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Supplementary information

>OXA-51 CAC83905.2 beta-lactamase [*Acinetobacter baumannii*]

MNIKTLLITS AIFISACSPYIVTANPNHSASKSDEKA E KIKNLFNEVHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-409 NG_049698.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLITS AIFISACCSPYIVTANPNHSASKSDEKA E KIKNLFNEAHTTGVLVIQQGQTQQ
SYGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDA
MKASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYK
LANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIV
AFSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-95 T5A,V48A,I129M,P194Q KF724152.1 *Acinetobacter baumannii* Taiwan 16-JUL-2014

MNIKALLITS AIFISACSPYIVTANPNHSASKSDEKA E KIKNLFNEAHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAMPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-95* T5A,L7F,V48A,Q107K P194Q DQ519089.1 *Acinetobacter baumannii* Singapore 28-MAR-2007

MNIKALFLITS AIFISACSPYIVTANPNHSASKSDEKA E KIKNLFNEAHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-256 T5A,V48A,P194Q KF057028.1 *Acinetobacter baumannii* USA 25-FEB-2014

MNIKALLITS AIFISACSPYIVTANPNHSASKSDEKA E KIKNLFNEAHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-259 T5A,V48A,P194Q NG_049554.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLITS AIFISACSPYIVTANPNHSASKSDEKA E KIKNLFNEAHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-260 T5A,L6H,E36V,V48A,Q107K,P194Q,D225N NG_049556.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKAHLLITS AIFISACSPYIVTANPNHSASKSDVKA E KIKNLFNEAHTTGVLVIQQGQTQQS
YGN DLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM

KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-206 T5A,E36V,V48A,Q107K,P130S,P194Q,D225N AB634250.1 *Acinetobacter*
baumannii Japan 22-NOV-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-217 T5A,T24S,V48A,E100A,D117N,K146N,P194Q,D225N JN603240.1
Acinetobacter baumannii UK 27-MAR-2012

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTAVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-881 T5A,V48A,G90S,Q107K,D117N,A126T,K146N,P194Q MN476921.1
Acinetobacter baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KTSAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-722 T5A,V48A,T50I,Q107K,D117N,K146N,P194Q,S246T NG_062334.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHITGVLVIQQGGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAMK
ASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFTL
NLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-700 T5A,A25T,V48A,Q107K,A156T,V168M,P194Q,G240E NG_062322.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLMGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQENIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-694 T5A,T24S,V48A,G52C,D117N,K146N,P194Q,D225N NG_062316.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTCVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-690 T5A,E36K,V48A,D105N,V131I,K146N,P194Q,D223N,D225N NG_062312.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWNVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-744 T5A,A12T,A31T,V48A,V101I,D157V,P194L,I263M MK105931.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSLKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSLN
LEMKKGIPSSVRKEMTYKSLEQLGIL

>OXA-536 T5A,E36V,V48A,E92V,Q107K,P194Q,D225N KX859240.1 Acinetobacter
baumannii Germany 28-SEP-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLVHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-336 T5A,E36V,V48A,Q107K,I173N,P194Q,D225N NG_049628.1 Acinetobacter
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKNTTPQQEAQFAYKL
ANKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-254 T5A,E36V,V48A,Q107K,P130T,P194Q,D225N NG_049549.1 Acinetobacter
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAITVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-248 T5A,E36D,V48A,Q57H,Q107E,D117N,I129M,P194Q,D225N NG_049543.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDAM
KASAMPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-127 T5A,E36V,V48A,Q107K,L167Q,P194Q,D225N NG_049426.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWQVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-379 T5A,A31T,V48A,D105N,K146N,V151I,P194Q,G221E NG_049670.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWEWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-174 T5A,E36V,V48A,Q107K,L167V,P194Q,D225N,Q270K HM113560.1
Acinetobacter baumannii Taiwan 27-OCT-2010

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEKLIL

>OXA-150 T5A,T24S,V48A,D117N,K146N,R150H,P194Q,D225N GQ853681.1
Acinetobacter baumannii UK 31-AUG-2011

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKHVGYNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-110 T5A,E36D,V48A,Q57H,Q107E,D117N,I129L,P194Q,D225N EF650036.1
Acinetobacter baumannii UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDAM
KASALPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-107 T5A,E36D,V48A,Q57H,Q107E,D117N,L167V,P194Q,D225N EF650033.1
Acinetobacter baumannii UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-77 T5A,T24S,V48A,D117N,A136P,K146N,P194Q,D225N AY949202.1 *Acinetobacter baumannii* France 26-MAR-2005

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-873 T5A,P27S,E36D,V48A,Q57H,D105N,K146N,P194Q NG_066735.1 *Acinetobacter baumannii* USA 25-OCT-2019

MNIKALLLITSAIFISACSPYIVTANSNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-872 T24S,V48A,D117N,G140R,K146N,A182T,P194Q,D225N MN476911.1
Acinetobacter baumannii Germany 01-OCT-2019

MNIKTLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIRLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFTYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-714 T5A,T24S,E36D,V48A,Q57H,Q107E,D117N,P194Q,D225N NG_062342.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-528 T5A,L7S,E36D,V48A,Q57H,D105N,K146N,P194Q KX599407.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-386 N2K,T5A,T24S,V48A,D117N,K146N,P194Q,D225N NG_049677.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-371 T5A,E36D,V48A,Q57H,Q107E,D117N,P194Q,D225N,Q237K NG_049662.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM

KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVKPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-402 T5A,E36K,V48A,D105N,K146N,P194Q,D198H,Q237R NG_049691.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQHEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVRPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-316 K4Q,T5A,T24S,V48A,Q107K,K125E,P194Q,D225N,Q239H KF057033.1
Acinetobacter baumannii USA 25-FEB-2014

MNIQALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
EASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVPQPHGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-176 T5A,E36V,V48A,G106S,Q107K,L167V,P194Q,D225N HM113562.1
Acinetobacter baumannii Taiwan 27-OCT-2010

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDSKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-124 T5A,E36D,V48A,Q57H,D105N,K146N,D157H,P194Q NG_049423.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNAHIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-426 T5A,T24S,V48A,L69F,D117N,K146N,P194Q,K195E,D225N KM588354.1
Acinetobacter baumannii China 05-FEB-2015

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLFARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQEVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-425 T5A,E36V,V48A,F82L,Q107K,I129L,P194Q,D225N KM588353.1
Acinetobacter baumannii China 05-FEB-2015

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTLKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASALPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL

ANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-390 T5A,E36D,N46T,V48A,Q57H,D105N,K146N,P194Q NG_049681.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFTEAHTTGVLVIHQGGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-199 T5A,E36V,V48A,Q107K,P130R,P194Q,D225N HQ637466.1 *Acinetobacter baumannii* China 27-JUN-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-109 T5A,E36V,V48A,Q107K,P130Q,P194Q,D225N EF650035.1 *Acinetobacter baumannii* UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-800 T5A,T24S,V48A,D117N,K146N,P194Q,D22N,P256S, K266R MK645912.1
Acinetobacter baumannii Giessen 30-MAR-2019

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-703 T5A,L8F,E36D,V48A,Q57H,D105N,K146N,V168M,P194Q MK011163.1
Acinetobacter baumannii Germany 15-OCT-2018

MNIKALLFITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLMGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-759 T5A,E36D,V48A,H49Q,Q57H,D105N,K146N,P194Q MK105948.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>KY126229.1 T5A,T24S,V48A,L110X,D117N,K146N,P194Q,D225N,G233E *Acinetobacter baumannii* Spain 26-MAR-2017

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRXFPEWEKNMTLGDM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTWVWVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-261 T5A,L8F,S30N,E36D,V48A,Q57H,D105N,K146N,P194Q NG_049557.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLFITSAIFISACSPYIVTANPNHNASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-403 T5A,N28H,E36D,V48A,Q57H,Q107E,D117N,P194Q,D225N KJ920337.1
Acinetobacter baumannii Scotland 10-SEP-2014

MNIKALLLITSAIFISACSPYIVTANPHHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-117 T5A,T24S,V48A,D117N,K146N,P194Q,D225N,G233E GQ423625.1
Acinetobacter baumannii UK 08-SEP-2009

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTWVWVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-131 T5A,E36V,V48A,Q107K,I129V,P194Q,D225N,P226Q EU547446.1 *Acinetobacter baumannii* UK 04-AUG-2009

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAVPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNQQVGWLTGWVWVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-80 T5A,E36V,V48A,Q107K,P130L,P194Q,D225N EU019535.1 *Acinetobacter baumannii* UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVWVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-89 P20H,T24S,V48A,D117N,K146N,A182T,P194Q,D225N DQ445683.1
Acinetobacter baumannii Argentina 07-AUG-2006

MNIKTLILLITSAIFISACSHYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-854 T5A,D35E,E36D,V48A,Q57H,Q107E,D117N,P194Q,D225N MN476891.1
Acinetobacter baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSEDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-718 T5A,A25T,V48T,Q57H,D105N,K146N,P194Q,D225T NG_062330.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNETHHTTGVLVIHQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAMK
ASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-706 T5A,E36K,V48A,D105N,K146N,S193G,P194Q,D198H NG_062328.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFGQKVQHEVQSMLFIEEKNGNKIYAKSGWGWVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-525 T5A,E36V,V48A,V77L,Q107K,P130S,P194Q,D225N KX599406.1 Acinetobacter
baumannii USA 01-AUG-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYLPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-234 T5A,E36V,V48A,Q107K,P193Q,W222L,D225N NG_050607.1 Acinetobacter
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGLDVNPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-406 T5A,E36K,V48A,D105N,P194Q NG_049695.1 Acinetobacter baumannii USA 08-
JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM

KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>LN868200.1 T5A,V48A,M124I,P194Q,E199K *Acinetobacter baumannii* Germany 24-JUL-2015

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDKVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-391 T5A,E36K,D105N,K146N,P194Q KJ427797.1 *Acinetobacter baumannii* Germany 01-APR-2014

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-532 T5A,V48A,D117N,K146N,P194Q KX609247.1 *Acinetobacter baumannii* USA 02-AUG-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-855 T5A,V48A,D105N,K146N,P194Q MN476892.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-121 T5A,S11N,V48A,A96T,F111C KF057027.1 *Acinetobacter baumannii* USA 25-FEB-2014

MNIKALLLITNAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLCPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-203 T5A,Q107K,D117N,K146N,P194Q HQ998857.1 *Acinetobacter baumannii* UK 09-FEB-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-241 T5A,T24I,V48A,R71H,A96T JX025021.1 *Acinetobacter baumannii* Germany 23-
APR-2013

MNIKALLLITSAIFISACSPYIVIANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-385 T5A,V48A,G90S,T98A,P194Q KF986253.1 *Acinetobacter baumannii* Spain 07-
APR-2015

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATATEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-65 T5A,V48A,Q107K,P194Q,D225N AY750908.1 *Acinetobacter baumannii* UK 18-
MAR-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-701 T5A,V48A,A182T,P194Q,D225N NG_062323.1 *Acinetobacter baumannii* USA
07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFTYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-709 T5A,T24S,V48A,D117N,P194Q NG_062337.1 *Acinetobacter baumannii* USA 07-
NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-769 T5A,T24S,V48A,K146N,P194Q MK105958.1 *Acinetobacter baumannii* Germany
07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-862 T5A,E36D,V48A,Q57H,P194Q MN476901.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-387 V23M,D117N,K146N,P194Q,D225N KJ173478.1 *Acinetobacter baumannii* Germany 05-MAR-2014

MNIKTLLITSAIFISACSPYIMTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGVWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-424 T5A,V48A,Q107E,D117N,P194Q KM588352.1 *Acinetobacter baumannii* China 05-FEB-2015

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-531 T5A,E36K,V48A,V101I,P194L KX599400.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPSLSKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVWLTGWVWQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-545 T5A,V48A,Q107K,L167V,P194Q KY674541.1 *Acinetobacter baumannii* Italy 07-MAR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLAN
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-879 T5A,A31T,V48A,V101I,P194L MN476919.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPSLSKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVWLTGWVWQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>AM690768.1 T5A,V48A,Q107K,I129L,P194Q *Acinetobacter baumannii* Italy 05-APR-2009

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASALPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-686 T5A,T24I,V48A,A96T,G159S NG_062308.1 *Acinetobacter baumannii* USA 07-
NOV-2018

MNIKALLLITSAIFISACSPYIVIANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAI PVYQDLARRIGLELMSKEVKRVGYGNADISTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTL PFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-877 T5A,V48A,Q107K,P194Q,M251I MN476917.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEIKKGIPSSVRKEITYKSLEQLGIL

>OXA-123 T5A,E36K,V48A,D105N,K146N NG_049422.1 *Acinetobacter baumannii* USA 08-
JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-509 T5A,V48A,A96T,P130L KU692025.1 *Acinetobacter baumannii* Germany 16-FEB-
2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-745 T5A,A25T,V48A,Q57H,A96T NG_063849.1 *Acinetobacter baumannii* USA 17-
JAN-2019

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNETHHTTGVLVIHQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAI PVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTL PFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-761 T5A,V48A,P196Q,K253N MK105950.1 *Acinetobacter baumannii* Germany 07-
NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM

KASAIPVYQDLARRIGLEELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-763 T5A,A12T,V48A,G90S,D117N MK105952.1 *Acinetobacter baumannii* Germany
07-NOV-2018

MNIKALLITSTIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDM
KASAIPVYQDLARRIGLEELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-412 I3V,T5A,E36K,V48A,D105N,K146N NG_049700.1 *Acinetobacter baumannii* USA
08-JUN-2016

MNVKALLITSIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLEELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-180 T5A,V48A,M124I,P194Q HM570036.1 *Acinetobacter baumannii* Norway 30-
MAR-2011

MNIKALLITSIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAIK
ASAIPVYQDLARRIGLEELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-383 D117N,K146N,P194Q,D225N NG_049674.1 *Acinetobacter baumannii* USA 08-
JUN-2016

MNIKTLLLITSIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDM
KASAIPVYQDLARRIGLEELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-561 T5A,Q57H,A70T,K146E,S246T KY126240.1 *Acinetobacter baumannii* Spain 17-
APR-2017

MNIKALLITSIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIHQGQTQQS
YGNDLTRASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLEELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
TLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-524 T5A,E36V,V48A,A96T KX599402.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKALLITSIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLEELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-860 T5A,E36K,V101I,P194Q MN476897.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-313 T5A,V48A,A96T,P130Q KF057030.1 *Acinetobacter baumannii* USA 25-FEB-2014

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-344 T5A,E36K,V48A,P194Q KJ780075.1 *Acinetobacter baumannii* UK 08-OCT-2014

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-890 T5A,N26K,V48A,A96T NG_066752.1 *Acinetobacter baumannii* USA 25-OCT-2019

MNIKALLLITSAIFISACSPYIVTAKPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-242 P194Q,D225N,G240R JX025022.1 *Acinetobacter baumannii* Germany 23-APR-2013

MNIKTLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQRNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-740 T5A,A38G,V48A,G229S MK105927.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKGEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVSWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-742 T50S,Q107K,P194Q,D225N MK105929.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHSTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-857 H93Y,P194Q,D225N MN476894.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEYHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-717 T5A,V48A,A96T,K146N NG_062345.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-687 T5A,T24I,V48A,A96T MK105933.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVIANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-866 T5A,V48A,A96T,Q107K MN476905.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-374 T5A,V48A,A96T,Q239K NG_049665.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPKGNIVAFS
LNLEMKGIPSSVRKEITYKSLEQLGIL

>OXA-523 T5A,V48A,A96T,I129F KX599401.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAFPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL

ANKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-90 T5A,V48A,Q107K,P194Q EU433382.1 *Acinetobacter baumannii* Italy 31-MAR-2010

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-682 T5A,V48A,G90S,D225N NG_062304.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-719 D117N,K146N,P194Q NG_062331.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-738 T5A,E36D,V48A,Q57H MK105925.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-179 T5A,V48A,P130A HM570035.1 *Acinetobacter baumannii* Norway 30-MAR-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-400 A156T,V168M,P194Q KJ780078.1 *Acinetobacter baumannii* UK 08-OCT-2014

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLMGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-407 Q57H,A70T,K146E,S246T NG_049696.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIHQGGQTQQSY
GNDLTRASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVAF
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-856 T5A,T24S,V48A,K146N NG_066718.1 *Acinetobacter baumannii* USA 25-OCT-2019

MNIKALLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-559 T5A,V48A,D68G KY126237.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNGLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-389 E113K,P194Q,E199K NG_049680.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDKVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-113 T5A,V48A,A96T,L167V EF653400.1 *Acinetobacter baumannii* France 27-OCT-2007

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-312 T5A,V48A,A96T,I129L KF057029.1 *Acinetobacter baumannii* USA 25-FEB-2014

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASALPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-404 F14L,N28P NG_049693.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAILISACSPYIVTANPPHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPIVYQDLARRIGLELMSEEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN

KTLFPSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-556 T5A,A31D,V48A KY126231.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSDSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-365 T24S,V48A,K146N,I263M NG_049658.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-413 H93Y,P194Q NG_049701.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEYHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-64 T5A,A38G,V48A AY750907.1 *Acinetobacter baumannii* UK 18-MAR-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKGEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-558 T5A,V48A,A96T,V235I KY126234.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-886 S34F,P94Q MN476926.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKTLLITSAIFISACSPYIVTANPNHSASKFDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-111 T24S,V48A,K209M EF650037.1 *Acinetobacter baumannii* UK 10-OCT-2007

MNIKTLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEMNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-510 T5A,V48A,K188N KU710721.1 *Acinetobacter baumannii* UK 30-JUL-2016

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NNTLPFSPKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-314 T5A,V48A,Q107K KF057031.1 *Acinetobacter baumannii* USA 25-FEB-2014

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-262 P130S,P180S NG_049558.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGSLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-71 T5A,V48A,A96T AY859528.1 *Acinetobacter baumannii* France 29-SEP-2005

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-691 T5A,V48A,Q107K,V236I NG_062313.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKALLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVIQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-771 K146N,P194Q MK105961.1 *Acinetobacter baumannii* Germany 07-NOV-2018

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-891 I3V,T5A,V48A,Q107K MN476931.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNVKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-689 T51K,P130A NG_062311.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTKGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-223 H93Y,D225N JN248564.1 *Acinetobacter baumannii* Germany 01-JUN-2012

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEYHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-99 Q57R,K209M DQ888718.1 *Acinetobacter baumannii* Japan 14-JAN-2010

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIRQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSPKVQDEVQSMLFIEEMNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-696 V101I,P94L NG_062318.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFSLKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-910 T51K,T119A NG_068028.1 *Acinetobacter baumannii* USA 11-MAR-2020

MNIKTLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTKGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMALGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-414 T5A,Q107K NG_049702.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-692 T50S,T130I NG_062314.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHSTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAITVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-828 E147K,K172N MK913672.1 *Acinetobacter baumannii* Germany 21-MAY-2019

MNIKTLLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKVKRVGYGNADIGTQVDNFWLVGPLNITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-864 D117N,D225N MN476903.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKTLLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-122 T5A,T264A NG_049421.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEIAYKSLEQLGIL

>OXA-338 T5A,V48A NG_049630.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-688 P194Q NG_062310.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-712 V48A,Q107K NG_062340.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLLTSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-704 G221R,T232X NG_062326.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWRWDVDPQVGWLXGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-376 H93Y NG_049667.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEYHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-377 T51K NG_049668.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTKGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-555 T5A KY126224.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-880 D68N MN476920.1 *Acinetobacter baumannii* Germany 01-OCT-2019

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-219 L167V NG_049517.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-411 A96T NG_049699.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKTLLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKTTTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVWPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-132 I263M EU547447.1 *Acinetobacter baumannii* UK 04-AUG-2009

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEMTYKSLEQLGIL

>OXA-693 A216T NG_062315.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYTKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-530 T50S KX599398.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHSTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-702 L85I NG_062324.1 *Acinetobacter baumannii* USA 07-NOV-2018

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMINALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>CP039520.1 *Acinetobacter baumannii* USA 30-APR-2019 T5A E36V V48A Q107K P130Q
P194Q W222L D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>CP035049.1 *Acinetobacter baumannii* USA 27-SEP-2019 T5A E36V V48A Q107K L167V
P175H P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITHQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>CP039341.1 *Acinetobacter baumannii* USA 22-APR-2019 T5A V48A Q107K I129V Q177K
P194Q W222L

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAVPYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQKEAQFAYKL

ANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGGLDVPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-115 LC382026.1 *Acinetobacter baumannii* Egypt 26-JUL-2018 T5A T10S I13A F14I
E36V N43H V48A A87P Q107K K108Q P130L K149N L167V P194Q D225N

MNIKALLLISAIISACSPYIVTANPNHSASKSDVKAEEKIKHLFNEAHTTGVLVIQQGQTQQSYG
NDLARASTEYVPASTFKMLNPLIGLEHHKATTTEVFKWDGKQRLFPEWEKDMTLGDAMKA
SAILVYQDLARRIGLELMSKEVNRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLANK
TLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-697 NG_062319.1 *Acinetobacter baumannii* USA 07-NOV-2018 I3F K4Q T5A C18Y
H29Y V48A D117N K146N V151I P194Q D225N P256S K266R

MNFQALLLITSAIFISACSPYIVTANPNYSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKQRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYRSLEQLGIL

>OXA-263 NG_049559.1 *Acinetobacter baumannii* USA 08-JUN-2016 T5A H29Y V48A
H49Q T51R T61I A96T D105N D117N K146N P194Q

MNIKALLLITSAIFISACSPYIVTANPNYSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQIQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTTEVFKWNGQKRLFPEWEKNMTLGDAMK
ASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-829 MK913673.1 *Acinetobacter baumannii* Germany 21-MAY-2019 T5A E36V V48A
Q107K I129V P194Q W222L D225N P226L M251I

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAVPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGGLDVNLQVGWLTGWVVQPQGNIVAF
SLNLEIKKGIPSSVRKEITYKSLEQLGIL

>OXA-75 AY859529.1 *Acinetobacter baumannii* France 29-SEP-2005 K4Q T5A H29Y V48A
D117N K146N V151I P194Q D225N P256S K266R S267G

MNIQALLLITSAIFISACSPYIVTANPNYSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKQRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYRGLEQLGIL

>OXA-250 HE963771.1 *Acinetobacter baumannii* Poland 05-NOV-2012 T5A E36D V48A
Q57H Q107E D117N P130L P194Q W222L D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEIKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGGLDVNPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-683 NG_062305.1 *Acinetobacter baumannii* USA 07-NOV-2018 I3F K4Q T5A H29Y V48A D68N K146N V151I P194Q D225N P256S K266R

MNFQALLLITSAIFISACSPYIVTANPNYSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-798 MK645910.1 *Acinetobacter baumannii* Giessen 30-MAR-2019 T5A L6P L44I V48A H94Y K146N V151I P194Q D225N P256S K266R

MNIKAPLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNIFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHYKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAFS
LNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-173 HM113559.1 *Acinetobacter baumannii* Taiwan 27-OCT-2010 T5A E36V V48A Q107K I129V P194Q W222L D225N P226L

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAVPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKL
ANKTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGGLDVNLQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-384 NG_049675.1 *Acinetobacter baumannii* USA 08-JUN-2016 K4Q T5A V48A D117N K146N V151I P194Q D225N L249S P256S K266R

MNIQALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNSEMKGISSSVRKEITYRSLEQLGIL

>KY126225.1 *Acinetobacter baumannii* Spain 26-MAR-2017 T5A T24S E36D V48A Q57H G59X V101I D117N K146N P194Q D225N

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQXQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTEWVVPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-684 MK011152.1 *Acinetobacter baumannii* Germany 15-OCT-2018 T5A E36D V48A Q57H D117N K146N V151I P194Q D225N P256S K266R

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-772 MK105962.1 *Acinetobacter baumannii* Germany 07-NOV-2018 T5A L6P S16P L44I V48A E92K D117N K146N P194Q

MNIKAPLLITSAIFIPACSPYIVTANPNHSASKSDEKAEEKIKNIFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLKHKKATTTEVFKWDGQKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-868 MN476907.1 *Acinetobacter baumannii* Germany 01-OCT-2019 T5A E36D V48A
H49L Q57H Q107E D117N P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-92 DQ335566.1 *Acinetobacter baumannii* Greece 17-MAY-2007 T5A E36D V48A
Q57H Q107E D117N P194Q D225N W234S

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGSSVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>EU255294.1 *Acinetobacter baumannii* China 24-NOV-2007 T5A E36K V48A D107N
K146N P194Q D198H Q237R P256A

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQHEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVRPQPGNIVAF
SLNLEMKKGIASSVRKEITYKSLEQLGIL

>OXA-128 EU375515.1 *Acinetobacter baumannii* Italy 11-MAR-2009 T5A T24S V48A D68V
D117N K146N P194Q K195E D225N

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNVLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQEVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-178 HM113564.1 *Acinetobacter baumannii* Taiwan 15-JUN-2010 T5A E36V V48A
G106S Q107K P130L P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGSKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-507 KU551305.1 *Acinetobacter baumannii* Germany 31-JAN-2016 T5A E36D V48A
Q57H Q107E D117N P130L P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM

KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>MN476900.1 *Acinetobacter baumannii* Germany 01-OCT-2019 S11N T24S D117N K146N
A182T P194Q D225N

MNIKTLLITNAIFISACSPYIVSANPNHSASKSDEKAEEKIMLNALIGLEHHKATTTEVFKWDG
QKRLFPEWEKNMTLGDMKASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFW
LVGPLKITPQQEAQFTYKLANKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQ
VGWLTGWVVQPQGNIVAFSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-909 NG_068181.1 *Acinetobacter baumannii* USA 21-APR-2020 T5A E36D V48A
Q57H Q107E D117N P194Q D223Y D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDMK
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-865 MN476904.1 *Acinetobacter baumannii* Germany 01-OCT-2019 T5A L6P S16P
L44I V48A D117N K146N P194Q

MNIKAPLLITSAIFIPACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDMK
ASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-78 AY862132.1 *Acinetobacter baumannii* United Kingdom 20-DEC-2006 T5A T24S
V48A E100A D117N K146N P194Q D225N I255T

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTAVFKWDGKRLFPEWEKNMTLGDMK
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGTPSSVRKEITYKSLEQLGIL

>OXA-115* EU029998.1 *Acinetobacter baumannii* South Korea 26-JUL-2016 T5A E36V
V48A Q107K P130L L167V P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-112 EF650038.1 *Acinetobacter baumannii* United Kingdom 10-OCT-2007 T5A E36D
V48A Q57H Q107E D117N P194Q D225N S246P

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDMK
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
PLNLEMKKGIPSSVRKEITYKSLEQLGIL

>KJ584917.1 *Acinetobacter baumannii* France 02-APR-2015 K4Q T5A V48A D117N K146N V151I P194Q D225N P256S K266R

MNIQALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYRSLEQLGIL

>OXA-442 KP844571.1 *Acinetobacter baumannii* China 09-AUG-2015 T5A T24S V48A D117N K146N P194Q K195E D225N E250V

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQEVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLVMKKGIPSSVRKEITYKSLEQLGIL

>OXA-516 KU871391.1 *Acinetobacter baumannii* Germany 13-MAR-2016 T5A E36K V48A G59D D117N I129L K146N P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASALPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-388 NG_049679.1 *Acinetobacter baumannii* USA 08-JUN-2016 K4Q T5A N43Y V48A T61I D117N K146N V151I P194Q

MNIQALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKYLFNEAHTTGVLVIQQGQIQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-708 NG_062336.1 *Acinetobacter baumannii* USA 07-NOV-2018 T5A E36D V48A Q57H D105N K146N P194Q A216T D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYTKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-172 HM113558.1 *Acinetobacter baumannii* Taiwan 27-OCT-2010 T5A E36V V48A Q107K I129V P194Q W222L D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAVPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGGLDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-117* HM113563.1 *Acinetobacter baumannii* Taiwan 27-OCT-2010 T5A E36V V48A Q107K L167V P194Q E199G D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDGVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-201 HQ734812.1 *Acinetobacter baumannii* Germany 01-JUN-2012 T5A E36V V48A
Q107K P130Q L167V P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>JX865394.1 *Acinetobacter baumannii* United Arab Emirates 02-JAN-2014 T5A T24S K37N
V48A E100A D117N K146N P194Q D225N

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDENAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTAVFKWDGQKRLFPEWEKNMTLGDAM
KASAIQVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-430 NG_049717.1 *Acinetobacter baumannii* USA 08-JUN-2016 T5A E36D V48A
Q57H G90S Q107E D117N P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-776 MK105969.1 *Acinetobacter baumannii* Germany 07-NOV-2018 T5A D35E E36D
V48A Q57H Q107E D117N K146N P194Q

MNIKALLLITSAIFISACSPYIVTANPNHSASKSEDKAEIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM
KASAIQVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-888 MN476928.1 *Acinetobacter baumannii* Germany 01-OCT-2019 T5A E36K V48A
V55I G59D H93N P194Q Q270L

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLIIQQDQTQQSY
GNDLARASTEYVPASTFKMLNALIGLENHKKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLELLGIL

>OXA-84 DQ309276.1 *Acinetobacter baumannii* United Kingdom 25-FEB-2008 T5A E36V
V48A Q107K P130S V168A P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM

KASAI SVYQDLARRIGLELMSKEV KRVGYGNADIGTQVDNFWLAGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGN KIIYAKSGWGW DVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-79 EU019534.1 *Acinetobacter baumannii* United Kingdom 10-OCT-2007 T5A E36V
V48A Q107K P194Q W222G D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSKEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGN KIIYAKSGWGG DVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-144 FJ872530.1 *Acinetobacter baumannii* United Kingdom 08-NOV-2009 T5A T24S
V48A D117N K146N P194Q K195E M203I D225N

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAI PVYQDLARRIGLELMSNEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQEVQDEVQSILFIEEKNGN KIIYAKSGWGW DVNPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-375 NG_049666.1 *Acinetobacter baumannii* USA 08-JUN-2016 T5A V48A A70V
Q107K P112R K146N P194Q D225N

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLVRASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFREWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSNEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGN KIIYAKSGWGW DVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-8 K4Q,T5A,T24S,V48A,Q107K,P194Q,D225N,Q239H LC149494.1 *Acinetobacter*
baumannii Egypt 10-MAY-2016

MNIQALLLITSAIFISACSPYIVSANPNHSASKSDEKA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSKEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGN KIIYAKSGWGW DVNPQVGWLTGWVVQPHGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-94 K4Q,T5A,T24S,V48A,Q107K,P194Q,D225N,Q239H DQ519088.1 *Acinetobacter*
baumannii Singapore 28-MAR-2007

MNIQALLLITSAIFISACSPYIVSANPNHSASKSDEKA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSKEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGN KIIYAKSGWGW DVNPQVGWLTGWVVQPHGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-13 T5A,N26D,K37N,V48A,T81S,Q107K,P194Q,D225N LC156093.1 *Acinetobacter*
baumannii EgypT 09-JUN-2016

MNIKALLLITSAIFISACSPYIVTADPNHSASKSDENA EKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASSFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAI PVYQDLARRIGLELMSKEV KRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-66 T5A, E36V,V48A,Q107K,P194Q,D225N AY750909.1 *Acinetobacter baumannii* UK
18-MAR-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-67 T5A,A12T,A31T,V48A,V101I,P194L DQ491200.1 *Acinetobacter baumannii* UK 15-
MAY-2006

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSLKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSLN
LEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-68 T5A,T24S,V48A,D117N,K146N,P194Q,K195E,D225N AY750910.1 *Acinetobacter*
baumannii UK 18-MAR-2005

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQEVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-69 T5A, E36D,V48A,Q57H,Q107E,D117N,P194Q,D225N AY859527.1 *Acinetobacter*
baumannii France 29-SEP-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-70 T5A, E36k,V48A,D105N,K146N,P194Q,D198H AY750912.1 *Acinetobacter*
baumannii UK 18-MAR-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQHEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-76 T5A, E36V,V48A,Q107K,P194Q,D225N,Q270K AY949203.1 *Acinetobacter*
baumannii France 26-MAR-2005

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEKLIL

>OXA-82 T5A,E36V,V48A,Q107K,L167V,P194Q,D225N EU019536.1 *Acinetobacter* UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-66* T5A,E36V,V48A,Q107K,L167V,P194Q,D225N DQ987479.1 *Acinetobacter*
baumannii Taiwan 27-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-83 T5A,E36V,V48A,Q107K,I129L,P194Q,D225N DQ309277.1 *Acinetobacter*
baumannii UK 25-FEB-2008

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASALPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-86 A12T,A31T,V48A,T74I,V101I,P194L DQ149247.1 *Acinetobacter* *baumannii*
Turkey 08-AUG-2006

MNIKTLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASIEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSLKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSLN
LEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-87 A12T,A31T,V48A,T74I,V101I,P194L,V196A NG_049827.1 *Acinetobacter*
baumannii USA 08-JUN-2016

MNIKTLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASIEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSLKAQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSLN
LEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-88 T5A,E36K,V48A,Q107K,P194Q,D225N DQ392963.1 *Acinetobacter* *baumannii*
Singapore 28-MAR-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-91 T5A,T24S,V48A,D117N,K146N,P194Q DQ519086.1 *Acinetobacter* *baumannii*
Singapore 28-MAR-2007

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-93 T5A,A12T,V48A,G90S,K146N,P194Q,D225N DQ519087.1 *Acinetobacter*
baumannii Singapore 28-MAR-2007

MNIKALLLITSTIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-98 T5A,T24S,V48A,D117N,K146N,P194Q,D225N AM279652.1 *Acinetobacter*
baumannii ITALY 14-JUN-2008

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-100 T5A,A12T,A31T,V48A,V101I,P194Q AM231720.2 *Acinetobacter baumannii*
ITALY 22-FEB-2008

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPTVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLANK
TLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-104 T5A, V48A,Q107K,D117N,K146N,P194Q FR667694.2 *Acinetobacter baumannii*
PORTUGAL 06-NOV-2012

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-106 T5A,E36K,V48A,D105N,K146N,P194Q EF650032.1 *Acinetobacter baumannii*
UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-108 T5A,A25T,V48A,Q107K,A156T,L167V,P194Q EF650034.1 *Acinetobacter*
baumannii UK 10-OCT-2007

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM

KASAIPTYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-120 T5A,E36D,V48A,Q57H,V101I,P194Q,D225N HE963768.1 *Acinetobacter*
baumannii POLAND 05-NOV-2012

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-130 T5A,A25T,V48A,Q107K,A156T,P194Q EU547445.1 *Acinetobacter baumannii* UK
04-AUG-2009

