

**Table S1. Summary of MRM transitions of 25 mitochondrial proteins.  
MT3 and MT7 correspond to light and heavy mTRAQ channels**

No.	Protein	Peptide	Precursor Ion (Da)	Product Ion (Da)	Dwell Time (ms)	Collision Energy
1	IPI00134961	[MT3]-GIAFEDVR	523.79	736.36	20	39.55
2	IPI00134961	[MT3]-GIAFEDVR	523.79	518.26	20	39.55
3	IPI00134961	[MT3]-GIAFEDVR	523.79	665.33	20	39.55
4	IPI00134961	[MT3]-GIAFEDVR	523.79	849.45	20	39.55
5	IPI00134961	[MT3]-IYQIYEGTAQIQR	861.96	1065.53	20	54.43
6	IPI00134961	[MT3]-IYQIYEGTAQIQR	861.96	1178.62	20	54.43
7	IPI00134961	[MT3]-SGEYPFPLIK[MT3]	715.91	854.55	20	48.00
8	IPI00134961	[MT3]-SGEYPFPLIK[MT3]	715.91	1017.61	20	48.00
9	IPI00134961	[MT7]-GIAFEDVR	525.79	736.36	20	39.55
10	IPI00134961	[MT7]-GIAFEDVR	525.79	518.26	20	39.55
11	IPI00134961	[MT7]-GIAFEDVR	525.79	665.33	20	39.55
12	IPI00134961	[MT7]-GIAFEDVR	525.79	849.45	20	39.55
13	IPI00134961	[MT7]-IYQIYEGTAQIQR	863.97	1065.53	20	54.43
14	IPI00134961	[MT7]-IYQIYEGTAQIQR	863.97	1178.62	20	54.43
15	IPI00134961	[MT7]-SGEYPFPLIK[MT7]	719.91	858.56	20	48.00
16	IPI00134961	[MT7]-SGEYPFPLIK[MT7]	719.91	1021.62	20	48.18
17	IPI00331251	[MT3]-ELVPIAAQLDR	682.90	883.50	20	46.55
18	IPI00331251	[MT3]-ELVPIAAQLDR	682.90	673.36	20	46.55
19	IPI00331251	[MT3]-ELVPIAAQLDR	682.90	982.57	20	46.55
20	IPI00331251	[MT3]-NAFGAPLTK[MT3]	599.85	726.45	20	42.89
21	IPI00331251	[MT3]-NAFGAPLTK[MT3]	599.85	873.52	20	42.89
22	IPI00331251	[MT3]-LQNIQFK[MT3]	585.85	675.42	20	42.28
23	IPI00331251	[MT3]-LQNIQFK[MT3]	585.85	789.46	20	42.28
24	IPI00331251	[MT7]-ELVPIAAQLDR	684.90	883.50	20	46.55
25	IPI00331251	[MT7]-ELVPIAAQLDR	684.90	673.36	20	46.55
26	IPI00331251	[MT7]-ELVPIAAQLDR	684.90	982.57	20	46.64
27	IPI00331251	[MT7]-NAFGAPLTK[MT7]	603.86	730.46	20	42.89
28	IPI00331251	[MT7]-NAFGAPLTK[MT7]	603.86	877.53	20	42.89
29	IPI00331251	[MT7]-LQNIQFK[MT7]	589.86	679.43	20	42.28
30	IPI00331251	[MT7]-LQNIQFK[MT7]	589.86	793.47	20	42.28
31	IPI00119203	[MT3]-ELVGPVAR	490.80	442.28	20	38.10
32	IPI00119203	[MT3]-ELVGPVAR	490.80	499.30	20	38.10
33	IPI00119203	[MT3]-ELVGPVAR	490.80	598.37	20	38.10
34	IPI00119203	[MT3]-ELVGPVAR	490.80	711.45	20	38.10
35	IPI00119203	[MT3]-ITAFVVER	537.82	649.37	20	40.16
36	IPI00119203	[MT3]-ITAFVVER	537.82	720.40	20	40.16
37	IPI00119203	[MT3]-ITAFVVER	537.82	821.45	20	40.16
38	IPI00119203	[MT7]-ELVGPVAR	492.80	442.28	20	38.10
39	IPI00119203	[MT7]-ELVGPVAR	492.80	499.30	20	38.10
40	IPI00119203	[MT7]-ELVGPVAR	492.80	598.37	20	38.10
41	IPI00119203	[MT7]-ELVGPVAR	492.80	711.45	20	38.10
42	IPI00119203	[MT7]-ITAFVVER	539.82	649.37	20	40.16
43	IPI00119203	[MT7]-ITAFVVER	539.82	720.40	20	40.16
44	IPI00119203	[MT7]-ITAFVVER	539.82	821.45	20	40.16
45	IPI00119203	[MT3]-VAVNILNNGR	605.36	573.31	20	43.14
46	IPI00119203	[MT3]-VAVNILNNGR	605.36	686.39	20	43.14
47	IPI00119203	[MT3]-VAVNILNNGR	605.36	899.51	20	43.14
48	IPI00119203	[MT7]-VAVNILNNGR	607.36	573.31	20	43.14
49	IPI00119203	[MT7]-VAVNILNNGR	607.36	686.39	20	43.14
50	IPI00119203	[MT7]-VAVNILNNGR	607.36	899.51	20	43.14
51	IPI00776047	[MT3]-AIASATEGGSVQIR	798.94	756.44	20	51.65
52	IPI00776047	[MT3]-AIASATEGGSVQIR	798.94	813.46	20	51.65

53	IPI00776047	[MT3]-AIASATEGGSVQIR	798.94	942.50	20	51.65
54	IPI00776047	[MT3]-AIASATEGGSVQIR	798.94	513.31	20	51.65
55	IPI00776047	[MT3]-AIASATEGGSVQIR	798.94	1043.55	20	51.65
