Fig. 1S. Vimentin protein identifications were confirmed by MS/MS sequencing of selected peptides. Three PMF peaks showing a high intensity were CID fragmented using Argon as collision gas. Accelerating voltages for ion sources 1 and 2 were 8.00 kV and 7.15 kV, respectively, while reflector 1 and reflector 2 voltages were respectively set to 29.50 kV and 14 kV with Lift 1 and Lift 2 set to 19 kV and 2.80 kV, respectively. Lens 10 voltage was 3.60 kV. Fragmented ions were analyzed using the Flex Analysis software v.3.0 and the MS/MS database searching was carried out in the UniProtKB database using the on-line-available MASCOT MS/MS ion search software. Taxonomy was limited to *Homo sapiens*, peptide precursor charge was set to +1, mass tolerance of ± 1.2 Da for precursor peptide and ± 0.5 Da for fragment peptides were allowed, and the number of accepted missed cleavage sites was set to one. Alkylation of cysteine by carbamidomethylation was selected as fixed modification, while oxidation of methionine was considered as a possible modification. We judged significant peptides with individual ion scores p < 0.05.



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	a a-17	1 2 3 S L S L	3 4 5 <mark>Y</mark> A 3 Y A 3	67 5 <mark>5</mark> 9 557	89 66	10 11 12 V Y A V Y A	2 13 14 1 T R T R	60.044 43.018	2 173.128 156.102	3 336.192 319.165	4 407.229 390.202	5 494.261 477.234	6 581.293 564.266	7 678.346 661.319	8 735.367 718.341	9 792.389 775.362	10 891.457 874.431	11 1054.5 1037.4
	lon a a-17 a-18	1 2 3 S L S L	3 4 5 Y A 3 Y A 3 Y A 3	67 5 <mark>5</mark> 9 557 857	8 9 G G G G	10 11 12 V Y A V Y A V Y A	2 13 14 1 T R T R T R	60.044 43.018 42.034	2 173.128 156.102 155.118	3 336.192 319.165 318.181	4 407.229 390.202 389.218	5 494.261 477.234 476.250	6 581.293 564.266 563.282	7 678.346 661.319 660.335	8 735.367 718.341 717.357	9 792.389 775.362 774.378	10 891.457 874.431 873.446	11 1054.5 1037.4 1036.5
	lon a a-17 a-18 b	1 2 3 S L S L S L	3 4 5 Y A 3 Y A 3 Y A 3 Y A 3	6 7 S S P S S P S S P S S P	8 9 G G G G G G	10 11 12 V Y A V Y A V Y A V Y A	2 13 14 1 T R T R T R	60.044 43.018 42.034 88.039	2 173.128 156.102 155.118 201.123	3 336.192 319.165 318.181 364.187	4 407.229 390.202 389.218 435.224	5 494.261 477.234 476.250 522.256	6 581.293 564.266 563.282 609.288	7 678.346 661.319 660.335 706.341	8 735.367 718.341 717.357 763.362	9 792.389 775.362 774.378 820.384	10 891.457 874.431 873.446 919.452	11 1054.5 1037.4 1036.5 1082.5
	lon a a-17 a-18 b b-17	1 2 3 S L S L S L S L	3 4 5 Y A 9 Y A 9 Y A 9 Y A 9 Y A 9	67 SSP SSP SSP SSP	8 9 6 6 6 6 6 6 6 6	10 11 12 V Y A V Y A V Y A V Y A	2 13 14 1 T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013	2 173.128 156.102 155.118 201.123 184.097	3 336.192 319.165 318.181 364.187 347.160	4 407.229 390.202 389.218 435.224 418.197	5 494.261 477.234 476.250 522.256 505.229	6 581.293 564.266 563.282 609.288 592.261	7 678.346 661.319 660.335 706.341 689.314	8 735.367 718.341 717.357 763.362 745.336	792.389 775.362 774.378 820.384 803.357	10 891.457 874.431 873.446 919.452 902.425	11 1054.5 1037.4 1036.5 1082.5 1065.4
	lon a a-17 a-18 b b-17 b-18	1 2 3 S L S L S L S L S L	3 4 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5	6 7 S S P S S P S S P S S P S S P S S P	9 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A	2 13 14 1 T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029	2 173.128 156.102 155.118 201.123 184.097 183.113	3 336.192 319.165 318.181 364.187 347.160 346.176	4 407.229 390.202 389.218 435.224 418.197 417.213	5 494.261 477.234 476.250 522.256 505.229 504.245	6 581.293 564.266 563.282 609.288 592.261 591.277	7 678.346 661.319 660.335 706.341 689.314	8 735.367 718.341 717.357 763.362 746.336 745.352	792.389 775.362 774.378 820.384 803.357 802.373	10 891.457 874.431 873.446 919.452 902.425 901.441	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5
	lon a a-17 a-18 b b-17 b-18 b+18	1 2 3 S L S L S L S L S L S L S L	3 4 5 Y A 9 Y A 9 Y A 9 Y A 9 Y A 9 Y A 9 Y A 9	6 7 S S P S S P S S P S S P S S P S S P S S P	9 9 6 6 6 6 6 6 6 6 6 6 6 6	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A	13 14 1 T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373	792.389 775.362 774.378 820.384 803.357 802.373 838.394	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5
	lon a-17 a-18 b-17 b-18 b+18 c	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5	6 7 5 5 9 5 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9	8 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.088	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 453.234	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.387	8 735.367 718.341 717.357 763.362 746.336 746.336 745.352 781.373 780.389	792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1099.5
