Supplementary Information (SI) for RSC Chemical Biology.
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Table S-V

Band[#]	cm^{-1}	Vibrational origin	Ref.[##]
49*	1414	$-COO^-$ symmetric stretching in homocysteine	51
50	1438	CH_2 deformation & scissoring	45
51	1457	CH_2 wagging, CH_2/CH_3 deformation	45
52	1488	CH_2 scissoring in tyrosine	50
53	1502	NH_3 symmetric bending in tyrosine	50
54	1515	C−C−H & C−N stretching in tyrosine	50
55	1528	C4=C5 stretching in imidazole ring of deprotonated histidine (imidazolate)	93
56	1546	C2=C3 stretching in pyrrole ring of tryptophan	93
57	1575	C4=C5 stretching in imidazole ring of τ histidine tautomer	93
57*	1584	C4=C5 stretching in imidazole ring of π histidine tautomer	93
58	1598	$-COO^-$ asymmetric stretching in homocysteine NH_3 bending in methionine sulfoxide	51

[#]Numbers and colors are the same as those of the sub-bands shown in Fig. 8 of the main paper.

[##]Reference numbers are the same as those listed in the main paper.