56	IPI00776047	[MT3]-ATAQDNPK[MT3]	562.81	613.33	20	41.26
57	IPI00776047	[MT3]-ATAQDNPK[MT3]	562.81	812.43	20	41.26
58	IPI00776047	[MT3]-ELWFSDDPNVTK[MT3]	865.94	1015.51	20	54.60
59	IPI00776047	[MT3]-ELWFSDDPNVTK[MT3]	865.94	1162.57	20	54.60
60	IPI00776047	[MT3]-ELWFSDDPNVTK[MT3]	865.94	698.42	20	54.60
61	IPI00776047	[MT3]-GVIFYLR	504.31	598.33	20	38.69
62	IPI00776047	[MT3]-GVIFYLR	504.31	711.42	20	38.69
63	IPI00776047	[MT3]-GVIFYLR	336.54	451.27	20	27.26
64	IPI00776047	[MT3]-LFNIHED	514.26	627.27	20	39.13
65	IPI00776047	[MT3]-LFNIHED	343.18	400.15	20	27.45
66	IPI00776047	[MT3]-LNDGSQITFEK[MT3]	766.41	1049.56	20	50.22
67	IPI00776047	[MT3]-LNDGSQITFEK[MT3]	511.28	664.37	20	32.33
68	IPI00776047	[MT3]-TGGLEIDSDFGGFR	805.89	785.36	20	51.96
69	IPI00776047	[MT3]-TGGLEIDSDFGGFR	805.89	900.38	20	51.96
70	IPI00776047	[MT3]-TGGLEIDSDFGGFR	805.89	1013.47	20	51.96
71	IPI00776047	[MT3]-TGGLEIDSDFGGFR	805.89	1142.51	20	51.96
72	IPI00776047	[MT7]-AIASATEGGSVQIR	800.94	756.44	20	51.65
73	IPI00776047	[MT7]-AIASATEGGSVQIR	800.94	813.46	20	51.65
74	IPI00776047	[MT7]-AIASATEGGSVQIR	800.94	942.50	20	51.65
75	IPI00776047	[MT7]-AIASATEGGSVQIR	800.94	513.31	20	51.65
76	IPI00776047	[MT7]-AIASATEGGSVQIR	800.94	1043.55	20	51.65
77	IPI00776047	[MT7]-ATAQDNPK[MT7]	566.81	617.34	20	41.26
78	IPI00776047	[MT7]-ATAQDNPK[MT7]	566.81	816.43	20	41.26
79	IPI00776047	[MT7]-ELWFSDDPNVTK[MT7]	869.95	1019.51	20	54.60
80	IPI00776047	[MT7]-ELWFSDDPNVTK[MT7]	869.95	1166.58	20	54.60
81	IPI00776047	[MT7]-ELWFSDDPNVTK[MT7]	869.95	702.43	20	54.60
82	IPI00776047	[MT7]-GVIFYLR	506.31	598.33	20	38.69
83	IPI00776047	[MT7]-GVIFYLR	506.31	711.42	20	38.69
84	IPI00776047	[MT7]-GVIFYLR	337.88	451.27	20	27.26
85	IPI00776047	[MT7]-LFNIHED	516.27	627.27	20	39.13
86	IPI00776047	[MT7]-LFNIHED	344.51	400.15	20	27.45
87	IPI00776047	[MT7]-LNDGSQITFEK[MT7]	770.42	1053.57	20	50.22
88	IPI00776047	[MT7]-LNDGSQITFEK[MT7]	513.95	668.37	20	32.33
89	IPI00776047	[MT7]-TGGLEIDSDFGGFR	807.90	785.36	20	51.96
90	IPI00776047	[MT7]-TGGLEIDSDFGGFR	807.90	900.38	20	51.96
91	IPI00776047	[MT7]-TGGLEIDSDFGGFR	807.90	1013.47	20	51.96
92	IPI00776047	[MT7]-TGGLEIDSDFGGFR	807.90	1142.51	20	51.96
93	IPI00648318	[MT3]-AVLLGPPGAGK[MT3]	630.40	666.39	20	44.24
94	IPI00648318	[MT3]-AVLLGPPGAGK[MT3]	630.40	723.41	20	44.24
95	IPI00648318	[MT3]-AVLLGPPGAGK[MT3]	630.40	836.50	20	44.24
96	IPI00648318	[MT3]-NGFLLDGFPR	638.35	591.29	20	44.59
97	IPI00648318	[MT3]-NGFLLDGFPR	638.35	704.37	20	44.59
98	IPI00648318	[MT3]-LEAYHTQTTPLVEYYR	708.70	729.36	20	38.05
99	IPI00648318	[MT3]-LEAYHTQTTPLVEYYR	708.70	842.44	20	38.05
100	IPI00648318	[MT3]-LEAYHTQTTPLVEYYR	708.70	939.49	20	38.05
101	IPI00648318	[MT7]-AVLLGPPGAGK[MT7]	634.40	670.40	20	44.24
102	IPI00648318	[MT7]-AVLLGPPGAGK[MT7]	634.40	727.42	20	44.24
103	IPI00648318	[MT7]-AVLLGPPGAGK[MT7]	634.40	840.51	20	44.24
104	IPI00648318	[MT7]-NGFLLDGFPR	640.35	591.29	20	44.59
105	IPI00648318	[MT7]-NGFLLDGFPR	640.35	704.37	20	44.59
106	IPI00648318	[MT7]-LEAYHTQTTPLVEYYR	710.03	729.36	20	38.05
107	IPI00648318	[MT7]-LEAYHTQTTPLVEYYR	710.03	842.44	20	38.05
108	IPI00648318	[MT7]-LEAYHTQTTPLVEYYR	710.03	939.49	20	38.05

109	IPI00134746	[MT3]-EFVEEFIWPAVQSSALYB	852.42	1238.60	20	42.22
110	IPI00134746	[MT3]-EFVEEFIWPAVQSSALYB	852.42	1335.65	20	42.22