	lon a.17 a.18 b.17 b.18 b+18 c.18	1 2 3 S L S L S L S L S L S L S L S L S L	3 4 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5	6 7 5 5 9 5 5 9 6 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7	8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 202.146	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 453.234 556.246	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 946.410	792.389 775.362 774.378 820.384 803.357 802.373 838.394 838.394 837.410	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1099.5
	lon a-17 a-18 b-17 b-18 b+18 c c x	1 2 3 S L S L S L S L S L S L S L S L S L S L	3 4 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5	6 7 S S P S S P	8 9 G G G G G G G G G G G G G G G	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A	13 14 1 T R T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 226.187	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.3183 247.204	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.257	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.462	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1099.5 1091.5
	lon a-17 a-18 b-17 b-18 b+18 c x y	1 2 3 S L S L S L S L S L S L S L S L S L S L	3 4 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5 Y A 5	6 7 S S P S S P	8 9 0 G G G G G G G G G G G G G G G	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A	13 14 1 T R T R T R T R T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 261.429	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 290.477	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 403.244	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 709.950	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 077.460	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1099.5 1091.5 1065.5
→ ✓ j. peak 50 → ✓ j. peak 51 → ✓ j. peak 52 → ✓ J. peak 53 → ✓ S Global peptide results ✓ J. peak 53 → ✓ S Global peptide results ✓ J. peak 53 → ✓ Modifications: Global: → ✓ Modifications: Global: → ✓ j. peak 9 → ✓ j. peak 11 → ✓ j. peak 12 → ✓ J. MSMS 14	lon a.17 a.18 b.17 b.17 b.18 b+18 c x y z	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5	6 7 S S P S S P	8 9 0 G G G G G G G G G G G G G G G	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A	13 14 T R T R T R T R T R T R T R T R T R T R T R T R T R T R T R T R T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 \$0.044	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 426.075	4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,949	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.955	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 20.033	9 792.389 775.362 774.378 820.384 803.367 802.373 838.394 837.410 933.442 907.463 890.437 20.032	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.090	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1099.5 1091.5 1065.5 1065.5 1088.5
→ ✓ j. peak 50 → ✓ j. peak 51 → ✓ j. peak 52 → ✓ Global peptide results → ✓ J. peak 12 → ✓ J. peak 16	lon a.17 a.18 b.17 b.17 b.18 b.18 b.18 b.18 c x x z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5	6 7 S S P S S P	8 9 G G G G G G G G G G G G G G G	10 11 12 V Y A V Y V	13 14 T R	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 The	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 915	4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,049 717	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 6.0.044	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 014	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Dro	9 792.389 775.362 774.378 820.384 803.367 802.373 838.394 837.410 933.442 907.463 890.437 30.033	10 891.457 874.431 873.446 919.452 901.445 901.441 937.463 936.479 1020.474 994.495 977.469 72.080	11 1054.5 1037.4 1036.5 1082.5 1065.4 1064.5 1100.5 1091.5 1091.5 1065.5 1048.5 136.0 0
	lon a.17 a-18 b.17 b-18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A Y <th>6 7 S S P</th> <th>8 9 G G</th> <th>10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3</th> <th>13 14 1 T R 1</th> <th>60.044 43.018 42.034 88.039 71.013 70.029 106.0506 201.098 175.119 158.092 60.044 Arg</th> <th>2 173.128 156.102 155.118 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th> <th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala</th> <th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th> <th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th> <th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th> <th>7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th> <th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th> <th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th> <th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th> <th>11 1054.5 1037.4 1036.5 1062.5 1065.4 1064.5 1100.5 1099.5 1091.5 1065.5 1048.5 1069.5 1069.5 1069.5 1069.5 1068.5 10</th>	6 7 S S P	8 9 G G	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3	13 14 1 T R 1	60.044 43.018 42.034 88.039 71.013 70.029 106.0506 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly	7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1062.5 1065.4 1064.5 1100.5 1099.5 1091.5 1065.5 1048.5 1069.5 1069.5 1069.5 1069.5 1068.5 10