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-148 T5A,E36K,V48A,T97S,D105N,K146N,P194Q,Q201K GQ853679.1
Acinetobacter baumannii UK 31-AUG-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKASTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVKSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-149 T5A,T24S,V48A,D117N,K146N,R150H,D225N GQ853680.1 *Acinetobacter*
baumannii UK 31-AUG-2011

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKHVGYNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-175 T5A, E36V,K42R,V48A,Q107K,L164V,P194Q,D225N HM113561.1
Acinetobacter baumannii Taiwan 27-OCT-2010

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIRNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWVVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-200 T5A, V48A,Q107K,P130L,P194Q,W222L HQ734811.1 *Acinetobacter baumannii*
Germany 01-JUN-2012

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGGLDVPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-202 T5A,E36V,V48A,Q107K,I129M,P194Q,D225N HQ734813.1 *Acinetobacter*
baumannii Germany 01-JUN-2012

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAMPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>oxa-208 T5A,E36D,V48A,Q57H,D105N,K146N,P194Q FR853176.1 *Acinetobacter*
baumannii UK 26-JUN-2011

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-216 T5A,F14S,V48A,M124I,P194Q FR865168.1 *Acinetobacter baumannii* UK 28-
MAR-2012

MNIKALLLITSAISISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAIK
ASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-249 T5A,A25T,V48A,Q107K,P130Q,A156T,P194Q HE963770.1 *Acinetobacter*
baumannii POLAND 05-NOV-2012

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-315 K4Q,T5A,T24S,V48A,Q107K,V131I,P194Q,D225N,Q239H KF057032.1
Acinetobacter baumannii USA 25-FEB-2014

MNIQALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPHGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-317 T5A,T24S,V48A,D117N,K146N,P194Q,D198E KF057034.1 *Acinetobacter*
baumannii USA 25-FEB-2014

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQEEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-337 K4T,T5A,E36D,V48A,Q57H,D105N,K146N NG_049629.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNITALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-339 T5A,E36D,V48A,D105N,K146N,P194Q NG_049631.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-340 T5A,T24S,V48A,D105N,K146N,P194Q NG_049632.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-341 T5A,L6P,L44I,V48A,P194Q,K266R NG_049633.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKAPLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNIFNEAHTTGVLVIQQGGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYRSLEQLGIL

>OXA-342 T5A,V48A,Q107K,P112R,P194Q NG_049634.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFREWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-343 T5A,A25T,V48A,Q107K,A156T,P194Q,D225N,V235I NG_049635.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWIVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-345 T5A,T24S,V48A,Q107K,K146N,P194Q NG_049637.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-346 T5A,E36D,V48A,Q57H,Q107E,D117N,P194Q,M203I NG_049638.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEEKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSILFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-378 LC382028.1 Acinetobacter baumannii Egypt 26-JUL-2018 K4Q T5A I15F V48A
T61I D117N K146N V151I K184Q P194Q K195T G233R

MNIQALLLITSAIFFSACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQIQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYQLA
NKTLPFSQTVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTTRWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-378* K4Q,T5A,V48A,T61I,D117N,K146N,V151I,P194Q NG_049669.1 Acinetobacter
baumannii USA 08-JUN-2016

MNIQALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQIQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLAN
KTLPFSLKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-380 T5A,E36D,V48A,Q57H,V101I,P194L NG_049671.1 Acinetobacter baumannii
USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLAN
KTLPFSLKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-381 T5A,E36K,V48A,L91F,A126V,P194Q NG_049672.1 Acinetobacter baumannii
USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGFEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KVSAIPTVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-382 T5A,S34T,E36K,V48A,D105N,K146N,A182T,P194Q NG_049673.1
Acinetobacter baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKTDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM

KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFTYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-401 T5A,V48A,G90S,T98A,P194Q,G254R KJ780076.1 *Acinetobacter baumannii* UK
08-OCT-2014

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATATEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKRIPSSVRKEITYKSLEQLGIL

>OXA-429 T5A,E36K,V48A,G59D,P194Q,Q270L NG_049715.1 *Acinetobacter baumannii*
USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLELLGIL

>OXA-431 T5A,T24S,A25T,V48A,D117N,K146N,P194Q NG_049718.1 *Acinetobacter*
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVSTNPNSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-432 T5A,K33R,E36D,V48A,Q57H,D105N,K146N,P194Q NG_049719.1 *Acinetobacter*
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASRSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-433 T5A,E36D,V48A,Q57H,D105N,K146D,P194Q NG_049720.1 *Acinetobacter*
baumannii USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSDEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-480 T5A,L8F,E36V,V48A,Q107K,P194Q,D225N NG_KR872296.1 *Acinetobacter*
baumannii Germany 03-NOV-2015

MNIKALLFITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-497 T5A,A31T,V48A,D117N,K146N,V151I,P194Q NG_049774.1 *Acinetobacter baumannii* USA 08-JUN-2016

MNIKALLLITSAIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-508 E36V,V48A,Q107K,P194Q,D225N KU596972.1 *Acinetobacter baumannii* China
03-FEB-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-511 T5A,I41N,V48A,Q107K,P194Q KU710720.1 *Acinetobacter baumannii* UK 30-
JUL-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-521 T5A,V48A,Q107K,P130L,L167I,P194Q KX462701.1 *Acinetobacter baumannii*
Germany 11-JUL-2016

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAILVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-529 T5A,A12T,A31T,V48A,V101I,R138H,P194Q, KX599405.1 *Acinetobacter baumannii* USA 01-AUG-2016

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMTLGDAMKA
SAIPTVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-554 T5A,E36D,V48A,Q57H,A79T,D105N,K146N,P194Q KY126221.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEIKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPTSTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-557 T5A,T24S,V48A,Q107K,P194Q,D225N,Q239H KY126232.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPHGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-560 T5A,E36D,V48A,Q57H,D105N,K146N KY126238.1 *Acinetobacter baumannii*
Spain 7-APR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-562 T5A,I15S,T24S,V48A,D117N,P194Q,D198E KY126241.1 *Acinetobacter baumannii* Spain 17-APR-2017

MNIKALLLITSAIFSSACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQEEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-654 T5A,E36V,V48A,Q107K,I129V,P194Q,D225N MH337646.1 *Acinetobacter baumannii* Australia 22-MAY-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAVPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKL
ANKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-680 T5A,V48A,G90S,K146N,P194Q,D225N MH878938.1 *Acinetobacter baumannii*
Germany 17-SEP-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-685 T5A,V48A,Q107E,D117N,P194Q,D225N NG_062307.1 *Acinetobacter baumannii*
USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-695 T5A,V48A,V53I,D105N,K146N,P194Q NG_062317.1 *Acinetobacter baumannii*
USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGILVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAMK
ASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-698 NG_062320.1 T5A,T24S,E36D,V48A,D117N,K146N,P194Q *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-699 T5A,V48A,H93R,P194Q,D225N NG_062321.1 *Acinetobacter baumannii* USA 07-
NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLERHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-705 T5A,V48A,T50I,Q107K,D117N, K146N, P194Q NG_062327.1 *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHITGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAMK
ASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-707 T5A,E36K,V48A,H94Y,P194Q NG_062329.1 *Acinetobacter baumannii* USA 07-
NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHYKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-710 T5A,E36K,V48A,D105N,K146N,P194Q,D225N NG_062338.1 *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-711 T5A,E36K,V48A,Q63K,D117N,K146N,P194Q,D225N NG_062339.1
Acinetobacter baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQKSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAMK

ASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-713 V48A,G90S,K146N,P194Q,D225N NG_062341.1 *Acinetobacter baumannii* USA
07-NOV-2018

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-715 T24S,V48A,D117N,K146N,A182T,P194Q,D225N NG_062343.1 *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKTLILLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFTYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-716 T5A,E36K,V48A,V55I,G59D,P194Q,Q270L NG_062344.1 *Acinetobacter*
baumannii USA 7-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLIIQQDQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLELLGIL

>OXA-720 T5A,V48A,Q107K,D117N,A126T,K146N,P194Q NG_062332.1 *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KTSaipVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-721 T5A,T24S, V48A,T51M, D105N, K146N, P194Q NG_062333.1 *Acinetobacter*
aumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTMGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-723 T5A,E36K,V48A,G59D,L91F,P194Q,Q270L NG_062335.1 *Acinetobacter*
baumannii USA 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGFEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLELLGIL

>OXA-733 T5A,E36V,V48A,Q107K,I129F,P194Q,D225N MH780076.1 *Acinetobacter*
baumannii Germany 06-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAFPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKL
ANKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGVLTGWVVPQGNIVA
FSLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-734 D117N,K146N,P194Q,D225N,Q270L MH780092.1 *Acinetobacter*
baumannii France 06-NOV-2018

MNIKTLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEVHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGVLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLELLGIL

>OXA-735 T5A,E36K,V48A,G59D,E147Q,P194Q,P238S MH780093.1 *Acinetobacter*
baumannii France 06-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKQVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-739 MG717458.1 T5A,V48A,D105N,K146N,A156V,P194Q *Acinetobacter*
baumannii France 20-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNVDIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-739* T5A,V48A,D105N,K146N,A156V,P194Q,T232X MK105926.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNVDIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGVLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-741 T5A,V48A,P194Q,D225N,P256S,K266R MK105964.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPNPQVGVLTGWVVPQGNIVAF
SLNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-743 D35V,T50S,Q107K,P194Q,D225N MK105930.1 *Acinetobacter baumannii*
Germany 07-NOV-2018

MNIKTLILLITSAIFISACSPYIVTANPNHSASKSVEKAEEKIKNLFNEVHSTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-746 T5A,E36K,V48A,H94Y,K146N,P194Q,D225N MK105934.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-747 T5A,N28I,V48A,Q107K,D117N,K146N,P194Q MK105935.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPIHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAMK
ASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-748 T5A, V48A, Q107K,D117N, K146N,R150H, P194Q MK105937.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKHVGYNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-749 T5A,V48A,Q107K,D117N,K146N,D157N,P194Q MK105938.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNANIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-750 T5A,V48A,Q107K,D117N,K146N,P194Q,V259I MK105939.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSIRKEITYKSLEQLGIL

>OXA-751 T5A,P27L,E36K,V48A,D105N,K146N,P194Q MK105940.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANLNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAMK
ASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-752 T5A,E36K,I41N,V48A,D105N,K146N,P194Q MK105941.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-753 T5A,E36K,V48A,Q59D,D105N,K146N,P194Q MK105942.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-754 T5A,E36K,V48A,D105N,D117N,K146N,P194Q,D225N MK105943.1
Acinetobacter baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKNMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-755 T5A,E36K,V48A,M84I,D105N,K146N,P194Q,V236I MK105944.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKILNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAMK
ASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLFPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVIQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-756 T5A,E36K,V48A,H94Y,D105N, P194Q, D225N MK105945.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHYKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-757 T5A,E36D,V48A,Q57H,V101I,T119P, P194Q,D225N MK105946.1 *Acinetobacter*
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWDGQKRLFPEWEKDMPLGDAMK

ASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-758 T5A,A25T,V48A,Q107K,A156T,V168M,P194Q,G272S MK105947.1
Acinetobacter baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLMGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLSIL

>OXA-760 T5A,E36D,V48A,Q57H,D105N,K146N,P194Q,E208K MK105949.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEKKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-762 T5A,L8F,E36D,V48A,Q57H,D105N,K146N,P194Q MK105951.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLFITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-764 N2T, T5A,T24S,V48A, D105N, K146N, P194Q,V235I MK105953.1 Acinetobacter
baumannii Germany 07-NOV-2018

MTIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWIVVPQGNIVAFS
LNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-765 T5A,A31T,V48A,D105N,K146N,P194Q MK105954.1 Acinetobacter baumannii
Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-766 T5A,V48A,Q107K,P112R,P194Q,E269D MK105955.1 Acinetobacter baumannii
Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFREWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-767 T5A,A25T,V48A,Q107K,A156T,P194Q,D225N,V235I,L247F MK105956.1
Acinetobacter baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNTDIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWIVQPQGNIVAFS
FNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-768 T5A,E36K,V48A,P194Q,D223G MK105957.1 Acinetobacter baumannii Germany
07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-770 T5A,T24S,V48A,Q107K,K146N,P194Q,D225N MK105959.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-773 T5A,D35N,E47K,V48A,K95R,K146N,P194Q MK105963.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSNEKAEEKIKNLFNKAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-774 T5A,V48A,D117N,Q107K,K146N,P194Q,D225N MK105966.1 Acinetobacter
baumannii Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-775 T5A,E36K,V48A,T119A,T174A,P194Q MK105967.1 Acinetobacter baumannii
Germany 07-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMALGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPKIAPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-781 T5A,V48A,G90S,D225N,P256S,K266R MG717456.1 *Acinetobacter baumannii*
France 20-NOV-2018

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-782 T5A,A25T,V48A,K95R,K146N,P194Q MG717457.1 *Acinetobacter baumannii*
France 20-NOV-2018

MNIKALLLITSAIFISACSPYIVTTNPNSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-797 T5A,V48A,H94R,Q107K,P194Q MK645223.1 *Acinetobacter baumannii* Taiwan
30-MAR-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-799 T5A,A25T,V48A,A87P,K95R,K146N, P194Q MK645911.1 *Acinetobacter*
baumannii Giessen 30-MAR-2019

MNIKALLLITSAIFISACSPYIVTTNPNSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNPLIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-831 T5A,V48A,Q107K,P130Q,P194Q,D225N MK933721.1 *Acinetobacter baumannii*
France 21-MAY-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-852 T5A,V48A,Q107K,P112R,K146N,P194Q,D225N MN476889.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIQVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWVDVNPQVGWLTGWVVPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-853 T5A,E36D,V48A,Q57H,Q107E,D117N,P194Q MN476890.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGEKRLFPEWEKNMTLGDM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-858 T5A,L6H,E36K,V48A,D105N,K146N,P194Q MN476895.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKAHLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-859 T5A,E36K,V48A,G59D,D122Y MN476896.1 *Acinetobacter baumannii* Germany
01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGYAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-861 E47K,H93Y,P194Q,W230D MN476898.1 *Acinetobacter baumannii* Germany 01-
OCT-2019

MNIKTLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNKHVHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEYHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGGLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-863 T5A,I22L,D35N,E47K,V48A,K95R,K146N,P194Q MN476902.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYLV TANPNHSASKSNEKAEEKIKNLFNKAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHRATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-867 T24S,V48A,H93R,D117N,K146N,A182T,P194Q MN476906.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKTLLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLERHKATTTEVFKWDGQKRLFPEWEKNMTLGDM
KASAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFTYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDPQVGWLTGWVWQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-869 T5A,V48A,Q107K,M144I,P194Q,D225N MN476908.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM

KASAIPIVYQDLARRIGLELISKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-870 K4Q,T5A,T24S,V48A,D117N,K146N,P194Q MN476909.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIQALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-871 T51,V48A,G59Q,P12S,P194Q,D225N MN476910.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQDQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFSEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-874 T5A,A12T,A31T,V48A,V101I,D105N,K146N,P194Q MN476914.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWNGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSL
NLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-875 T5A,A12T,A31T,V48A,G59D,V101I,P194L MN476915.1 *Acinetobacter*
baumannii Germany 1-OCT-2019

MNIKALLLITSTIFISACSPYIVTANPNHSTSKSDEKAEEKIKNLFNEAHTTGVLVIQQDQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEIFKWNGQKRLFPEWEKDMTLGDAMKA
SAIPVYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLANK
TLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVDPQVGWLTGWVVQPQGNIVAFSLN
LEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-876 T5A,E36V,V48A, Q107K,V131I,P194Q, D225N MN476916.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSQKVQDEVQSMLFIEEKNGNKIYAKSGWGWDVNPQVGWLTGWVVQPQGNIVAF
SLNLEMKKGIPSSVRKEITYKSLEQLGIL

>OXA-878 T5A,V48A,G90S,D163N,D225N,P256S,K266R MN476918.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALISLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAM
KASAIPIVYQDLARRIGLELMSKEVKRVGYGNADIGTQVNNFWLVGPLKITPQQEAQFAYKLA

NKTLPFSPKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGISSSVRKEITYRSLEQLGIL

>OXA-882 T5A,V48A,Q107K,P194Q,D225N,G240W MN476922.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGKKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQPGWNIVAF
SLNLEMKKGIPSSSVRKEITYKSLEQLGIL

>OXA-883 V48A,D105N,K146N,P194Q,D198H MN476923.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

MNIKTLLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWNGQKRLFPEWEKDMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQHEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSSVRKEITYKSLEQLGIL

>OXA-884 T5A,L6P,L44I,V48A,P194Q,D225N MN476924.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

MNIKAPLLITSAIFISACSPYIVTANPNHSASKSDEKAEEKIKNIFNEAHTTGVLVIQQGQTQQSY
GNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDAMK
ASAIPTYQDLARRIGLELMSKEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLAN
KTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVNPQVGWLTGWVVPQPGNIVAFS
LNLEMKKGIPSSSVRKEITYKSLEQLGIL

>OXA-885 T5A ,E36D,V48A,Q57H,D117N,K146N,V151I,P194Q,V236I MN476925.1
Acinetobacter baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDDKAEEKIKNLFNEAHTTGVLVIHQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKNMTLGDAM
KASAIPTYQDLARRIGLELMSNEVKRIGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLPFSSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVIQPGNIVAFS
LNLEMKKGIPSSSVRKEITYKSLEQLGIL