111	IPI00134746	[MT3]-EFVEEFIWPAVQSSALYB	852.42	1521.73	20	42.22
112	IPI00134746	[MT3]-EQGYDVIAYLANIGQK[M	688.04	1117.64	20	37.45
113	IPI00134746	[MT3]-EQGYDVIAYLANIGQK[M	688.04	1230.72	20	37.45
114	IPI00134746	[MT3]-GQVYILGR	523.31	621.37	20	39.53
115	IPI00134746	[MT3]-GQVYILGR	523.31	720.44	20	39.53
116	IPI00134746	[MT3]-NQAPPGLYTK[MT3]	684.89	818.48	20	46.64
117	IPI00134746	[MT3]-NQAPPGLYTK[MT3]	684.89	915.53	20	46.64
118	IPI00134746	[MT7]-EFVEEFIWPAVQSSALYB	853.76	1238.60	20	42.22
119	IPI00134746	[MT7]-EFVEEFIWPAVQSSALYB	853.76	1335.65	20	42.22
120	IPI00134746	[MT7]-EFVEEFIWPAVQSSALYB	853.76	1521.73	20	42.22
121	IPI00134746	[MT7]-EQGYDVIAYLANIGQK[M	690.71	1121.64	20	37.45
122	IPI00134746	[MT7]-EQGYDVIAYLANIGQK[M	690.71	1234.73	20	37.45
123	IPI00134746	[MT7]-GQVYILGR	525.31	621.37	20	39.53
124	IPI00134746	[MT7]-GQVYILGR	525.31	720.44	20	39.53
125	IPI00134746	[MT7]-NQAPPGLYTK[MT7]	688.89	822.48	20	46.64
126	IPI00134746	[MT7]-NQAPPGLYTK[MT7]	688.89	919.54	20	46.64
127	IPI00856424	[MT3]-ELDPVQK[MT3]	554.82	611.39	20	40.91
128	IPI00856424	[MT3]-ELDPVQK[MT3]	554.82	726.41	20	40.91
129	IPI00856424	[MT3]-ELDPVQK[MT3]	554.82	839.50	20	40.91
130	IPI00856424	[MT3]-ELDPVQK[MT3]	370.22	514.33	20	28.24
131	IPI00856424	[MT3]-NIGVTAVAFNK[MT3]	707.41	789.46	20	47.63
132	IPI00856424	[MT3]-NIGVTAVAFNK[MT3]	471.95	548.32	20	31.19
133	IPI00856424	[MT3]-QASGGPVDIGPEYQQDL	729.02	774.37	20	38.64
134	IPI00856424	[MT3]-QASGGPVDIGPEYQQDL	729.02	937.44	20	38.64
135	IPI00856424	[MT3]-QASGGPVDIGPEYQQDL	729.02	1066.48	20	38.64
136	IPI00856424	[MT3]-SAVSVHLK[MT3]	560.85	723.45	20	41.18
137	IPI00856424	[MT3]-SAVSVHLK[MT3]	560.85	822.52	20	41.18
138	IPI00856424	[MT7]-ELDPVQK[MT7]	558.83	615.39	20	40.91
139	IPI00856424	[MT7]-ELDPVQK[MT7]	558.83	730.42	20	40.91
140	IPI00856424	[MT7]-ELDPVQK[MT7]	558.83	843.51	20	40.91
141	IPI00856424	[MT7]-ELDPVQK[MT7]	372.89	518.34	20	28.24
142	IPI00856424	[MT7]-NIGVTAVAFNK[MT7]	711.42	793.47	20	47.63
143	IPI00856424	[MT7]-NIGVTAVAFNK[MT7]	474.62	552.33	20	31.19
144	IPI00856424	[MT7]-QASGGPVDIGPEYQQDL	730.36	774.37	20	38.64
145	IPI00856424	[MT7]-QASGGPVDIGPEYQQDL	730.36	937.44	20	38.64
146	IPI00856424	[MT7]-QASGGPVDIGPEYQQDL	730.36	1066.48	20	38.64
147	IPI00856424	[MT7]-SAVSVHLK[MT7]	564.85	727.46	20	41.18
148	IPI00856424	[MT7]-SAVSVHLK[MT7]	564.85	826.53	20	41.18
149	IPI00114209	[MT3]-DDGSWEVIEGYR	783.37	736.40	20	50.97
150	IPI00114209	[MT3]-DDGSWEVIEGYR	783.37	865.44	20	50.97
151	IPI00114209	[MT3]-IIAEGANGPTTPEADK[M	932.49	1169.58	20	57.53
152	IPI00114209	[MT3]-TAAYVNAIEK[MT3]	680.39	813.48	20	46.44
153	IPI00114209	[MT3]-TAAYVNAIEK[MT3]	680.39	976.55	20	46.44
154	IPI00114209	[MT3]-TAAYVNAIEK[MT3]	680.39	1047.58	20	46.44
155	IPI00114209	[MT3]-YSTDVSVDDEVK[MT3]	761.39	816.45	20	50.00
156	IPI00114209	[MT3]-YSTDVSVDDEVK[MT3]	761.39	915.51	20	50.00
157	IPI00114209	[MT7]-DDGSWEVIEGYR	785.37	736.40	20	50.97
158	IPI00114209	[MT7]-DDGSWEVIEGYR	785.37	865.44	20	50.97
159	IPI00114209	[MT7]-IIAEGANGPTTPEADK[M	936.50	1173.59	20	57.53
160	IPI00114209	[MT7]-TAAYVNAIEK[MT7]	684.39	817.49	20	46.44
161	IPI00114209	[MT7]-TAAYVNAIEK[MT7]	684.39	980.55	20	46.44
162	IPI00114209	[MT7]-TAAYVNAIEK[MT7]	684.39	1051.59	20	46.44
163	IPI00114209	[MT7]-YSTDVSVDDEVK[MT7]	765.40	820.45	20	50.00
