

Slide 2. Spectrum from the Kuster dataset validating the *OR5K5* olfactory receptor.
Spectrum for peptide SSAAMAK

Slide 3. Spectrum from the Kuster dataset validating the *OR52I1* olfactory receptor.
Spectrum for peptide AVFDLSSK

Slide 4. Spectrum from the Kuster dataset validating the *OR52P1* olfactory receptor.
Spectrum for peptide VFQSGQGMGIK

Slide 5. Spectrum from the Kuster dataset validating the *OR52N1* olfactory receptor.
Spectrum for peptide QIQEGVIK

Slide 6. Spectrum from the Kuster dataset validating the *OR6B3* olfactory receptor.
Spectrum for peptide EFKNALK

Slide 7. Spectrum from the Kuster dataset validating the *OR3A3* olfactory receptor.
Spectrum for peptide NTDVQGALCQLLVGKR

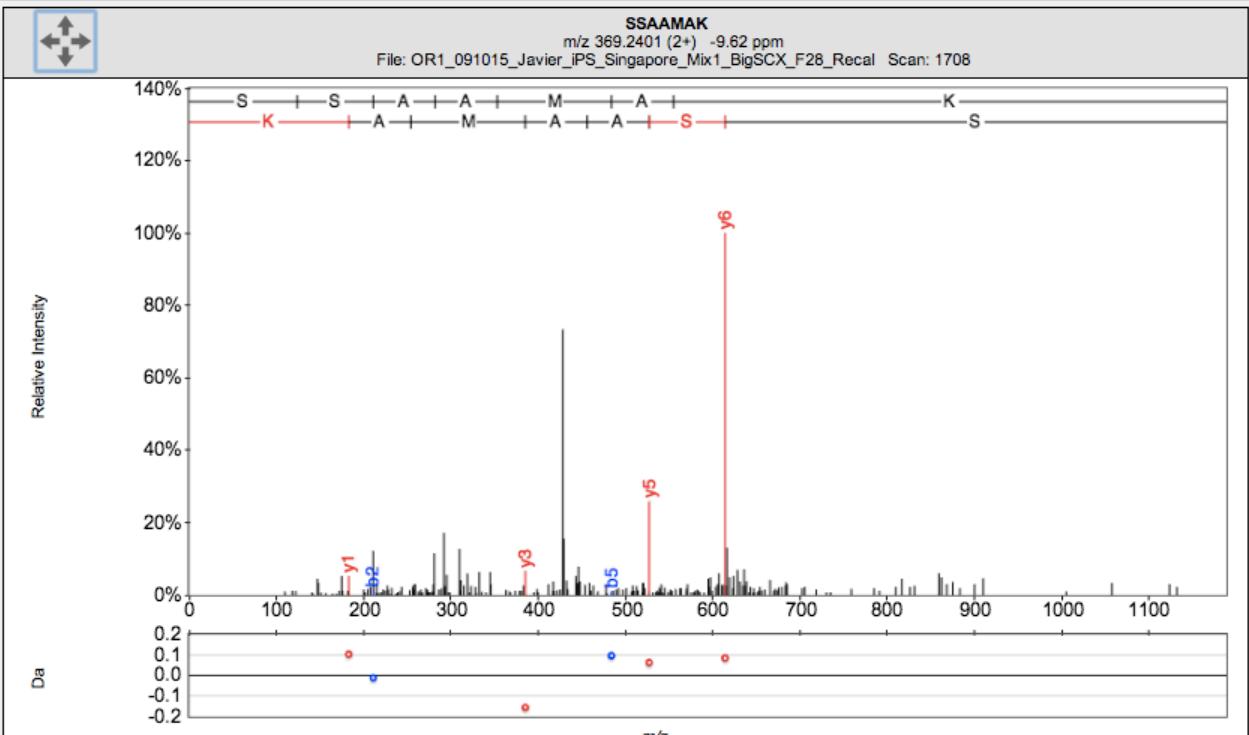
Sequence	-log q...	-log PEP	Search Engi...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ²] K.SSAAMAK.A	2.0898	-99	Mascot	26.98	4.39	2	736.4728	736.4657	-9.62	Dimethyl:2...		Munoz_M...	iPS_Singa...
MS ²] K.SSAAMAK.A	2.0898	-99	Mascot	26.98	4.39	2	736.4728	736.4657	-9.62	Dimethyl:2...		Munoz_M...	iPS_Singa...
MS ²] K.SSAAMAK.A	2.0898	-99	Mascot	26.98	4.39	2	736.4728	736.4657	-9.62	Dimethyl:2...		Munoz_M...	iPS_Singa...