	Ion a a-17 b-18 b-17 b-18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A Y <th>6 7 S S P S S S P S S P S</th> <th>8 9 G G G<th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>13 14 T R R R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val</th><th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 689.314 688.330 724.351 723.367 749.358 729.358 729.357 619 619</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 1095.5 1065.5 10</th></td<></th></th>	6 7 S S P S S S P S	8 9 G G G <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>13 14 T R R R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val</th><th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 689.314 688.330 724.351 723.367 749.358 729.358 729.357 619 619</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 1095.5 1065.5 10</th></td<></th>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 T R R R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val</th><th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 689.314 688.330 724.351 723.367 749.358 729.358 729.357 619 619</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 1095.5 1065.5 10</th></td<>	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val	6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly	7 678.346 661.319 660.335 706.341 689.314 689.314 688.330 724.351 723.367 749.358 729.358 729.357 619 619	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 1095.5 1065.5 10
	lon a.17 a.17 b.18 b.17 b.18 b.18 c x y z i i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5 <t< th=""><th>6 7 S S P S S</th><th>8 9 G G G</th></t<> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>13 14 T R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.038 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.219 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581.293 564.266 563.282 609.283 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 10</th></td<></th>	6 7 S S P S S	8 9 G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 T R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.038 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.219 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581.293 564.266 563.282 609.283 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 10</th></td<>	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.038 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.219 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.283 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1085.5 1065.5 1099.5 10
	lon a.17 a.17 b.18 b.17 b.18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5 <t< th=""><th>6 7 S S P S S S P S S</th><th>8 9 G G G</th></t<> <th>10 11 12 V Y A</th> <th>13 14 T R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,049 Tyr</th><th>5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>3 792.389 775.362 774.378 802.384 803.367 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.4 1064.5 1099.5 1099.5 1099.5 1091.5 1098.5 1081.5 1085.5 1086.5 10</th></td<></th>	6 7 S S P S S	8 9 G G G	10 11 12 V Y A	13 14 T R <td< th=""><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,049 Tyr</th><th>5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>3 792.389 775.362 774.378 802.384 803.367 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1065.4 1064.5 1099.5 1099.5 1099.5 1091.5 1098.5 1081.5 1085.5 1086.5 10</th></td<>	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,049 Tyr	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	3 792.389 775.362 774.378 802.384 803.367 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1085.5 1065.4 1064.5 1099.5 1099.5 1099.5 1091.5 1098.5 1081.5 1085.5 1086.5 10
	lon a.17 a-18 b.17 b.18 b+18 c x x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A Y <th>6 7 S S P S S S P S S</th> <th>8 9 G G G<th>10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3</th><th>13 14 1 T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . Z 1 .</th><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.068 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.881.213 373.83 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 502.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1082.5 1082.5 1082.5 1064.5 1091.5 1091.5 1091.5 1095.5 1048.5 136.0 Ala</th></th>	6 7 S S P S S	8 9 G G G <th>10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3</th> <th>13 14 1 T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . Z 1 .