>OXA-887 T5A,E36K,V48A,A123V,K146N,P191S,P194Q MN476927.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDKKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
YGNDLARASTEYVPASTFKMLNALIGLEHHKATTTEVFKWDGQKRLFPEWEKDMTLGDVM
KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
NKTLFSQKVQDEVQSMLFIEEKNGNKKIYAKSGWGWDVDPQVGWLTGWVVPQPGNIVAF
SLNLEMKKGIPSSSVRKEITYKSLEQLGIL

>OXA-889 T5A,V48A,V53I,Q107K,S145Y,P194Q,D225N MN476929.1 *Acinetobacter*
baumannii Germany 01-OCT-2019

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>OXA-892 T5A,V48A,V53I,Q107K,P194Q,D225N MN476932.1 *Acinetobacter baumannii*
Germany 01-OCT-2019

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>OXA-916 T5A,E36V,V48A,Q107K,P130A,P194Q,D225N NG_068510.1 *Acinetobacter*
baumannii USA 21-MAY-2020

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>EU255295.1 T5A,A25T,V48A,Q107K,A156T,V168M,P194Q *Acinetobacter baumannii*
China 24-NOV-2007

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>KY126228.1 T5A,E36V,V48A,E92X,Q107K,P194Q,D225N *Acinetobacter baumannii* Spain
26-MAR-2017

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>KJ584919.1 T5A,T24S,V48A,T98A,D117N,K146N,P194Q,L274- *Acinetobacter baumannii*
France 02-APR-2015

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>KY126229.1 T5A,T24S,V48A,L110X,D117N,K146N,P194Q,D225N,G233E *Acinetobacter*
baumannii Spain 26-MAR-2017

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>CP039520.1 *Acinetobacter baumannii* USA 30-APR-2019 T5A E36V V48A Q107K P130Q
P194Q W222L D225N

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>CP035049.1 *Acinetobacter baumannii* USA 27-SEP-2019 T5A E36V V48A Q107K L167V
P175H P194Q D225N

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>CP039341.1 *Acinetobacter baumannii* USA 22-APR-2019 T5A V48A Q107K I129V Q177K
P194Q W222L

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>EU255294.1 *Acinetobacter baumannii* China 24-NOV-2007 T5A E36K V48A D107N
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>KJ584917.1 *Acinetobacter baumannii* France 02-APR-2015 K4Q T5A V48A D117N K146N V151I P194Q D225N P256S K266R

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>JX865394.1 *Acinetobacter baumannii* United Arab Emirates 02-JAN-2014 T5A T24S K37N V48A E100A D117N K146N P194Q D225N

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>EU255295.1 T5A,A25T,V48A,Q107K,A156T,V168M,P194Q *Acinetobacter baumannii*
China 24-NOV-2007

MNIKALLLITSAIFISACSPYIVTTNPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
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>KY126228.1 T5A,E36V,V48A,E92X,Q107K,P194Q,D225N *Acinetobacter baumannii* Spain
26-MAR-2017

MNIKALLLITSAIFISACSPYIVTANPNHSASKSDVKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
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>KJ584919.1 T5A,T24S,V48A,T98A,D117N,K146N,P194Q,L274- *Acinetobacter baumannii*
France 02-APR-2015

MNIKALLLITSAIFISACSPYIVSANPNHSASKSDEKAEEKIKNLFNEAHTTGVLVIQQGQTQQS
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KASAIPTYQDLARRIGLELMSNEVKRVGYGNADIGTQVDNFWLVGPLKITPQQEAQFAYKLA
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Supplementary Tables

Supplementary table 1. Binding affinity and nonbonded interaction between variant (Oxa-132) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of hydrogen bonds	Interacting hydrogen bonds with receptor (H-bonds lowest distance (Å°))
Ampicillin	-6.5	5	LYS58, LYS58, SER193, SER232, ARG235 (2.33494)
Cefaclor	-6.2	5	GLY229, ARG235, ARG235 (2.04604), SER193, LYS228
Imipenem	-6.0	8	LYS58, LYS58, TRP195, ARG235, ARG235, LYS100, GLY194, SER193 (2.00989)
aztreonam	-6.3	7	LYS58, LYS58, GLY229, ARG235, ARG235 (2.14547), ALA101, SER102
DB04293	-6.9	4	GLY229 (1.97079), ARG235, ARG235, LYS228
Cefotaxime	-6.5	8	LYS58, ILE104, TRP195, GLY229, SER232, ARG235 (2.0134), SER193, SER102
Doripenem	-7.2	8	LYS58, LYS58, TRP195, ARG235, ARG235, LYS100, SER193 (2.00989), GLY194

Supplementary table 2. Binding affinity and nonbonded interaction between variant (Oxa-219) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of hydrogen bonds	Interacting hydrogen bonds with receptor (H-bonds lowest distance (Å°))
Ampicillin	-6.1	5	SER193, TRP195, ARG235, LYS236, GLU88 (2.03331)
Cefaclor	-5.9	6	LYS58 (2.33949), ARG235, ARG235, GLU88, SER102, SER232
Imipenem	-5.6	7	SER102, SER193, SER232 (2.02659), ARG235, LYS100, GLU183, ALA191
aztreonam	-6.2	10	LYS58, SER102, LYS192, SER193, SER193, ALA101, LYS100, GLU90, SER102 (1.80921), LYS236
DB04293	-6.6	7	SER102, TRP195, ARG235, LYS236 (2.1159), GLU88, GLU88, SER193
Cefotaxime	-6.3	7	LYS58, SER102, TRP195, LYS236 (1.98317), SER102, SER102, SER193
Doripenem	-6.6	11	LYS58, SER102, SER193, SER232, ARG235, LYS236, LYS100(1.95832), LYS100, ALA191, GLU88, ALA101

Supplementary table 3. Binding affinity and nonbonded interaction between variant (Oxa-377) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-6.3	4	VAL143, VAL143, LEU142 (2.14178), GLY144
Cefaclor	-6.1	5	LYS184, LYS184, ASN185, LYS236 (1.96478), LYS236
Imipenem	-5.7	6	GLN108, GLN108, GLN202 (2.45364), PRO201, TRP195, GLY144
aztreonam	-6.7	10	ASN1, SER5, SER5(1.95234), LYS8, GLN33, GLN38, SER5, GLN212, HIS4 , SER5
DB04293	-6.3	3	GLN35 (2.115), GLN33, HIS4
Cefotaxime	-5.5	7	GLN202, GLY229(1.97786), TRP195, GLY144, PRO87, GLU88, VAL143
Doripenem	-6.2	5	GLN35, GLN212, GLN214, GLN35 (2.00432), GLN35

Supplementary table 4. Binding affinity and nonbonded interaction between variant (Oxa-411) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-6.0	3	ASP198 (2.09754), ASP200, ASP198
Cefaclor	-6.1	7	TYR190, TRP209, ASP173, GLN176, ALA161 (2.08954), ASN162, ASN162
Imipenem	-5.6	4	ASP80 (1.81052), ARG84, VAL76, VAL76
aztreonam	-5.8	6	ASN1, ASN1, HIS4 (1.98648), GLN212, GLN212, HIS4,
DB04293	-5.8	5	ARG84 (2.10649), ARG84, LEU85, VAL143, VAL143
Cefotaxime	-6.7	10	SER7, GLN212, GLN245 (2.06131), GLN245, HIS4, ASN1, SER5, SER5, SER7, GLN245
Doripenem	-5.9	6	ASP200, GLN202, GLN202 (2.07532), GLN202, TRP197, ASP198

Supplementary table 5. Binding affinity and nonbonded interaction between variant (Oxa-688) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-6.7	9	LYS58, SER193, TRP195, ARG235, ARG235, ALA101, SER102 (1.79804), SER102, LYS236
Cefaclor	-5.4	5	GLN33, GLN38, GLN212, GLN33 (1.78266), SER5
Imipenem	-6	8	LYS58, SER193 (1.88755), TRP195, ARG235, ARG235, GLU88, SER102, SER102
aztreonam	-6.3	7	SER193, ALA101, ALA191(1.97901), LYS100, ALA101, SER102, SER193
DB04293	-5.2	2	SER232 (2.76839), SER102
Cefotaxime	-5.9	6	SER193, TRP195, ARG235, ALA101(1.93084), LYS91, SER232
Doripenem	-6.4	9	SER102, SER193, TRP195, ARG235, ARG235 (1.82295), GLU183, GLU183, SER193, SER102

Supplementary table 6. Binding affinity and nonbonded interaction between variant (Oxa-693) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-6.2	5	SER193 (1.92016), TRP195, SER232, ARG235, SER193
Cefaclor	-5.3	5	LYS58, LYS58, TRP195 (2.07864), ALA103, TRP195
Imipenem	-5.7	9	SER193 (2.08029), TRP195, SER232, SER232, ARG235, GLU182, GLY194, LYS236, SER193
aztreonam	-6.5	8	SER102, SER193, SER193, ARG235, ARG235, LYS236, GLU182 (2.06809), SER193
DB04293	-5.5	6	GLN33, TYR40, GLN212 (2.27664), ASN216, GLN33, TYR40
Cefotaxime	-6.4	14	LYS58 (2.11063), SER193, TRP195, ARG235, ARG235, LYS236, LYS100, THR191, SER102, PRO105, SER193, TRP195, SER232, LYS236

Doripenem	-7	8	TRP195 (1.96963), TRP195, SER232, ARG235, ARG235, GLU182, LYS184, LYS184
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Supplementary table 7. Binding affinity and nonbonded interaction between variant (Oxa-702) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-6.2	8	ARG84, ARG84, ARG84, GLN108 (2.06639), ASN139, VAL143, LEU85, PRO87
Cefaclor	-6.4	6	ARG84, ARG84, ARG84 (2.21503), GLN108, GLN136, ASN139
Imipenem	-5.5	6	LYS8, GLN212 (2.1142), ASN216, ASN216, ASN216, LEU246
aztreonam	-6.2	6	ARG84, ARG84, GLN108, ARG84 (1.80251), TRP197, VAL199
DB04293	-5.6	1	ARG84 (2.58358)
Cefotaxime	-6.3	10	ARG84, ARG84, ARG84, GLN108, GLN108, ARG84, TRP197(1.94803), VAL199, ARG84, GLN136
Doripenem	-6.3	10	LYS8, LYS8 (2.15304), GLN33, GLN212, ASN216, ASN216, ASN216, GLY247, GLN214, GLY247

Supplementary table 8. Binding affinity and nonbonded interaction between variant (Oxa-880) of oxacillinase enzyme and established antibiotics.

Drugs	Binding Affinity	Number of H bond	Interacting H bond with receptor(H-bond lowest distance)
Ampicillin	-5.8	3	TRP197, GLN202 (2.05559), TRP195
Cefaclor	-5.3	4	TYR190 (2.13877), ALA161, GLN176, GLN176
Imipenem	-4.6	1	TRP197(2.02554)
aztreonam	-5.4	4	TYR190(2.13877), ALA161, GLN176, GLN176
DB04293	-5.6	4	VAL199(2.48084), TRP197, LYS147, TRP197
Cefotaxime	-5.7	4	TRP195(2.26084), TRP197, SER232, GLY229
Doripenem	-6.1	10	SER102, SER193, SER193, SER232, LYS100, GLU182, ALA191 (2.05305), SER193, SER193, LYS100