164	IPI00114209	[MT7]-YSTDVSVDDEVK[MT7]	765.40	919.52	20	50.00

165	IPI00117312	[MT3]-ASAELALGENNEVLK[MT	919.50	1042.55	20	56.96
166	IPI00117312	[MT3]-ASAELALGENNEVLK[MT	919.50	1155.64	20	56.96
167	IPI00117312	[MT3]-FVTVQTISGTGALR	795.45	774.45	20	51.50
168	IPI00117312	[MT3]-FVTVQTISGTGALR	795.45	875.49	20	51.50
169	IPI00117312	[MT3]-FVTVQTISGTGALR	795.45	1003.55	20	51.50
170	IPI00117312	[MT3]-IAATILTSPDLR	705.92	688.36	20	47.56
171	IPI00117312	[MT3]-IAATILTSPDLR	705.92	801.45	20	47.56
172	IPI00117312	[MT3]-IAATILTSPDLR	705.92	914.53	20	47.56
173	IPI00117312	[MT7]-ASAELALGENNEVLK[MT	923.51	1046.56	20	56.96
174	IPI00117312	[MT7]-ASAELALGENNEVLK[MT	923.51	1159.64	20	56.96
175	IPI00117312	[MT7]-FVTVQTISGTGALR	797.46	774.45	20	51.50
176	IPI00117312	[MT7]-FVTVQTISGTGALR	797.46	875.49	20	51.50
177	IPI00117312	[MT7]-FVTVQTISGTGALR	797.46	1003.55	20	51.50
178	IPI00117312	[MT7]-IAATILTSPDLR	707.92	688.36	20	47.56
179	IPI00117312	[MT7]-IAATILTSPDLR	707.92	801.45	20	47.56
180	IPI00117312	[MT7]-IAATILTSPDLR	707.92	914.53	20	47.56
181	IPI00115607	[MT3]-DFIYVSQDPK[MT3]	746.40	813.45	20	49.34
182	IPI00115607	[MT3]-DFIYVSQDPK[MT3]	746.40	976.51	20	49.34
183	IPI00115607	[MT3]-DFIYVSQDPK[MT3]	746.40	1089.59	20	49.34
184	IPI00115607	[MT3]-LAAAFVSR	523.31	579.32	20	39.53
185	IPI00115607	[MT3]-LAAAFVSR	523.31	650.36	20	39.53
186	IPI00115607	[MT3]-LAAAFVSR	523.31	721.40	20	39.53
187	IPI00115607	[MT3]-VGSPPLEK[MT3]	553.83	626.39	20	40.87
188	IPI00115607	[MT3]-VGSPPLEK[MT3]	553.83	723.44	20	40.87
189	IPI00115607	[MT3]-VGSPPLEK[MT3]	553.83	810.47	20	40.87
190	IPI00115607	[MT7]-DFIYVSQDPK[MT7]	750.40	817.45	20	49.34
191	IPI00115607	[MT7]-DFIYVSQDPK[MT7]	750.40	980.52	20	49.34
192	IPI00115607	[MT7]-DFIYVSQDPK[MT7]	500.60	1093.60	20	31.94
193	IPI00115607	[MT7]-DFIYVSQDPK[MT7]	525.31	579.32	20	39.53
194	IPI00115607	[MT7]-LAAAFVSR	750.40	1093.60	20	49.34
195	IPI00115607	[MT7]-LAAAFVSR	525.31	650.36	20	39.53
196	IPI00115607	[MT7]-LAAAFVSR	525.31	721.40	20	39.53
197	IPI00115607	[MT7]-VGSPPLEK[MT7]	557.84	630.39	20	40.87
198	IPI00115607	[MT7]-VGSPPLEK[MT7]	557.84	727.45	20	40.87
199	IPI00115607	[MT7]-VGSPPLEK[MT7]	557.84	814.48	20	40.87
200	IPI00454049	[MT3]-AFAAGADIK[MT3]	572.33	643.38	20	41.68
201	IPI00454049	[MT3]-AFAAGADIK[MT3]	572.33	714.41	20	41.68
202	IPI00454049	[MT3]-AFAAGADIK[MT3]	572.33	785.45	20	41.68
203	IPI00454049	[MT3]-AFAAGADIK[MT3]	381.89	515.32	20	28.58
204	IPI00454049	[MT3]-AQFGQPEILLGTIPGAGG	751.08	743.38	20	39.28
205	IPI00454049	[MT3]-AQFGQPEILLGTIPGAGG	751.08	1127.62	20	39.28
206	IPI00454049	[MT3]-AQFGQPEILLGTIPGAGG	751.08	1240.70	20	39.28
207	IPI00454049	[MT3]-AQFGQPEILLGTIPGAGG	751.08	1353.78	20	39.28
208	IPI00454049	[MT3]-FLSHWDHITR	484.59	526.31	20	31.55
209	IPI00454049	[MT3]-FLSHWDHITR	484.59	641.34	20	31.55
210	IPI00454049	[MT3]-FLSHWDHITR	484.59	827.42	20	31.55
211	IPI00454049	[MT3]-FLSHWDHITR	484.59	964.47	20	31.55
212	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	853.51	895.55	20	54.05
213	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	853.51	1008.63	20	54.05
214	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	853.51	1121.72	20	54.05
215	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	569.34	654.40	20	34.01
216	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	569.34	895.55	20	34.01