</th> <th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.068 201.098 175.119 158.092 60.044 Arg</th> <th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th> <th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.881.213 373.83 347.204 330.177 136.075 Ala</th> <th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th> <th>5 494.261 477.234 476.250 502.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th> <th>6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th> <th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th> <th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th> <th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th> <th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th> <th>11 1054.5 1037.4 1036.5 1082.5 1082.5 1082.5 1064.5 1091.5 1091.5 1091.5 1095.5 1048.5 136.0 Ala</th>	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3	13 14 1 T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . Z 1 .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.068 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.881.213 373.83 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 502.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1082.5 1082.5 1082.5 1064.5 1091.5 1091.5 1091.5 1095.5 1048.5 136.0 Ala
	lon a.17 a-18 b.17 b-18 b+18 c x y z i i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A Y <th>6 7 S S P S S S P S S S P S S S P</th> <th>8 9 G G G<th>10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3</th><th>13 14 1 T R .</th><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th><th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th><th>7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 729.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1082.5 1082.5 1064.5 1005.5 1099.5 1099.5 1095.5 1098.5 1048.5 136.0 Ala</th></th>	6 7 S S P S S S P S S S P S S S P	8 9 G G G <th>10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3</th> <th>13 14 1 T R .</th> <th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th> <th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th> <th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala</th> <th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th> <th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th> <th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th> <th>7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 729.378 706.352 70.065 Gly</th> <th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th> <th>9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th> <th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th> <th>11 1054.5 1037.4 1036.5 1082.5 1082.5 1064.5 1005.5 1099.5 1099.5 1095.5 1098.5 1048.5 136.0 Ala</th>	10 11 12 V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A V Y A S 4 3	13 14 1 T R .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly	7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 729.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1082.5 1082.5 1064.5 1005.5 1099.5 1099.5 1095.5 1098.5 1048.5 136.0 Ala
	lon a.17 a.18 b.17 b.18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A 5 <t< th=""><th>6 7 S S P S S S P</th><th>8 9 G G G G G G G G G G G G G G G</th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>13 14 1 T R .</th><th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th><th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th><th>3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala</th><th>4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th><th>5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val</th><th>6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly</th><th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly</th><th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th><th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th><th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser</th><th>11 1054.5 1037.4 1036.5 1085.5 1085.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5</th></t<>	6 7 S S P S S S P	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.336 592.309 60.044 Val	6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1085.5 1085.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5 1095.5
	lon a.17 a.17 b.18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	3 4 5 Y A Y <th>6 7 S S P S S S P S S P S S S</th> <th>8 9 G G G G G G G G G G G G G G G</th> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>13 14 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 Z 1 1</th> <th>60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg</th> <th>2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr</th> <th>3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala</th> <th>4 407.229 390.202 389.218 435.224 418.127 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr</th> <th>5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val</th> <th>6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly</th> <th>7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 700.655 Gly</th> <th>8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro</th> <th>9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser</th> <th>10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 977.469 977.469</th> <th>11 1054.5 1037.4 1036.5 1065.4 1065.5 1099.5 1009.5 10000.5 10000.5 10000.5 10000000000</th>	6 7 S S P S S S P S S P S S S	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 T R 1 Z 1 1	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.127 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 700.655 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 820.