Supplementary figures

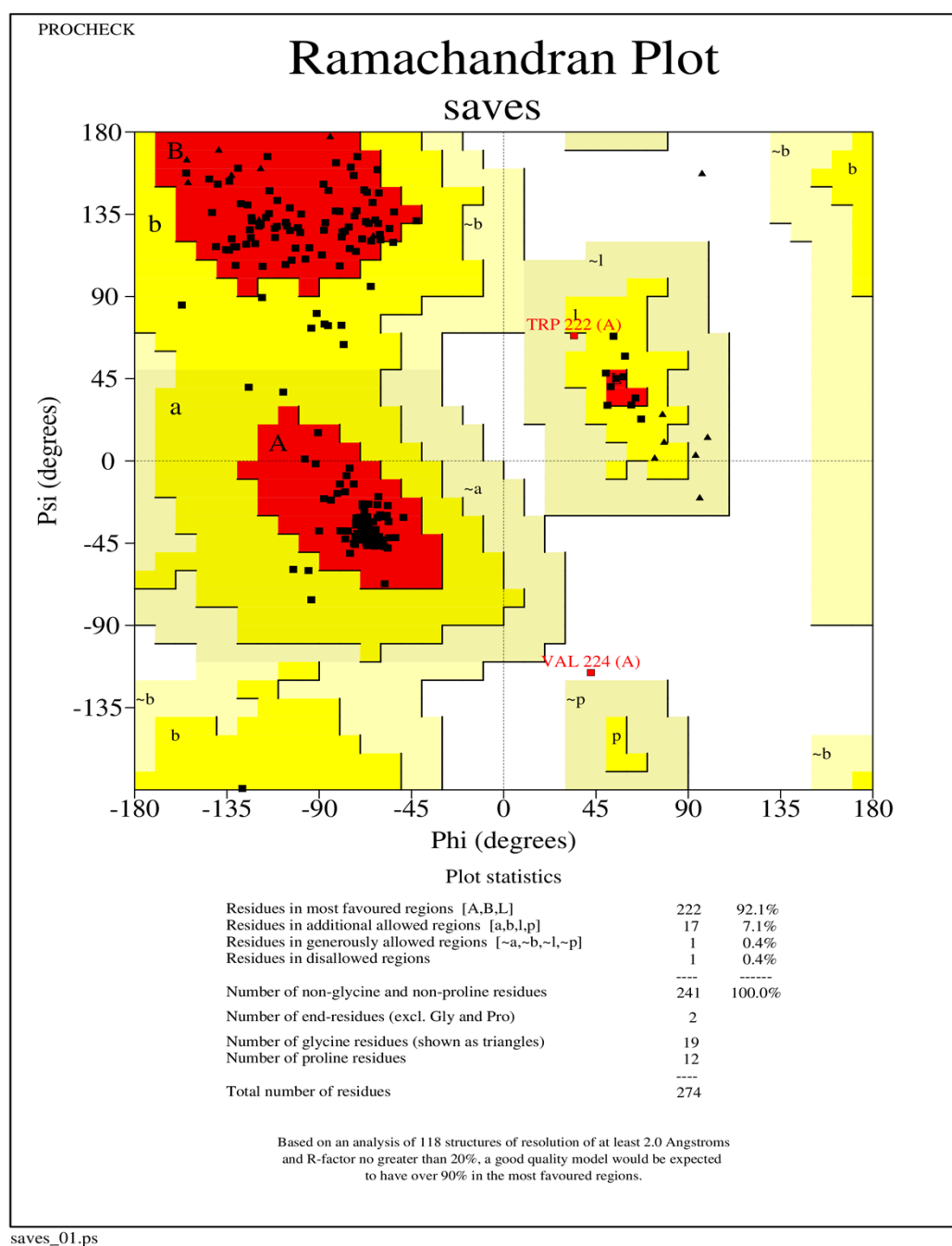


Figure 1. RAMACHANDRAN plot of Oxa-51 variant

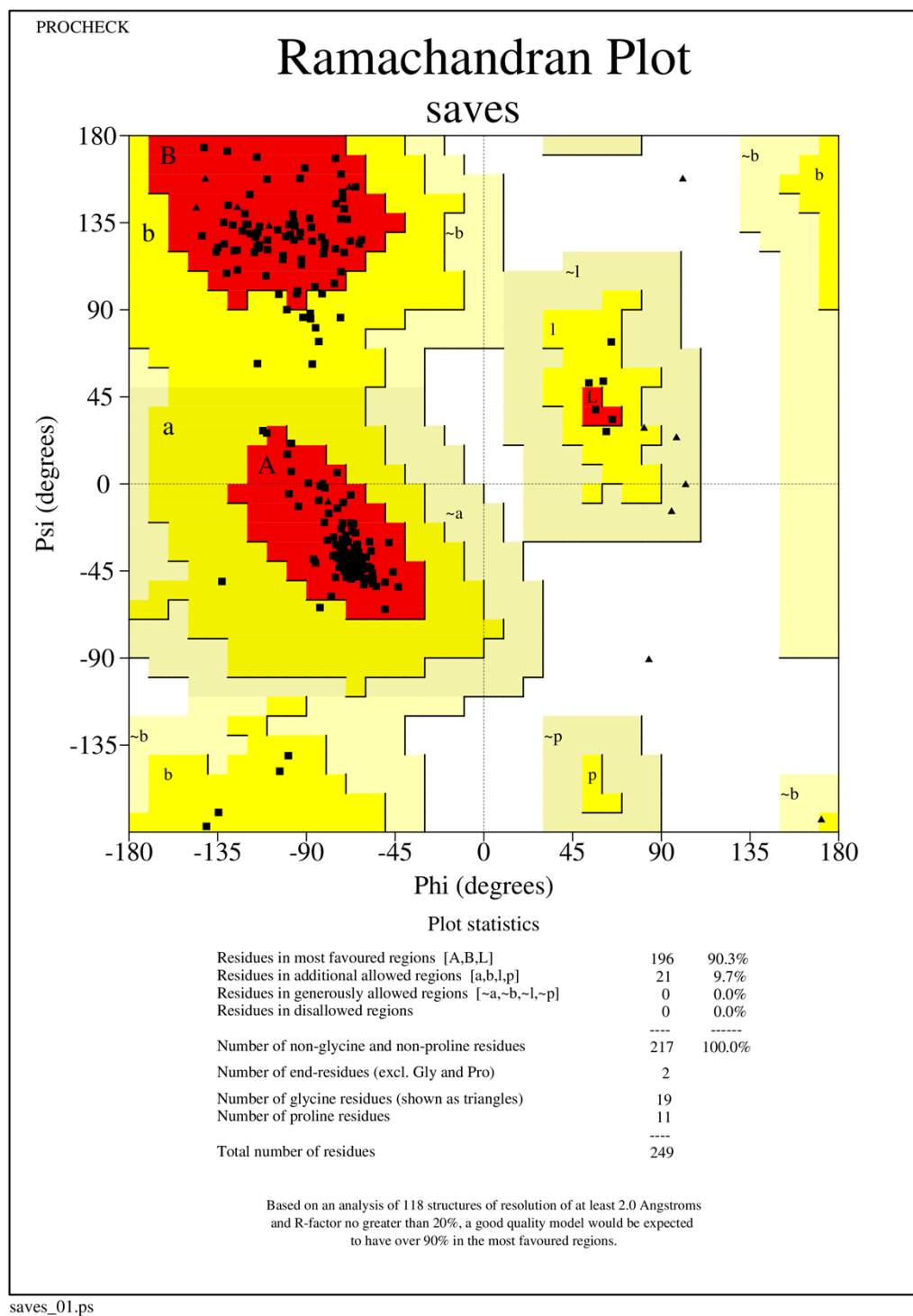


Figure 2. RAMACHANDRAN plot of Oxa-376 variant

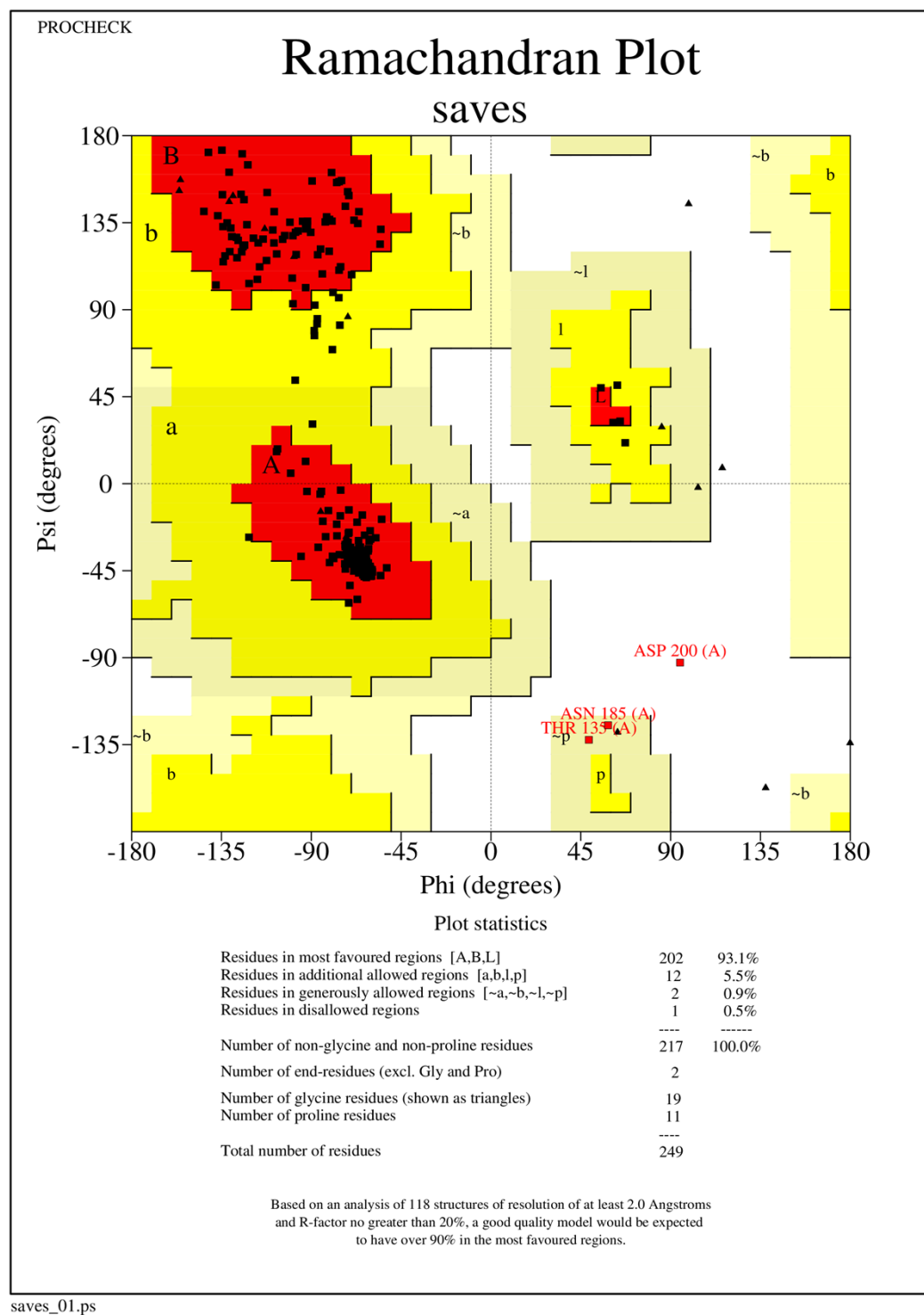


Figure 3. RAMACHANDRAN plot of Oxa-530 variant

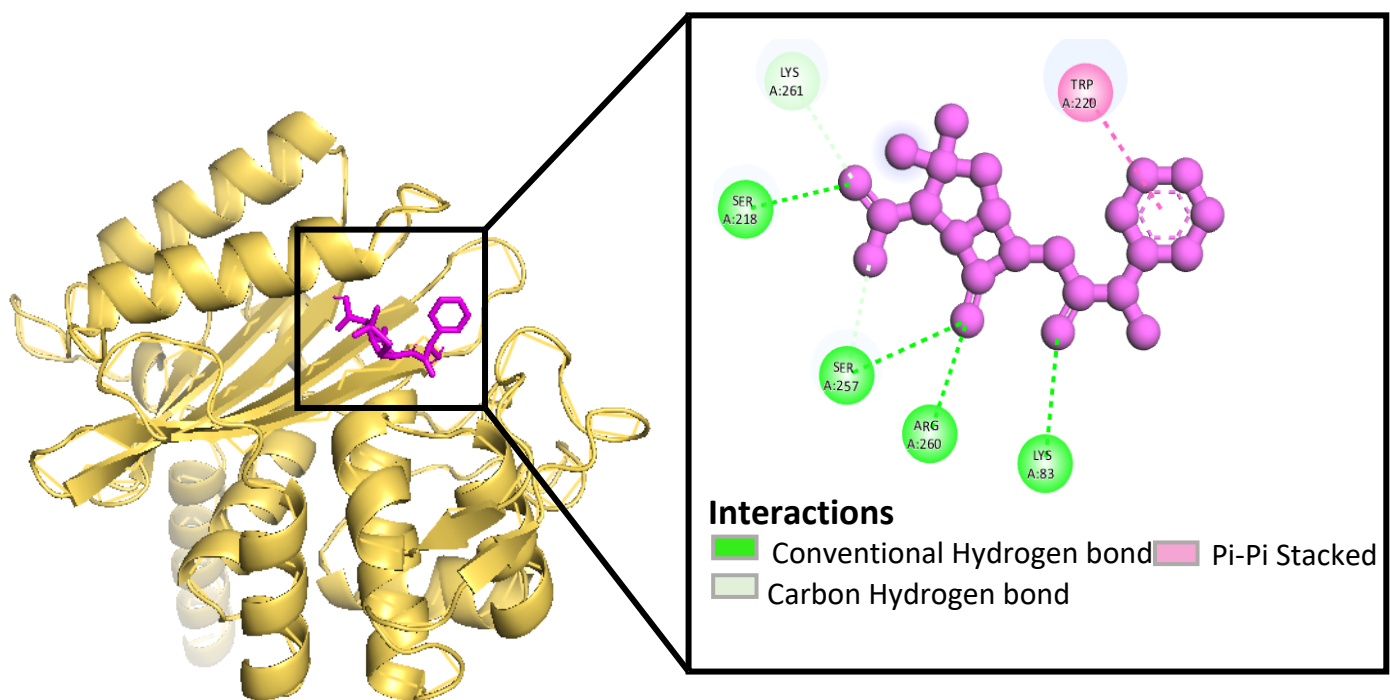


Figure 4. Schematic presentation Oxa-51_Ampicillin complex

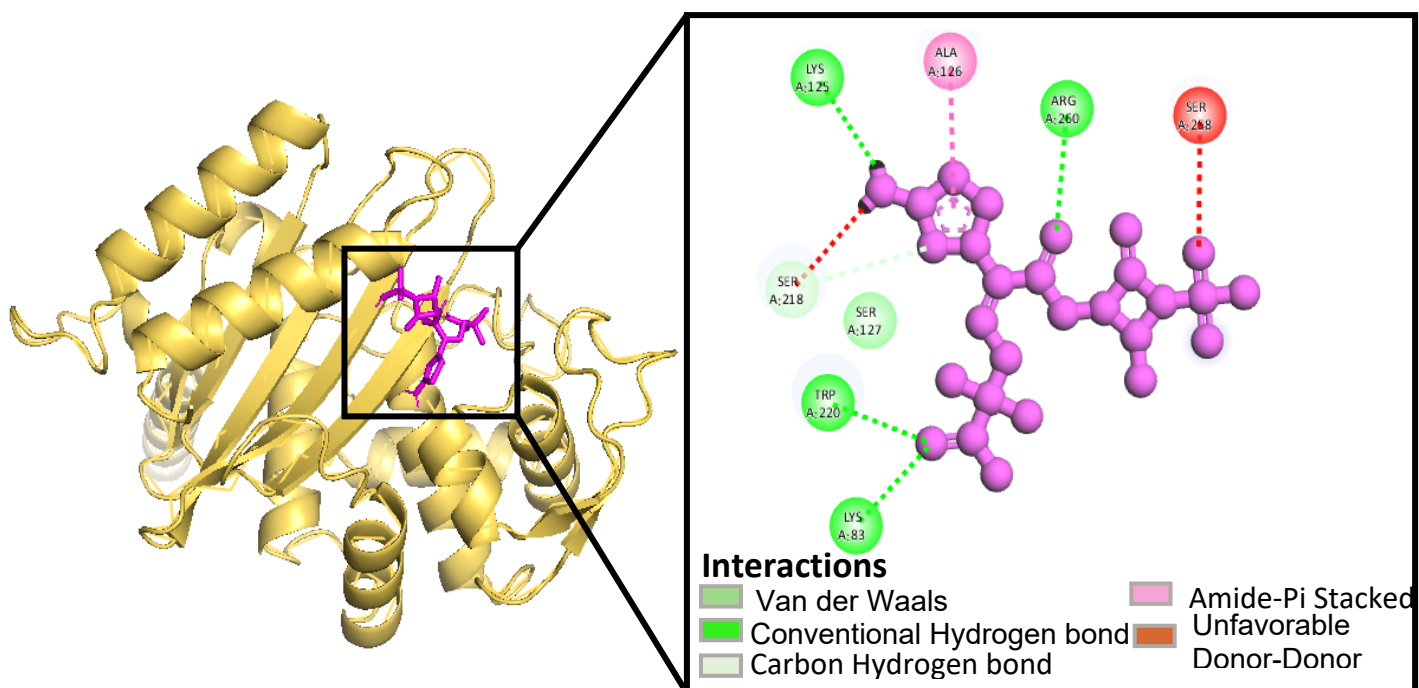


Figure 5. Schematic presentation Oxa-51_ Aztreonam complex

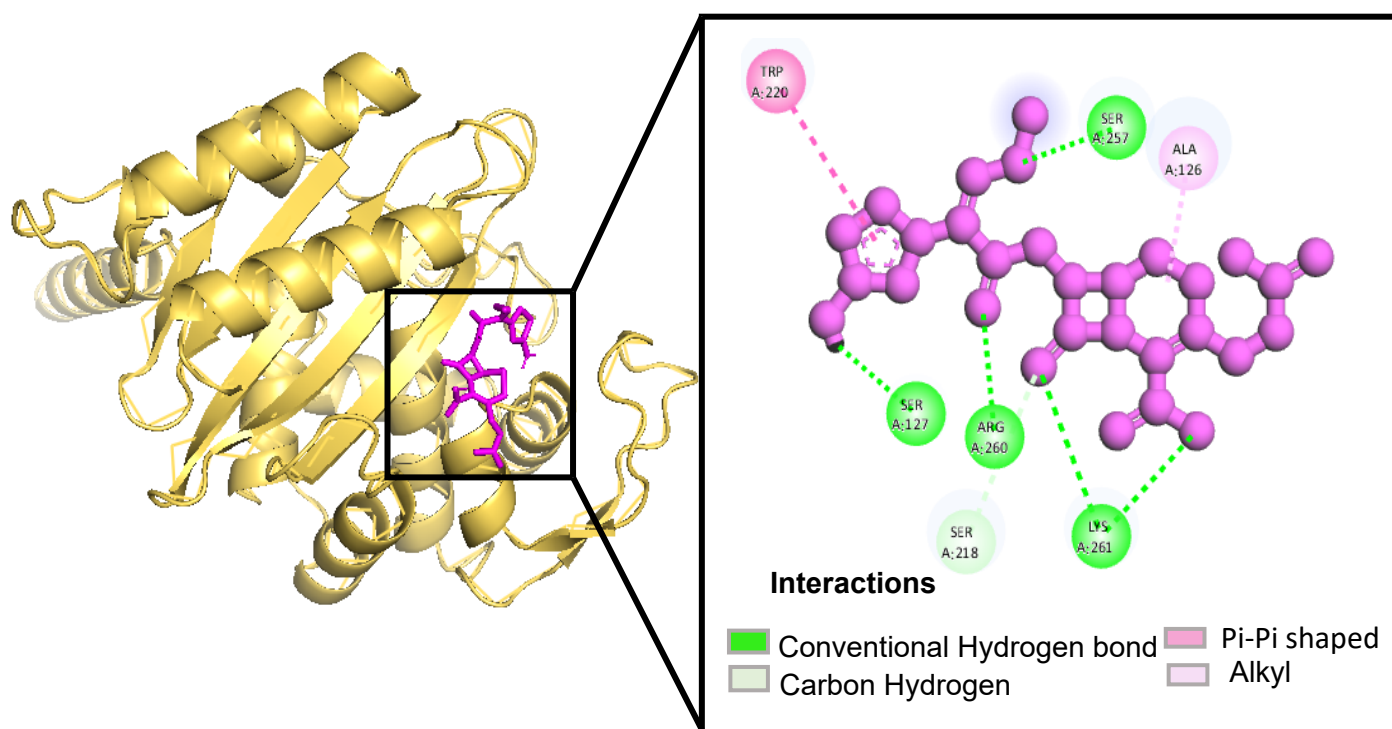


Figure 6. Schematic presentation Oxa-51_ Cefotaxime complex