217	IPI00454049	[MT3]-NSSVGLIQLNRPK[MT3]	569.34	767.49	20	34.01
218	IPI00454049	[MT7]-AFAAGADIK[MT7]	576.34	647.38	20	41.68
219	IPI00454049	[MT7]-AFAAGADIK[MT7]	576.34	718.42	20	41.68
220	IPI00454049	[MT7]-AFAAGADIK[MT7]	576.34	789.46	20	41.68

221	IPI00454049	[MT7]-AFAAGADIK[MT7]	576.34	519.33	20	41.68
222	IPI00454049	[MT7]-AFAAGADIK[MT7]	384.56	505.29	20	28.58
223	IPI00454049	[MT7]-AFAAGADIK[MT7]	384.56	519.33	20	28.58
224	IPI00454049	[MT7]-AQFGQPEILLGTIPGAGG	752.41	743.38	20	39.28
225	IPI00454049	[MT7]-AQFGQPEILLGTIPGAGG	752.41	1127.62	20	39.28
226	IPI00454049	[MT7]-AQFGQPEILLGTIPGAGG	752.41	1240.70	20	39.28
227	IPI00454049	[MT7]-AQFGQPEILLGTIPGAGG	752.41	1353.78	20	39.28
228	IPI00454049	[MT7]-FLSHWDHITR	728.38	526.31	20	48.46
229	IPI00454049	[MT7]-FLSHWDHITR	728.38	641.34	20	48.46
230	IPI00454049	[MT7]-FLSHWDHITR	728.38	827.42	20	48.46
231	IPI00454049	[MT7]-FLSHWDHITR	485.93	526.31	20	31.55
232	IPI00454049	[MT7]-FLSHWDHITR	485.93	641.34	20	31.55
233	IPI00454049	[MT7]-FLSHWDHITR	485.93	827.42	20	31.55
234	IPI00454049	[MT7]-FLSHWDHITR	485.93	964.47	20	31.55
235	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	857.51	899.55	20	54.05
236	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	857.51	1012.64	20	54.05
237	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	857.51	1125.72	20	54.05
238	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	572.01	658.41	20	34.01
239	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	857.51	771.50	20	54.05
240	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	572.01	899.55	20	34.01
241	IPI00454049	[MT7]-NSSVGLIQLNRPK[MT7]	572.01	771.50	20	34.01
242	IPI00226140	[MT3]-ELGLETYK[MT3]	616.85	680.36	20	43.64
243	IPI00226140	[MT3]-ELGLETYK[MT3]	616.85	793.45	20	43.64
244	IPI00226140	[MT3]-ELGLETYK[MT3]	616.85	850.47	20	43.64
245	IPI00226140	[MT3]-ELGLETYK[MT3]	411.57	551.32	20	29.44
246	IPI00226140	[MT3]-VLNSQEALQPVHYEEK[M	722.05	845.42	20	38.44
247	IPI00226140	[MT3]-VLNSQEALQPVHYEEK[M	1082.57	1041.54	20	64.13
248	IPI00226140	[MT3]-VLNSQEALQPVHYEEK[M	1082.57	1282.68	20	64.13
249	IPI00226140	[MT3]-VPLGSVIK[MT3]	546.86	643.41	20	40.56
250	IPI00226140	[MT3]-VPLGSVIK[MT3]	546.86	756.50	20	40.56
251	IPI00226140	[MT3]-VPLGSVIK[MT3]	364.91	499.36	20	28.08
252	IPI00226140	[MT3]-YVDLGGSYVGPTQNR	883.45	934.47	20	55.37
253	IPI00226140	[MT3]-YVDLGGSYVGPTQNR	883.45	1021.51	20	55.37
254	IPI00226140	[MT3]-YVDLGGSYVGPTQNR	883.45	1078.53	20	55.37
255	IPI00226140	[MT3]-YVDLGGSYVGPTQNR	589.30	615.32	20	34.59
256	IPI00226140	[MT3]-YVDLGGSYVGPTQNR	883.45	672.34	20	55.37
257	IPI00226140	[MT7]-ELGLETYK[MT7]	620.85	684.37	20	43.64
258	IPI00226140	[MT7]-ELGLETYK[MT7]	620.85	797.45	20	43.64
259	IPI00226140	[MT7]-ELGLETYK[MT7]	620.85	854.47	20	43.64
260	IPI00226140	[MT7]-ELGLETYK[MT7]	414.24	555.33	20	29.44
261	IPI00226140	[MT7]-VLNSQEALQPVHYEEK[M	724.72	849.42	20	38.44
262	IPI00226140	[MT7]-VLNSQEALQPVHYEEK[M	1086.58	1045.54	20	64.13
263	IPI00226140	[MT7]-VLNSQEALQPVHYEEK[M	1086.58	1286.69	20	64.13
264	IPI00226140	[MT7]-VPLGSVIK[MT7]	550.87	647.42	20	40.56
265	IPI00226140	[MT7]-VPLGSVIK[MT7]	550.87	760.50	20	40.56
266	IPI00226140	[MT7]-VPLGSVIK[MT7]	367.58	503.37	20	28.08
267	IPI00226140	[MT7]-YVDLGGSYVGPTQNR	885.45	934.47	20	55.37
268	IPI00226140	[MT7]-YVDLGGSYVGPTQNR	885.45	1021.51	20	55.37