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 977.469 977.469	11 1054.5 1037.4 1036.5 1065.4 1065.5 1099.5 1009.5 10000.5 10000.5 10000.5 10000000000
	lon a.17 a.17 b.18 b.17 b.18 b+18 c x y z i	1 2 5 S L S L S L S L S L S L S L S L	3 4 5 Y A 5	6 7 S S P S S S P	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . T R . Z 1 .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407,229 390,202 389,218 435,224 418,197 417,213 453,234 452,250 536,246 510,267 493,241 44,049 Tyr	5 494.261 477.234 476.250 522.256 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.283 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 689.314 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.367 802.373 836.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1085.5 1065.5 1084.5 1099.5 1099.5 1099.5 1099.5 1098.5 1048.5 1048.5 1048.5 1048.5 1048.5
→ ✓ j. peak 50 → ✓ j. peak 51 → ✓ j. peak 52 → ✓ Global peptide results ✓ ✓ Global peptide results ✓ ✓ ✓ Global peptide results ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	lon a.17 a.18 b.17 b.18 b.18 b.18 c. × y z i	1 2 5 S L S L S L S L S L S L S L S L	3 4 5 Y A 5	6 7 S S P S S S S P S S S S	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R 1	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 380.202 389.218 435.224 418.197 417.213 453.234 453.234 453.234 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.388 846.410 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.357 802.373 836.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1082.5 1082.5 1084.5 1091.5 1091.5 1091.5 1095.5 1095.5 1048.5 136.0 Ala
Image: Solution of the set of the	Ion a a-17 a-18 b b-17 b-18 b+18 c x y z i	1 2 3 S L S L S L S L S L S L S L S L	8 4 5 Y A 5	6 7 S S P S S S P S S S S P S S S P S S S S P S S S	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R . Z 1 .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.066 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 377.183 347.204 330.177 136.075 Ala	4 407.229 390.202 389.218 435.224 418.197 417.213 453.234 452.250 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 609.335 592.309 60.044 Val	6 581,293 564,266 563,282 609,288 592,261 591,277 627,298 626,314 692,336 666,357 649,330 60,044 Gly	7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 749.358 749.358 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.389 846.410 820.431 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1082.5 1082.5 1064.5 1005.5 1091.5 1095.5 1095.5 1095.5 1095.5 1098.5 1064.5 1064.5 1064.5 1064.5
·····································	Ion a.17 a.17 b.18 b.17 b.18 b.18 c. x y z i i	1 2 5 S L S L S L S L S L S L S L S L	3 4 5 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2 Y A 2	6 7 S S P S S S P S	8 9 G G G G G G G G G G G G G G G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 1 T R .	60.044 43.018 42.034 88.039 71.013 70.029 106.050 105.068 201.098 175.119 158.092 60.044 Arg	2 173.128 156.102 155.118 201.123 184.097 183.113 219.134 219.134 218.150 302.146 276.167 259.140 86.096 Thr	3 336.192 319.165 318.181 364.187 347.160 346.176 382.197 381.213 373.183 347.204 330.177 136.075 Ala	4 407.229 380.202 389.218 435.224 418.197 417.213 453.234 453.234 453.236 536.246 510.267 493.241 44.049 Tyr	5 494.261 477.234 476.250 505.229 504.245 540.266 539.282 635.315 592.309 60.044 Val	6 581.293 564.266 563.282 609.288 592.261 591.277 627.298 626.314 692.336 666.357 649.330 60.044 Gly	7 678.346 661.319 660.335 706.341 688.330 724.351 723.367 749.358 723.378 706.352 70.065 Gly	8 735.367 718.341 717.357 763.362 746.336 745.352 781.373 780.388 846.410 803.405 30.033 Pro	9 792.389 775.362 774.378 802.384 803.357 802.373 838.394 837.410 933.442 907.463 890.437 30.033 Ser	10 891.457 874.431 873.446 919.452 902.425 901.441 937.463 936.479 1020.474 994.495 977.469 72.080 Ser	11 1054.5 1037.4 1036.5 1082.5 1082.5 1084.5 1005.5 1091.5 1091.5 1095.5 1091.5 1095.5 1098.5 1098.5 1098.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1088.5 1086.5 1097.4 1085.5 1086.5 1097.4 1085.5 1086.5 1097.4 1085.5 1085.5 1097.4 1085.5 1097.4 1095.5 1097.4 1095.5 1097.4 1095.5 1097.5 1007.5 1097.5 1097.5 1000000000000000000000000000000000000

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