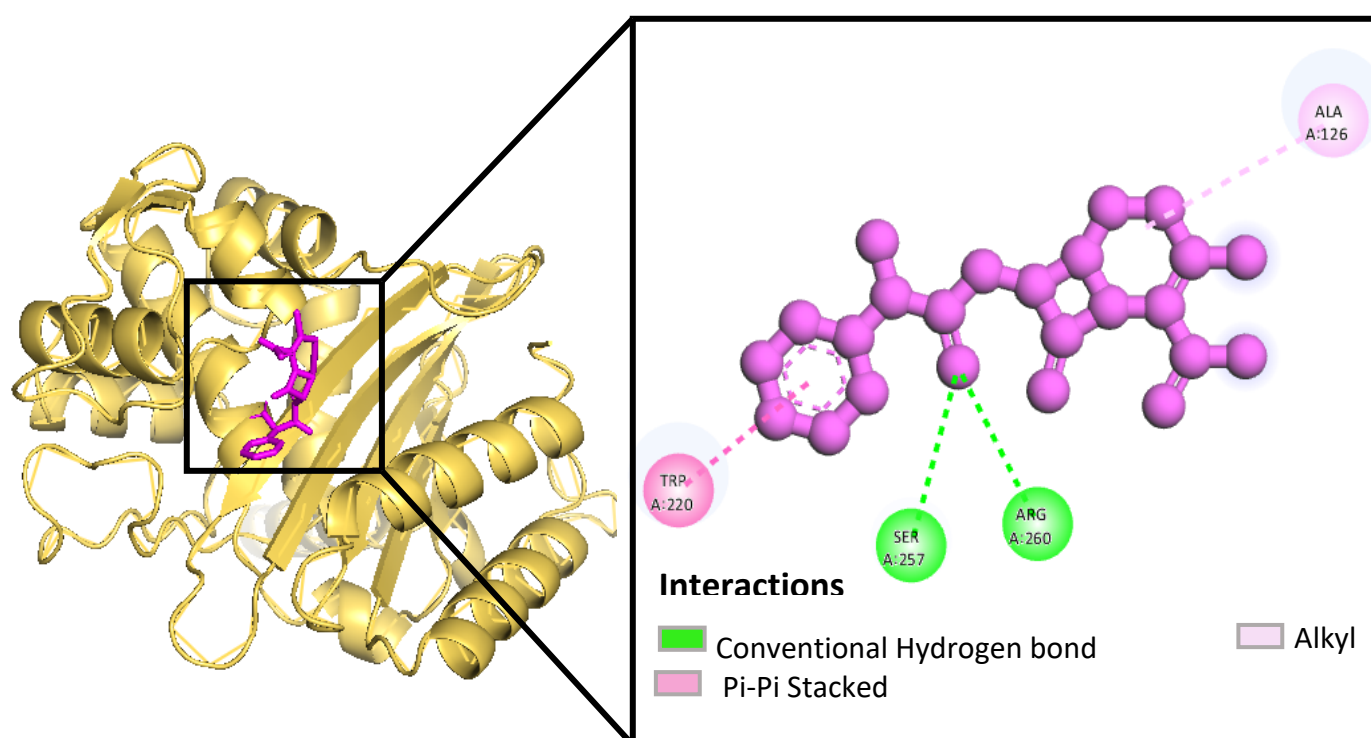


Figure 7. Schematic presentation Oxa-51_Cefaclor complex

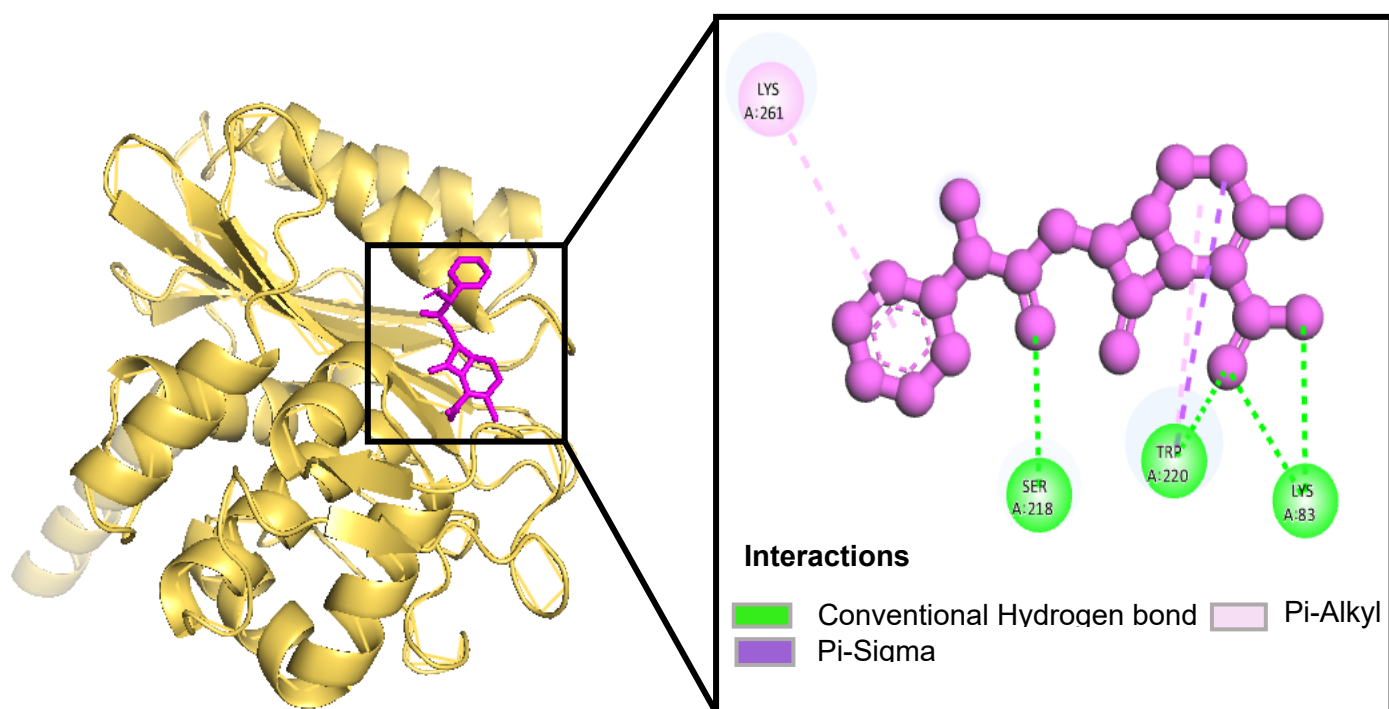


Figure 8. Schematic presentation Oxa-51_DB04293 complex

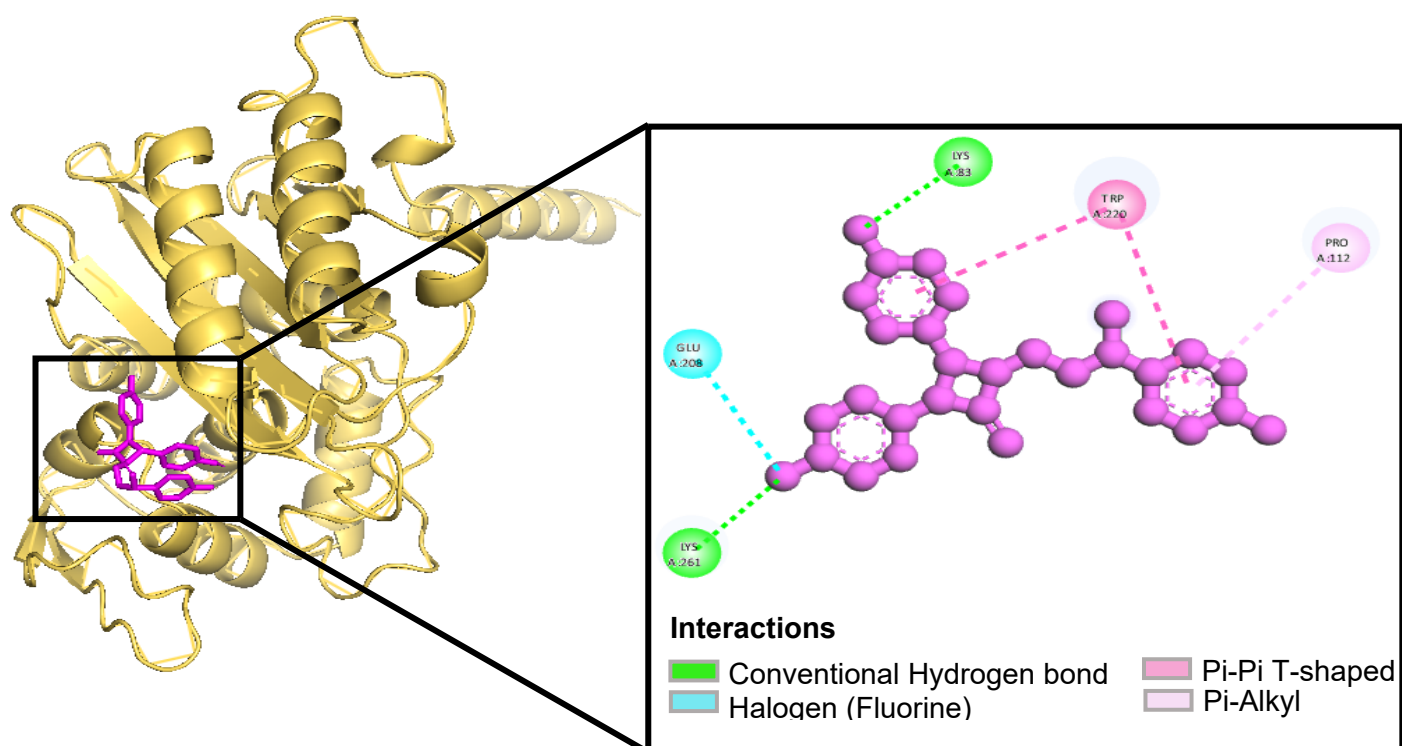


Figure 9. Schematic presentation Oxa-51_Ezetimibe complex

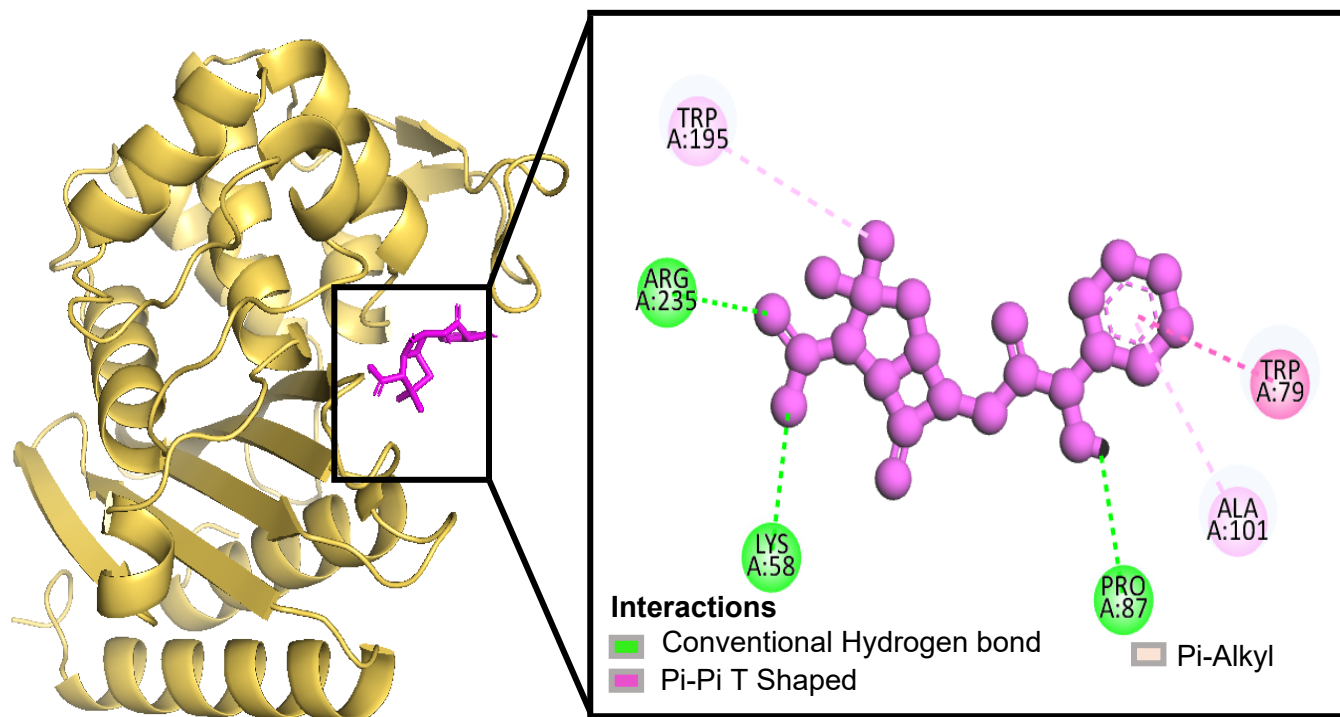


Figure 10. Schematic presentation Oxa-376_Ampicillin complex

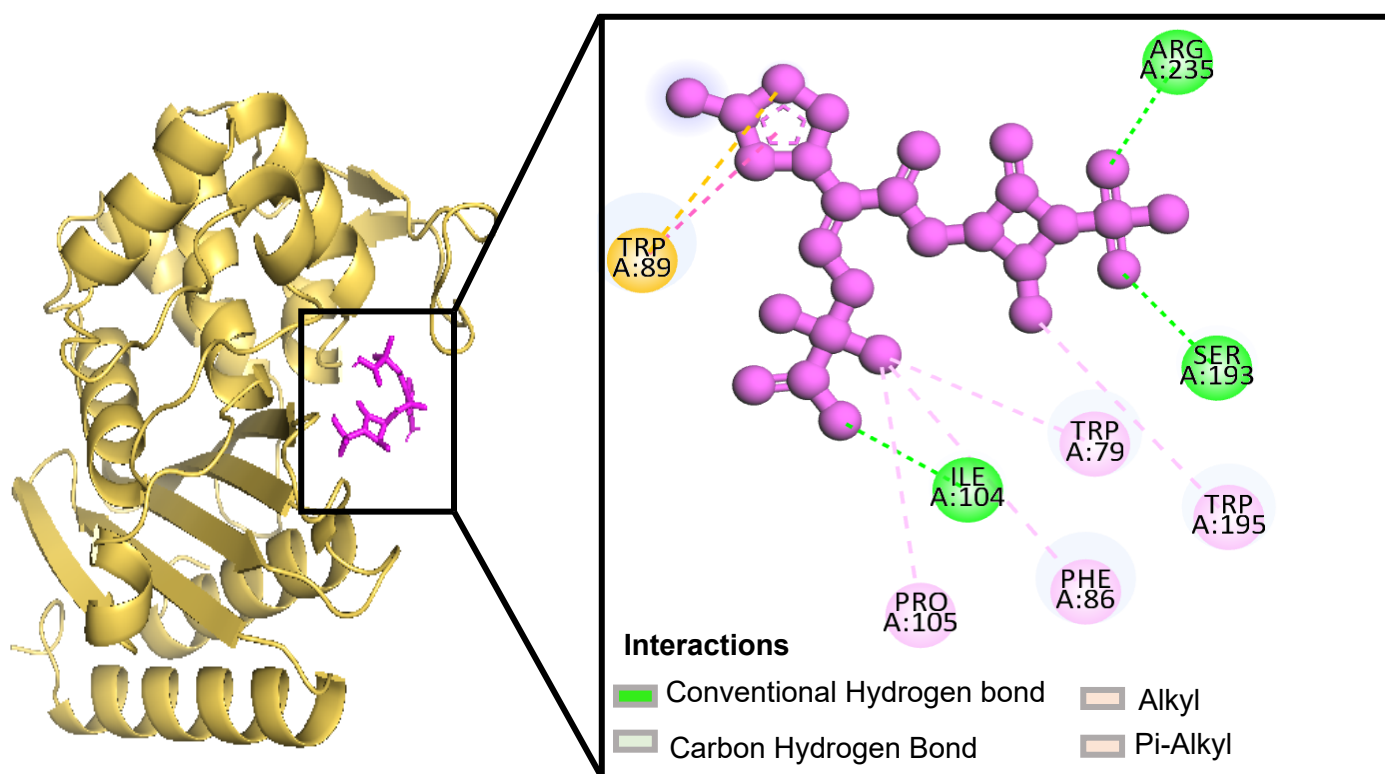


Figure11. Schematic presentation Oxa-376_Aztreonam complex

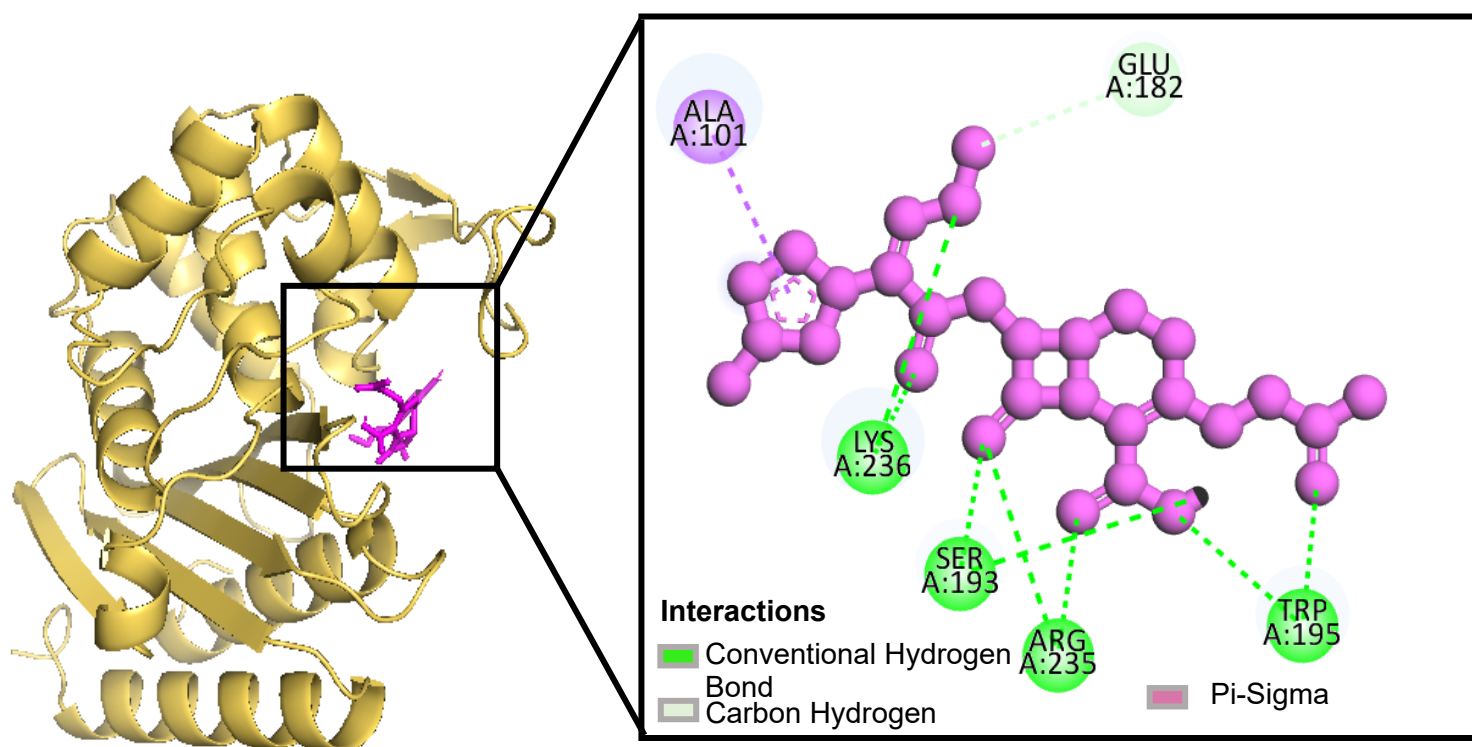


Figure 12. Schematic presentation Oxa-376_Cefotaxime complex