269	IPI00226140	[MT7]-YVDLGGSYVGPTQNR	885.45	1078.53	20	55.37
270	IPI00226140	[MT7]-YVDLGGSYVGPTQNR	590.64	615.32	20	34.59
271	IPI00226140	[MT7]-YVDLGGSYVGPTQNR	885.45	672.34	20	55.37
272	IPI00263863	[MT3]-VLQATVAVGSGGK[MT	783.47	814.48	20	50.97
273	IPI00263863	[MT3]-VLQATVAVGSGGK[MT	783.47	913.55	20	50.97
274	IPI00263863	[MT3]-SGEIEPVSVK[MT3]	662.88	798.47	20	45.67
275	IPI00263863	[MT3]-SGEIEPVSVK[MT3]	662.88	911.56	20	45.67
276	IPI00263863	[MT3]-SGEIEPVSVK[MT3]	662.88	669.43	20	45.67

277	IPI00263863	[MT3]-VLLPEYGGTK[MT3]	678.90	891.46	20	46.37
278	IPI00263863	[MT3]-VLLPEYGGTK[MT3]	678.90	1004.54	20	46.37
279	IPI00263863	[MT7]-VLQATVVAVGSGGK[MT7]	787.48	818.49	20	50.97
280	IPI00263863	[MT7]-VLQATVVAVGSGGK[MT7]	787.48	917.55	20	50.97
281	IPI00263863	[MT7]-SGEIEPVSVK[MT7]	666.88	802.48	20	45.67
282	IPI00263863	[MT7]-SGEIEPVSVK[MT7]	666.88	915.56	20	45.67
283	IPI00263863	[MT7]-SGEIEPVSVK[MT7]	666.88	673.44	20	45.67
284	IPI00263863	[MT7]-VLLPEYGGTK[MT7]	682.90	895.46	20	46.37
285	IPI00263863	[MT7]-VLLPEYGGTK[MT7]	682.90	1008.55	20	46.55
286	IPI00381412	[MT3]-LSEQELEFR	645.84	821.42	20	44.92
287	IPI00381412	[MT3]-LSEQELEFR	645.84	950.46	20	44.92
288	IPI00381412	[MT3]-QHIELALEK[MT3]	680.90	600.37	20	46.46
289	IPI00381412	[MT3]-QHIELALEK[MT3]	680.90	713.46	20	46.46
290	IPI00381412	[MT3]-TFDSAVAK[MT3]	559.81	730.41	20	41.13
291	IPI00381412	[MT3]-TFDSAVAK[MT3]	559.81	877.48	20	41.13
292	IPI00381412	[MT7]-LSEQELEFR	647.84	821.42	20	44.92
293	IPI00381412	[MT7]-LSEQELEFR	647.84	950.46	20	44.92
294	IPI00381412	[MT7]-QHIELALEK[MT7]	684.91	604.38	20	46.46
295	IPI00381412	[MT7]-QHIELALEK[MT7]	684.91	717.46	20	46.46
296	IPI00381412	[MT7]-TFDSAVAK[MT7]	563.82	734.42	20	41.13
297	IPI00381412	[MT7]-TFDSAVAK[MT7]	563.82	881.48	20	41.13
298	IPI00125929	[MT3]-FYSVNVDYSK[MT3]	751.39	865.44	20	49.56
299	IPI00125929	[MT3]-FYSVNVDYSK[MT3]	751.39	1051.54	20	49.56
300	IPI00125929	[MT3]-FYSVNVDYSK[MT3]	751.39	652.33	20	49.56
301	IPI00125929	[MT3]-LALFNPVSWDR	786.91	874.41	20	51.12
302	IPI00125929	[MT3]-LALFNPVSWDR	786.91	988.45	20	51.12
303	IPI00125929	[MT3]-LALFNPVSWDR	786.91	563.26	20	51.12
304	IPI00125929	[MT3]-LGPNEQYK[MT3]	614.84	918.47	20	43.55
305	IPI00125929	[MT3]-LGPNEQYK[MT3]	614.84	975.49	20	43.55
306	IPI00125929	[MT3]-NNPEPWNK[MT3]	639.83	684.38	20	44.65
307	IPI00125929	[MT3]-NNPEPWNK[MT3]	639.83	813.43	20	44.65
308	IPI00125929	[MT3]-NNPEPWNK[MT3]	639.83	910.48	20	44.65
309	IPI00125929	[MT7]-FYSVNVDYSK[MT7]	755.39	869.45	20	49.56
310	IPI00125929	[MT7]-FYSVNVDYSK[MT7]	755.39	1055.55	20	49.56
311	IPI00125929	[MT7]-FYSVNVDYSK[MT7]	755.39	656.34	20	49.56
312	IPI00125929	[MT7]-LALFNPVSWDR	788.92	874.41	20	51.12
313	IPI00125929	[MT7]-LALFNPVSWDR	788.92	988.45	20	51.12
314	IPI00125929	[MT7]-LALFNPVSWDR	788.92	563.26	20	51.12
315	IPI00125929	[MT7]-LGPNEQYK[MT7]	618.84	922.48	20	43.55
316	IPI00125929	[MT7]-LGPNEQYK[MT7]	618.84	979.50	20	43.73
317	IPI00125929	[MT7]-NNPEPWNK[MT7]	643.84	688.39	20	44.65
318	IPI00125929	[MT7]-NNPEPWNK[MT7]	643.84	817.43	20	44.65
319	IPI00125929	[MT7]-NNPEPWNK[MT7]	643.84	914.49	20	44.65
320	IPI00132042	[MT3]-DFLIPIGK[MT3]	591.87	667.45	20	42.54
321	IPI00132042	[MT3]-DFLIPIGK[MT3]	591.87	780.53	20	42.54
322	IPI00132042	[MT3]-DFLIPIGK[MT3]	394.91	554.37	20	28.95
323	IPI00132042	[MT3]-DIIFAVK[MT3]	543.34	604.38	20	40.41
324	IPI00132042	[MT3]-DIIFAVK[MT3]	543.34	717.47	20	40.41
325	IPI00132042	[MT3]-VLEDNSVPQVK[MT3]	754.43	797.49	20	49.70
326	IPI00132042	[MT3]-VLEDNSVPQVK[MT3]	754.43	911.53	20	49.70
327	IPI00132042	[MT7]-DFLIPIGK[MT7]	595.87	671.46	20	42.54
328	IPI00132042	[MT7]-DFLIPIGK[MT7]	595.87	784.54	20	42.54
329	IPI00132042	[MT7]-DFLIPIGK[MT7]	397.58	558.37	20	28.95
330	IPI00132042	[MT7]-DIIFAVK[MT7]	547.35	608.39	20	40.41
331	IPI00132042	[MT7]-DIIFAVK[MT7]	547.35	721.47	20	40.41
332	IPI00132042	[MT7]-VLEDNSVPQVK[MT7]	758.43	801.50	20	49.70

333	IPI00132042	[MT7]-VLEDNSVPQVK[MT7]	758.43	915.54	20	49.70
334	IPI00475031	[MT3]-LLADPTGAFGK[MT3]	685.40	817.46	20	46.66
335	IPI00475031	[MT3]-LLADPTGAFGK[MT3]	685.40	932.48	20	46.66
336	IPI00475031	[MT3]-THLPGFVEQAGALK[MT3]	583.33	727.45	20	34.42
337	IPI00475031	[MT3]-THLPGFVEQAGALK[MT3]	583.33	856.49	20	34.42
338	IPI00475031	[MT3]-VNLAELFK[MT3]	607.37	747.44	20	43.22
339	IPI00475031	[MT3]-VNLAELFK[MT3]	607.37	860.52	20	43.22
340	IPI00475031	[MT7]-LLADPTGAFGK[MT7]	689.40	821.46	20	46.66
341	IPI00475031	[MT7]-LLADPTGAFGK[MT7]	689.40	936.49	20	46.66
342	IPI00475031	[MT7]-THLPGFVEQAGALK[MT7]	878.50	731.45	20	54.98
343	IPI00475031	[MT7]-THLPGFVEQAGALK[MT7]	878.50	860.50	20	54.98
344	IPI00475031	[MT7]-THLPGFVEQAGALK[MT7]	586.00	731.45	20	34.42
345	IPI00475031	[MT7]-THLPGFVEQAGALK[MT7]	586.00	860.50	20	34.42
346	IPI00475031	[MT7]-VNLAELFK[MT7]	611.38	751.45	20	43.22
347	IPI00475031	[MT7]-VNLAELFK[MT7]	611.38	864.53	20	43.22
348	IPI00223216	[MT3]-TYEQVLENLQSK[MT3]	866.47	1070.62	20	54.63
349	IPI00223216	[MT3]-TYEQVLENLQSK[MT3]	866.47	1198.68	20	54.63
350	IPI00223216	[MT3]-TYEQVLENLQSK[MT3]	866.47	858.47	20	54.63
351	IPI00223216	[MT3]-VLDASWYSPGTR	746.38	866.42	20	49.34
352	IPI00223216	[MT3]-VLDASWYSPGTR	746.38	953.45	20	49.34
353	IPI00223216	[MT3]-VLDASWYSPGTR	746.38	680.34	20	49.34
354	IPI00223216	[MT7]-TYEQVLENLQSK[MT7]	870.47	1074.63	20	54.63
355	IPI00223216	[MT7]-TYEQVLENLQSK[MT7]	870.47	1202.69	20	54.63
356	IPI00223216	[MT7]-TYEQVLENLQSK[MT7]	870.47	862.48	20	54.80
357	IPI00223216	[MT7]-VLDASWYSPGTR	748.39	866.42	20	49.34
358	IPI00223216	[MT7]-VLDASWYSPGTR	748.39	953.45	20	49.34
359	IPI00223216	[MT7]-VLDASWYSPGTR	748.39	680.34	20	49.43
360	IPI00110578	[MT3]-LQIQVDEK[MT3]	626.87	758.40	20	44.08
361	IPI00110578	[MT3]-LQIQVDEK[MT3]	626.87	871.49	20	44.08
362	IPI00110578	[MT3]-TVEEALTIK[MT3]	642.38	814.50	20	44.77
363	IPI00110578	[MT3]-TVEEALTIK[MT3]	642.38	943.55	20	44.77
364	IPI00110578	[MT7]-LQIQVDEK[MT7]	630.87	762.41	20	44.08
365	IPI00110578	[MT7]-LQIQVDEK[MT7]	630.87	875.50	20	44.08
366	IPI00110578	[MT7]-TVEEALTIK[MT7]	646.39	818.51	20	44.77
367	IPI00110578	[MT7]-TVEEALTIK[MT7]	646.39	947.55	20	44.77
368	IPI00475322	[MT3]-ALQLLSSANPVR	704.92	843.47	20	47.52
369	IPI00475322	[MT3]-ALQLLSSANPVR	704.92	956.55	20	47.52
370	IPI00475322	[MT3]-TEPIPVTAK[MT3]	618.37	655.41	20	43.71
371	IPI00475322	[MT3]-TEPIPVTAK[MT3]	618.37	865.55	20	43.71
372	IPI00475322	[MT7]-ALQLLSSANPVR	706.92	843.47	20	47.52
373	IPI00475322	[MT7]-ALQLLSSANPVR	706.92	956.55	20	47.52
374	IPI00475322	[MT7]-TEPIPVTAK[MT7]	622.38	659.42	20	43.71
375	IPI00475322	[MT7]-TEPIPVTAK[MT7]	622.38	869.56	20	43.71
376	IPI00120719	[MT3]-LNDFASAVR	566.81	650.36	20	41.44