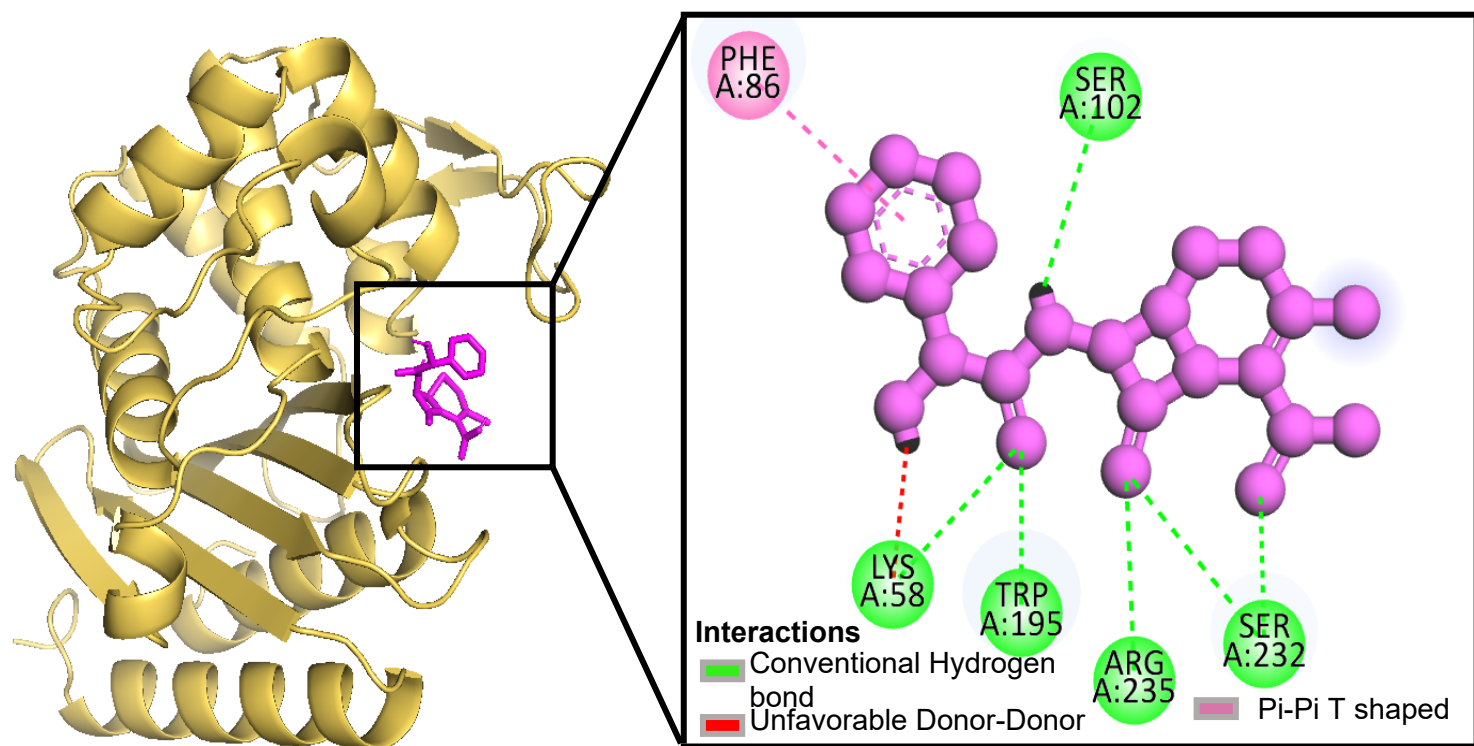


Figure 13. Schematic presentation Oxa-376_Cefaclor complex

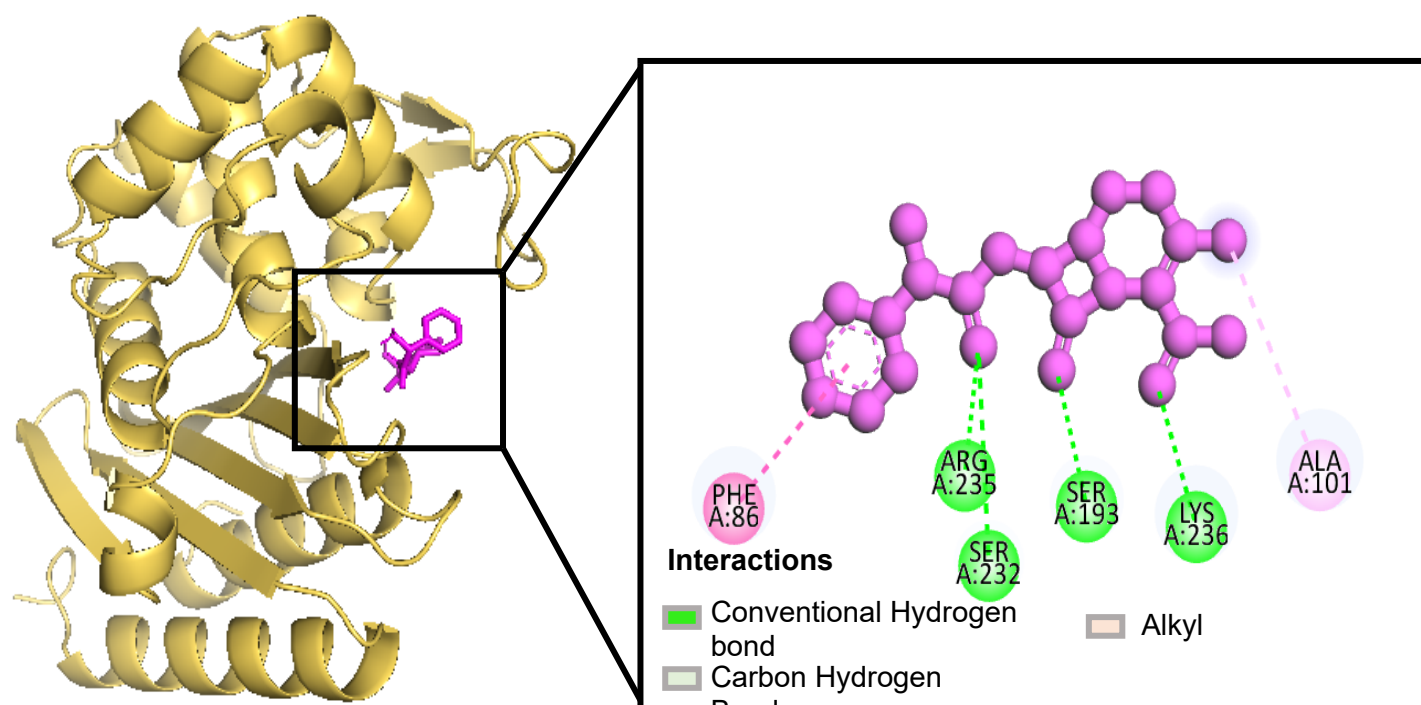


Figure 14. Schematic presentation Oxa-376_ DB04293 complex

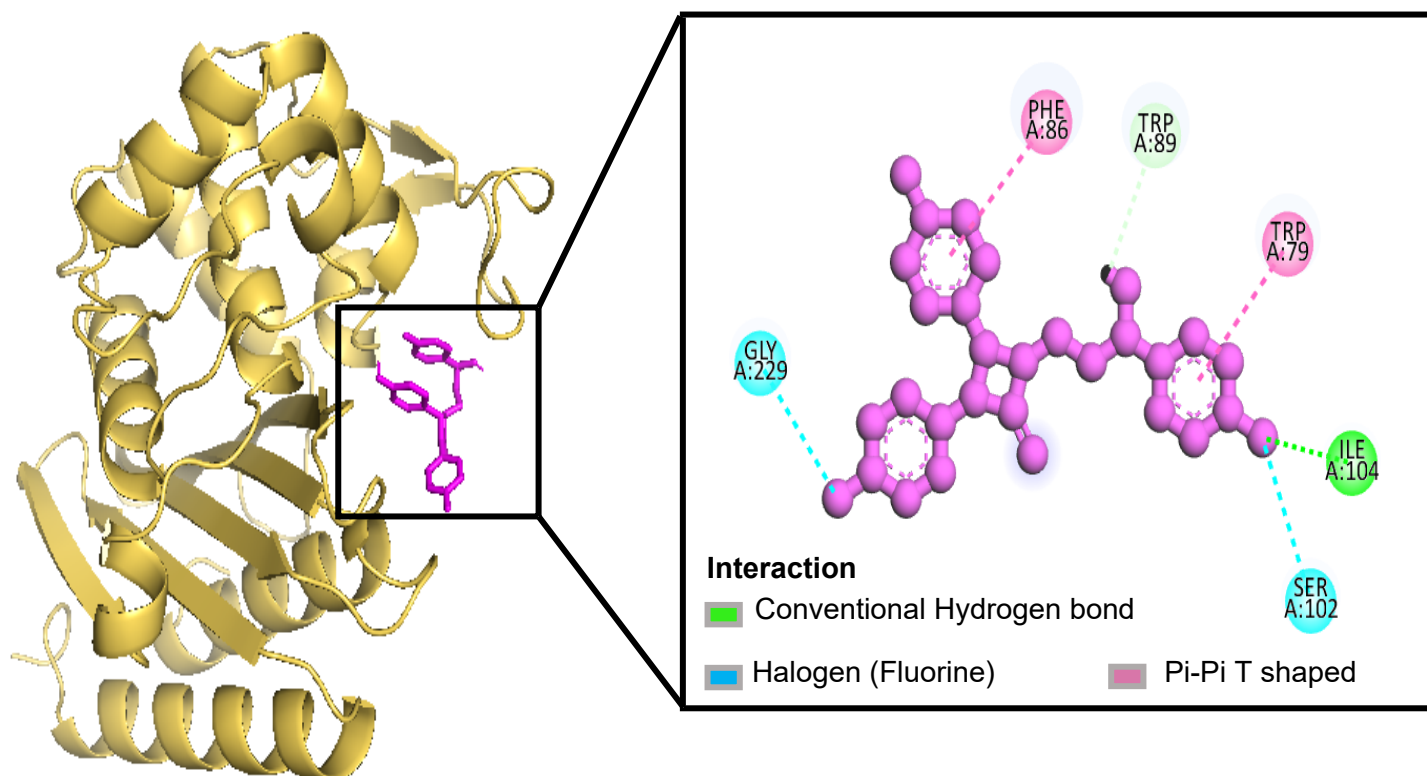


Figure 15. Schematic presentation Oxa-376_Ezetimibe complex

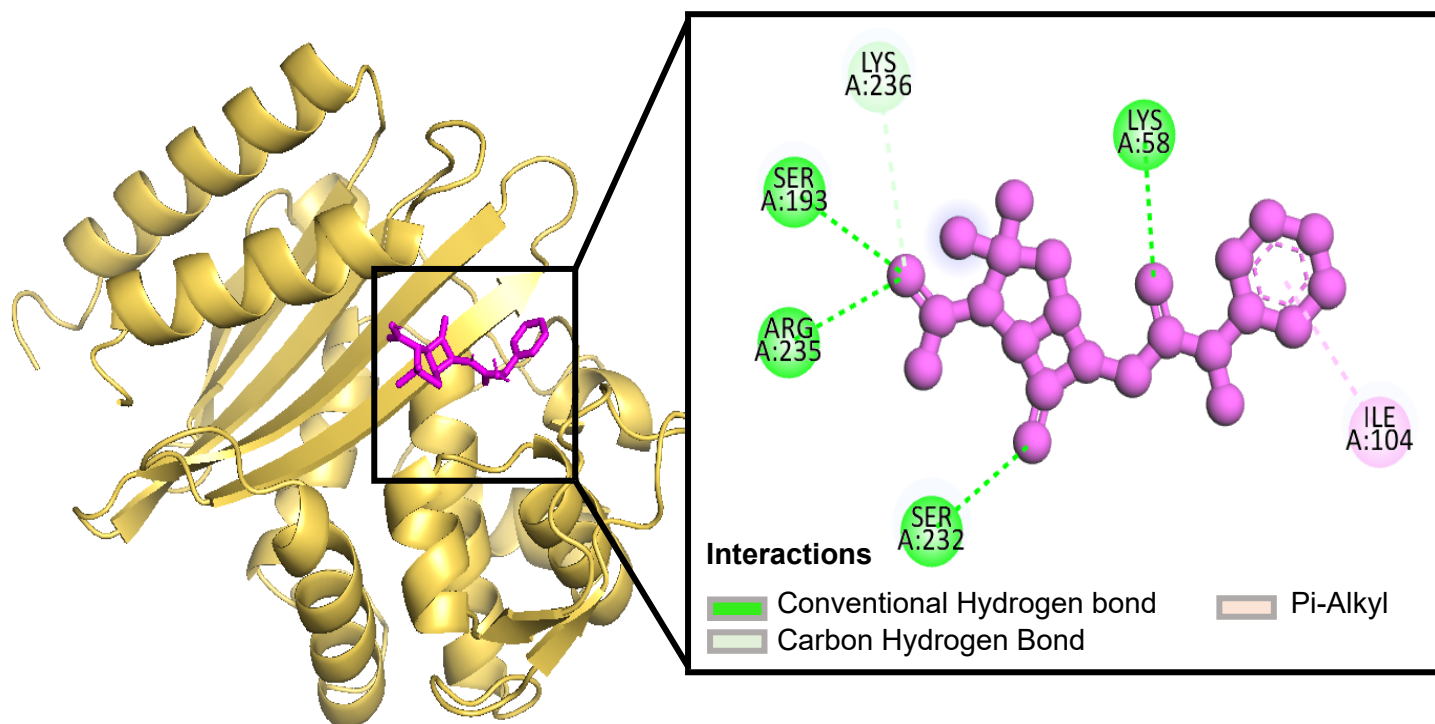


Figure 16. Schematic presentation Oxa-376_Ampicillin complex

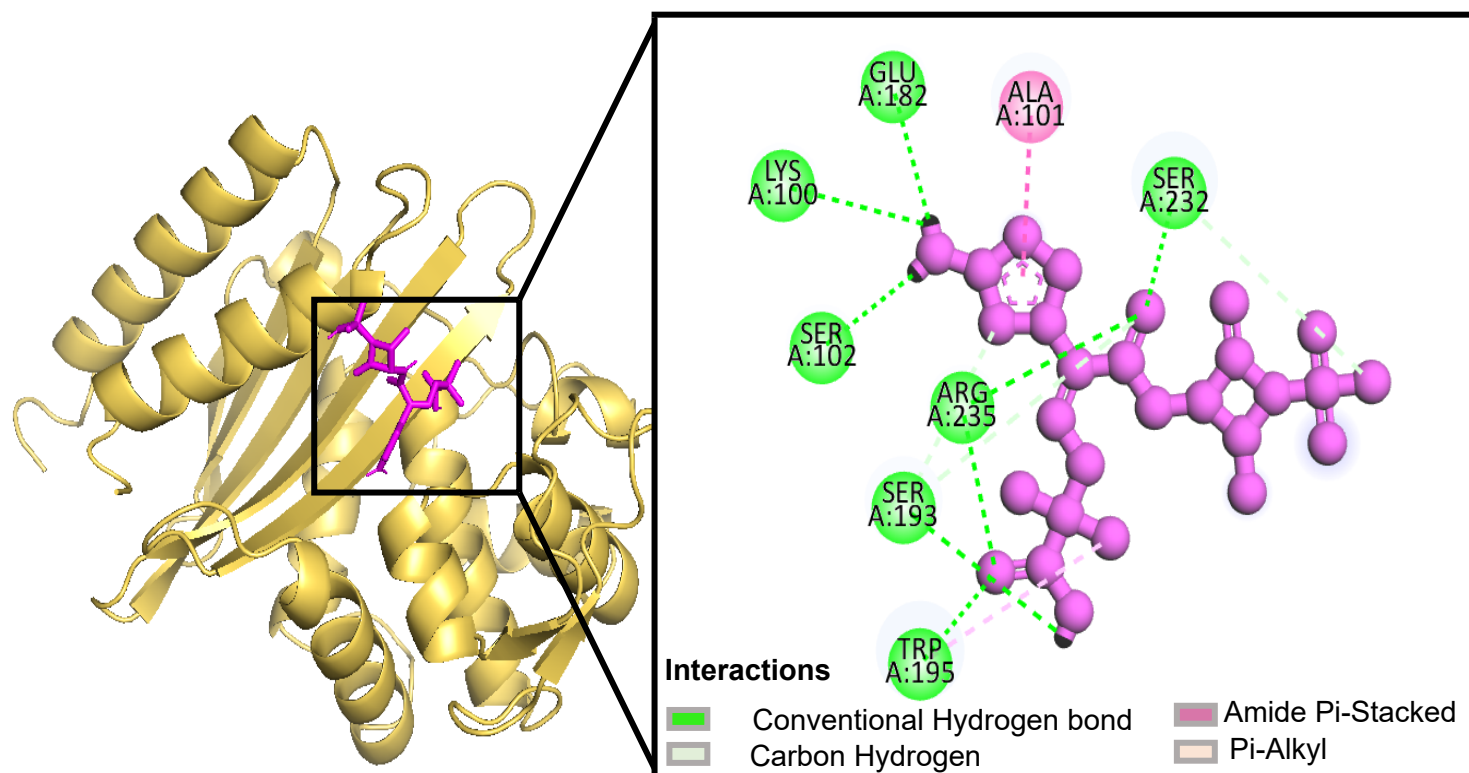


Figure 17. Schematic presentation Oxa-376_Aztreonam complex

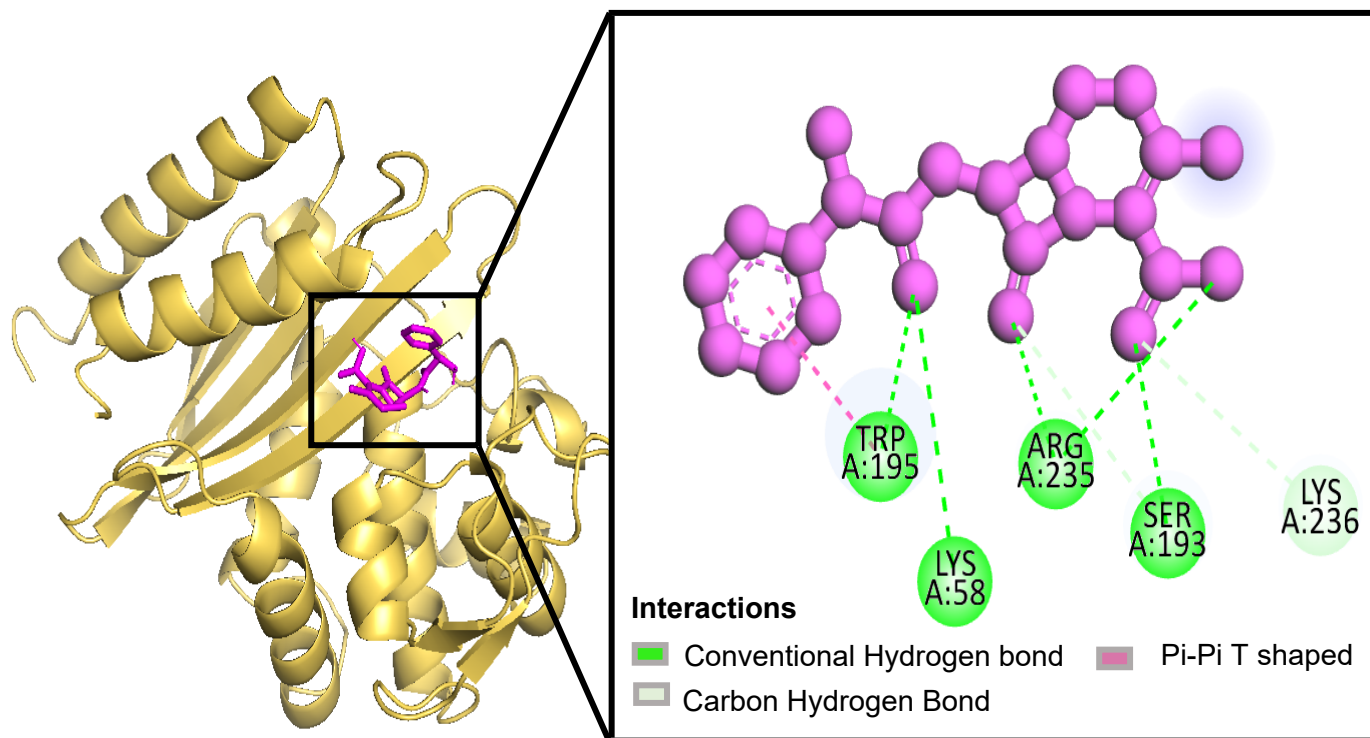


Figure 18. Schematic presentation Oxa-376_Cefaclor complex