377	IPI00120719	[MT3]-LNDFASAVR	566.81	765.39	20	41.44
378	IPI00120719	[MT3]-LNDFASAVR	566.81	879.43	20	41.44
379	IPI00120719	[MT3]-LNDFASAVR	378.21	432.26	20	28.47
380	IPI00120719	[MT7]-LNDFASAVR	568.81	650.36	20	41.44
381	IPI00120719	[MT7]-LNDFASAVR	568.81	765.39	20	41.44
382	IPI00120719	[MT7]-LNDFASAVR	568.81	879.43	20	41.44
383	IPI00120719	[MT7]-LNDFASAVR	379.54	432.26	20	28.47
384	IPI00135939	[MT3]-VPEAVADV	548.31	630.36	20	40.63
385	IPI00135939	[MT3]-VPEAVADV	548.31	759.40	20	40.63
386	IPI00135939	[MT7]-VPEAVADV	550.31	630.36	20	40.63
387	IPI00135939	[MT7]-VPEAVADV	550.31	759.40	20	40.63
388	IPI00136201	[MT3]-LDLSSLAYSGK[MT3]	717.40	778.45	20	48.07

389	IPI00136201	[MT3]-LDLSSLAYSGK[MT3]	478.60	594.32	20	31.38
390	IPI00136201	[MT3]-LDLSSLAYSGK[MT3]	478.60	778.45	20	31.38
391	IPI00136201	[MT3]-LDLSSLAYSGK[MT3]	478.60	665.36	20	31.38
392	IPI00136201	[MT3]-QSVC[CAM]VVHLR	619.35	623.40	20	43.75
393	IPI00136201	[MT3]-QSVC[CAM]VVHLR	721.41	782.45	20	48.07
394	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	413.23	623.40	20	29.48
395	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	721.41	598.33	20	48.07
396	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	721.41	669.37	20	48.07
397	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	481.28	598.33	20	31.38
398	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	481.28	782.45	20	31.38
399	IPI00136201	[MT7]-LDLSSLAYSGK[MT7]	481.28	669.37	20	31.38
400	IPI00136201	[MT7]-QSVC[CAM]VVHLR	621.35	623.40	20	43.75
401	IPI00136201	[MT7]-QSVC[CAM]VVHLR	613.83	684.37	20	43.51
402	IPI00224210	[MT3]-AFPSYFSK[MT3]	414.57	623.40	20	29.48
403	IPI00224210	[MT3]-AFPSYFSK[MT3]	613.83	771.40	20	43.51
404	IPI00224210	[MT3]-AFPSYFSK[MT3]	613.83	868.46	20	43.51
405	IPI00224210	[MT3]-EFGNLAR	473.76	530.30	20	37.35
406	IPI00224210	[MT3]-EFGNLAR	473.76	677.37	20	37.35
407	IPI00224210	[MT3]-HVISYSLSPFEQR	568.30	676.34	20	33.98
408	IPI00224210	[MT3]-HVISYSLSPFEQR	568.30	763.37	20	33.98
409	IPI00224210	[MT7]-AFPSYFSK[MT7]	617.84	688.38	20	43.51
410	IPI00224210	[MT7]-AFPSYFSK[MT7]	617.84	775.41	20	43.51
411	IPI00224210	[MT7]-AFPSYFSK[MT7]	617.84	872.46	20	43.51
412	IPI00224210	[MT7]-EFGNLAR	475.76	530.30	20	37.35
413	IPI00224210	[MT7]-EFGNLAR	475.76	677.37	20	37.35
414	IPI00224210	[MT7]-HVISYSLSPFEQR	853.95	676.34	20	53.99
415	IPI00224210	[MT7]-HVISYSLSPFEQR	853.95	763.37	20	53.99
416	IPI00224210	[MT7]-HVISYSLSPFEQR	569.64	676.34	20	33.98
417	IPI00224210	[MT7]-HVISYSLSPFEQR	569.64	763.37	20	33.98
418	IPI00760006	[MT3]-VYFHTDAAQAVGK[MT3]	562.97	642.39	20	33.83
419	IPI00760006	[MT3]-VYFHTDAAQAVGK[MT3]	562.97	713.43	20	33.83
420	IPI00760006	[MT3]-VYFHTDAAQAVGK[MT3]	562.97	784.47	20	33.83
421	IPI00760006	[MT7]-VYFHTDAAQAVGK[MT7]	565.64	646.40	20	33.83
422	IPI00760006	[MT7]-VYFHTDAAQAVGK[MT7]	565.64	717.44	20	33.83
423	IPI00760006	[MT7]-VYFHTDAAQAVGK[MT7]	847.96	788.47	20	53.63
424	IPI00760006	[MT7]-VYFHTDAAQAVGK[MT7]	601.86	727.42	20	42.98
425	IPI00116228	[MT3]-HVVFGHVK[MT3]	565.64	788.47	20	33.83
426	IPI00116228	[MT3]-HVVFGHVK[MT3]	601.86	826.49	20	42.98
427	IPI00116228	[MT3]-HVVFGHVK[MT3]	401.58	523.34	20	29.15
428	IPI00116228	[MT3]-LLGLLSGPR	533.34	642.39	20	39.97
429	IPI00116228	[MT3]-LLGLLSGPR	533.34	699.41	20	39.97
430	IPI00116228	[MT7]-HVVFGHVK[MT7]	605.87	731.43	20	42.98