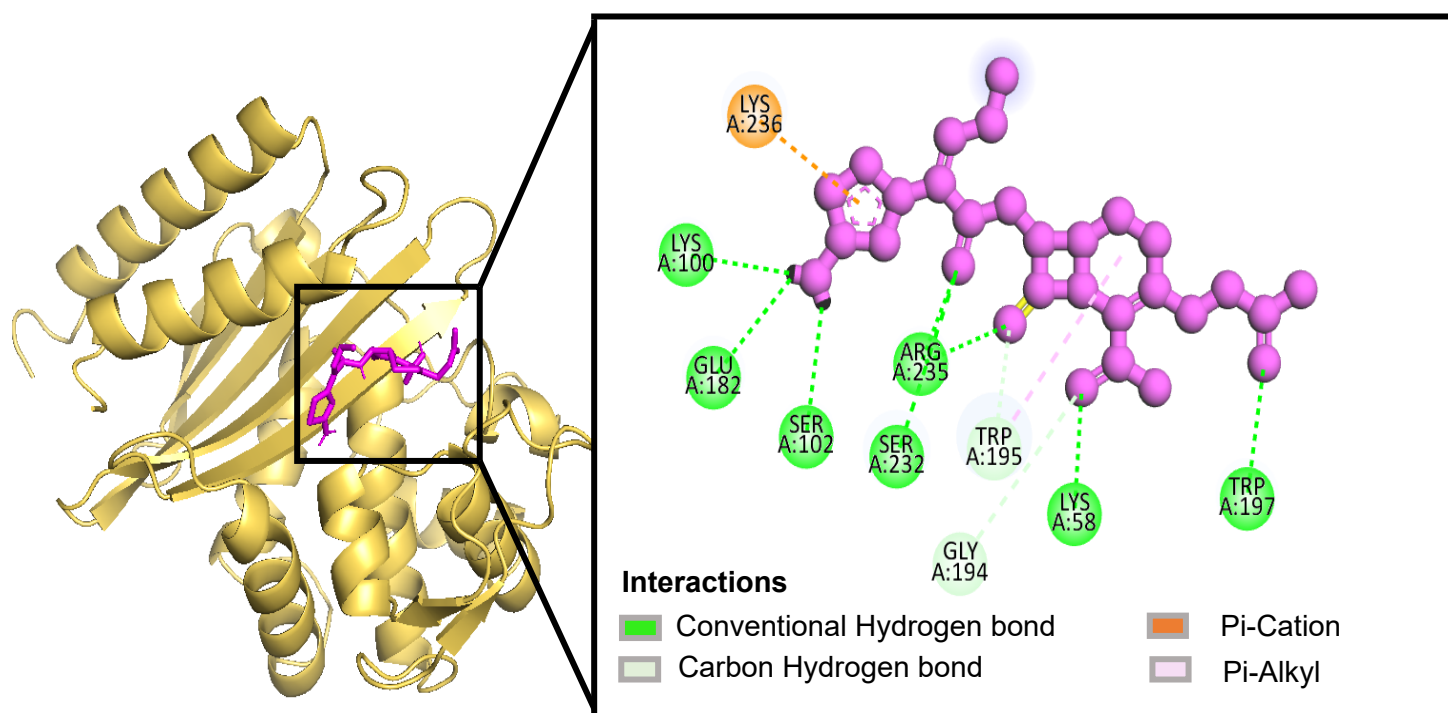


Figure 19. Schematic presentation Oxa-376_Cefotaxime complex

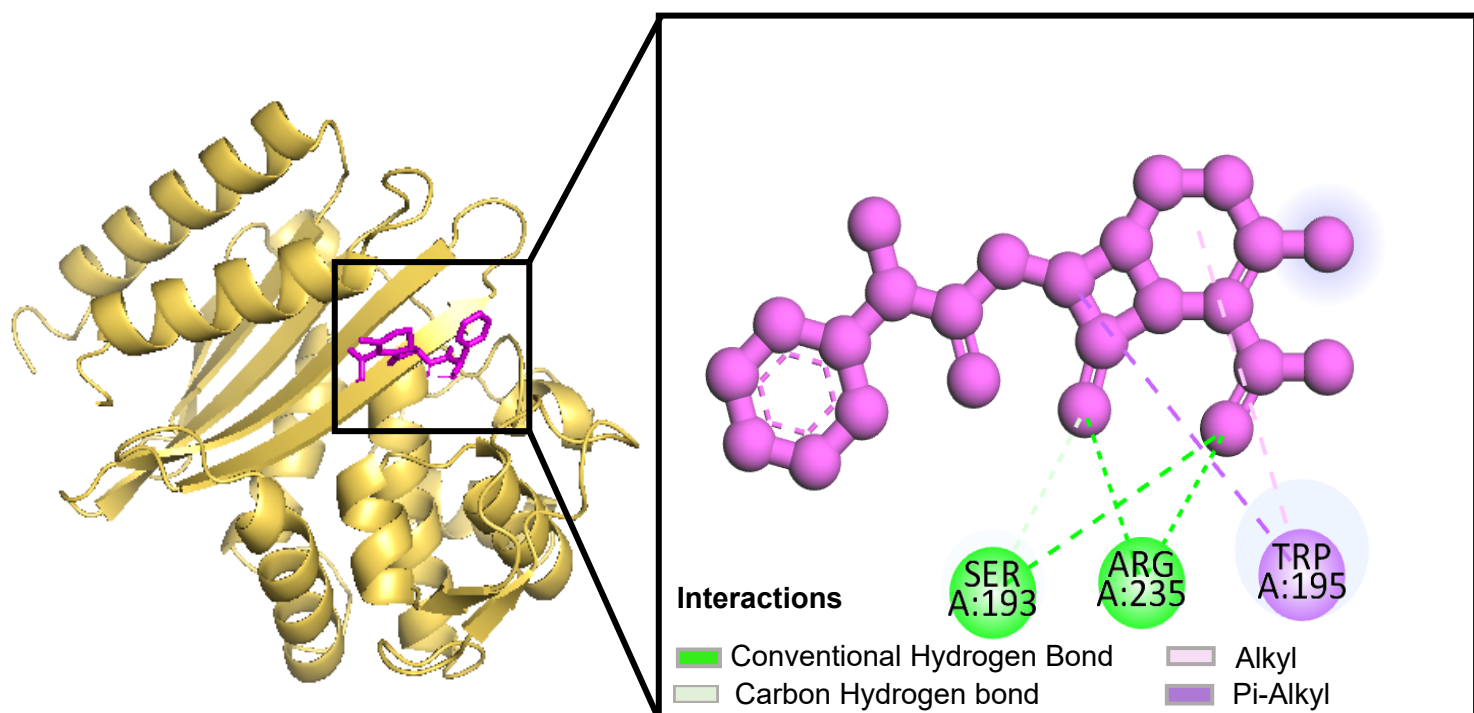


Figure 20. Schematic presentation Oxa-376_ DB04293 complex

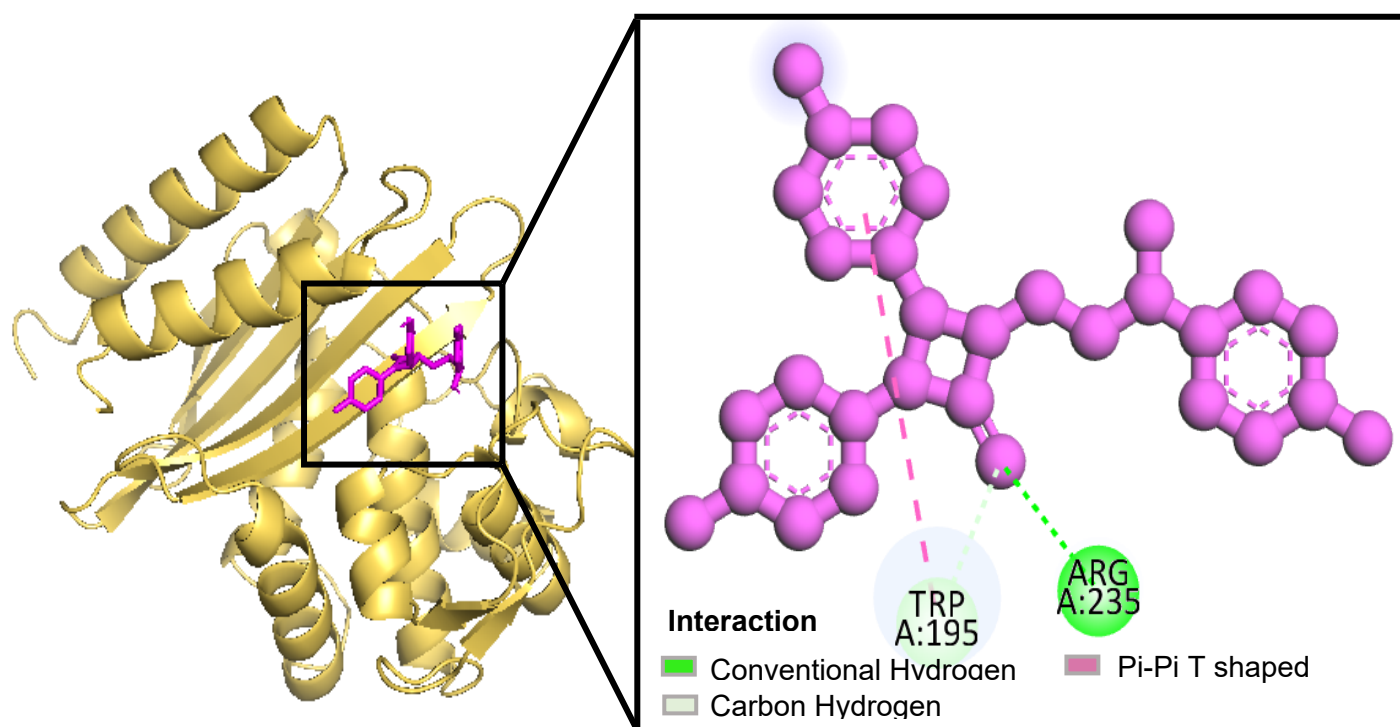


Figure 21. Schematic presentation Oxa-376_Ezetimibe complex

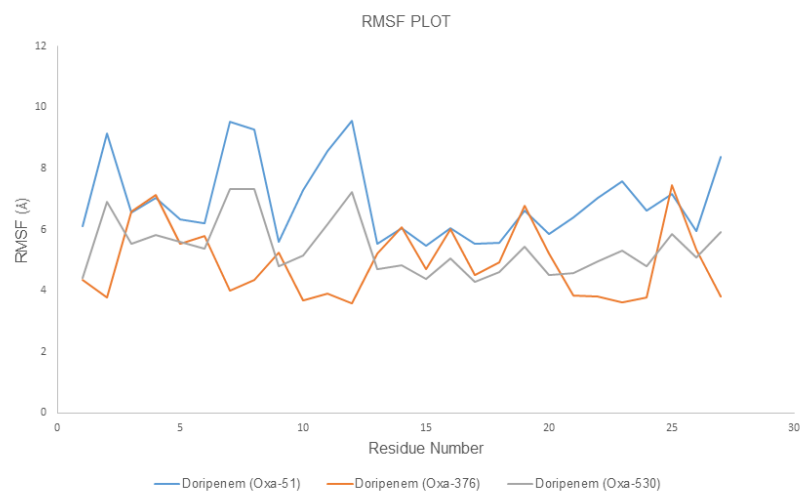


Figure 22. Schematic presentation of Ligand RMSF

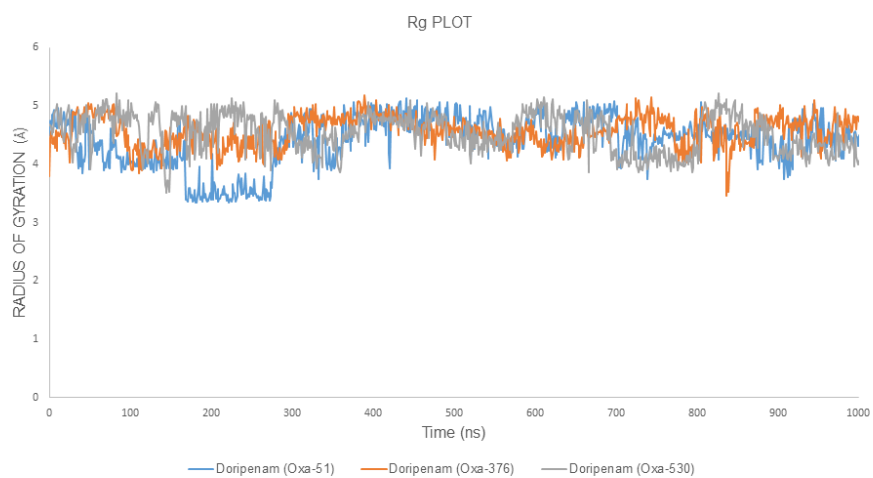


Figure 23. Schematic presentation of Ligand Radius of Gyration

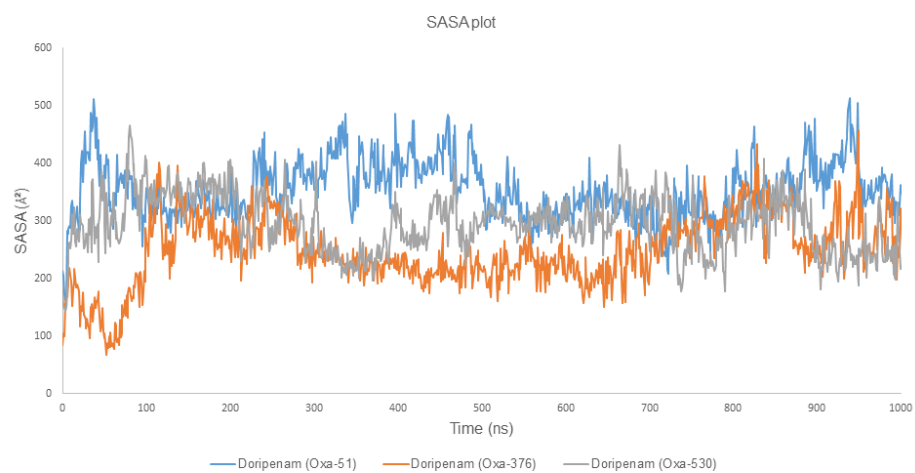


Figure 24. Schematic presentation of Ligand SASA.