> Reference spectrum

▼ Fragments

Select All Deselect All

a: 1+ 2+ 3+
 1+ 2+ 3+
 1+ 2+ 3+
 1+ 2+ 3+
 1+ 2+ 3+
 1+ 2+ 3+
 IM:
 M[H]:
Neutral loss:
 CH4O NH3 C3H6S
 C2H4S H2O CO
Max neutral loss count: 3 ▾
Mass tolerance:
0.4 Da ▾
Expert Mode: on off
> Configuration



b1+	#	Seq	#	y1+
124.115	1	S	7	
211.147	2	S	6	614.3723
282.1841	3	A	5	527.3403
353.2212	4	A	4	456.3032
484.2617	5	M	3	385.2661
555.2988	6	A	2	254.2256
	7	K	1	183.1885

Sequence	-log q...	-log PEP	Search Engi...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ² R.AVFDLSSK.T	2.3667	1.56	Andromeda	63.49	11.49	2	873.4687	865.4545	-9175.15	Label:13C...		Geiger_C...	HMLElonza
MS ² R.AVFDLSSK.T	2.3667	1.56	Andromeda	63.49	11.49	2	873.4687	865.4545	-9175.15	Label:13C...		Geiger_C...	HMLElonza
MS ² R.AVFDLSSK.T	2.0768	1.43	Andromeda	98.52	29.33	2	865.4545	865.4545	-0.01			Joshi_MS...	Label-free ...
MS ² R.AVFDLSSK.T	2.0755	1.43	Andromeda	82.45	6.42	2	865.4545	865.4545	-0.01			CPTAC_C...	Clinical_pr...
MS ² R.AVFDLSSK.T	2.4811	1.41	Andromeda	60.59	18.48	2	873.4687	865.4545	-9175.15	Label:13C...		Geiger_C...	HCC1937

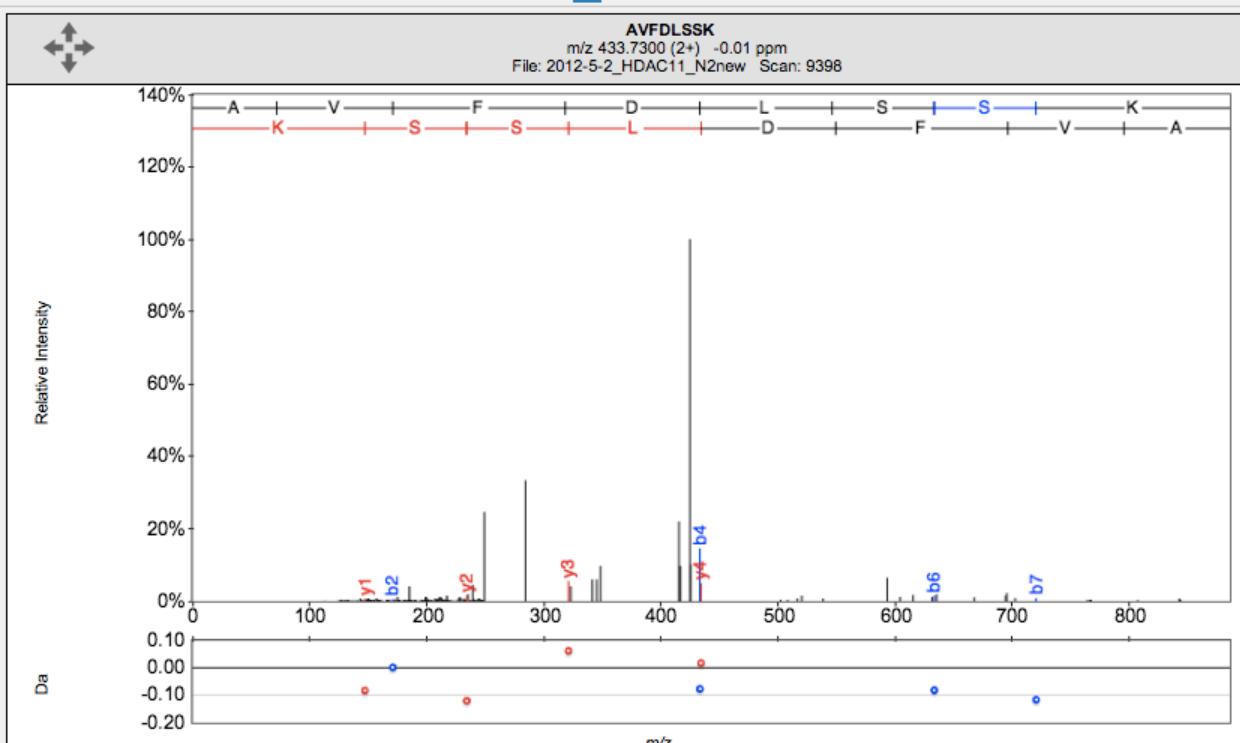
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> Reference spectrum

▼ Fragments

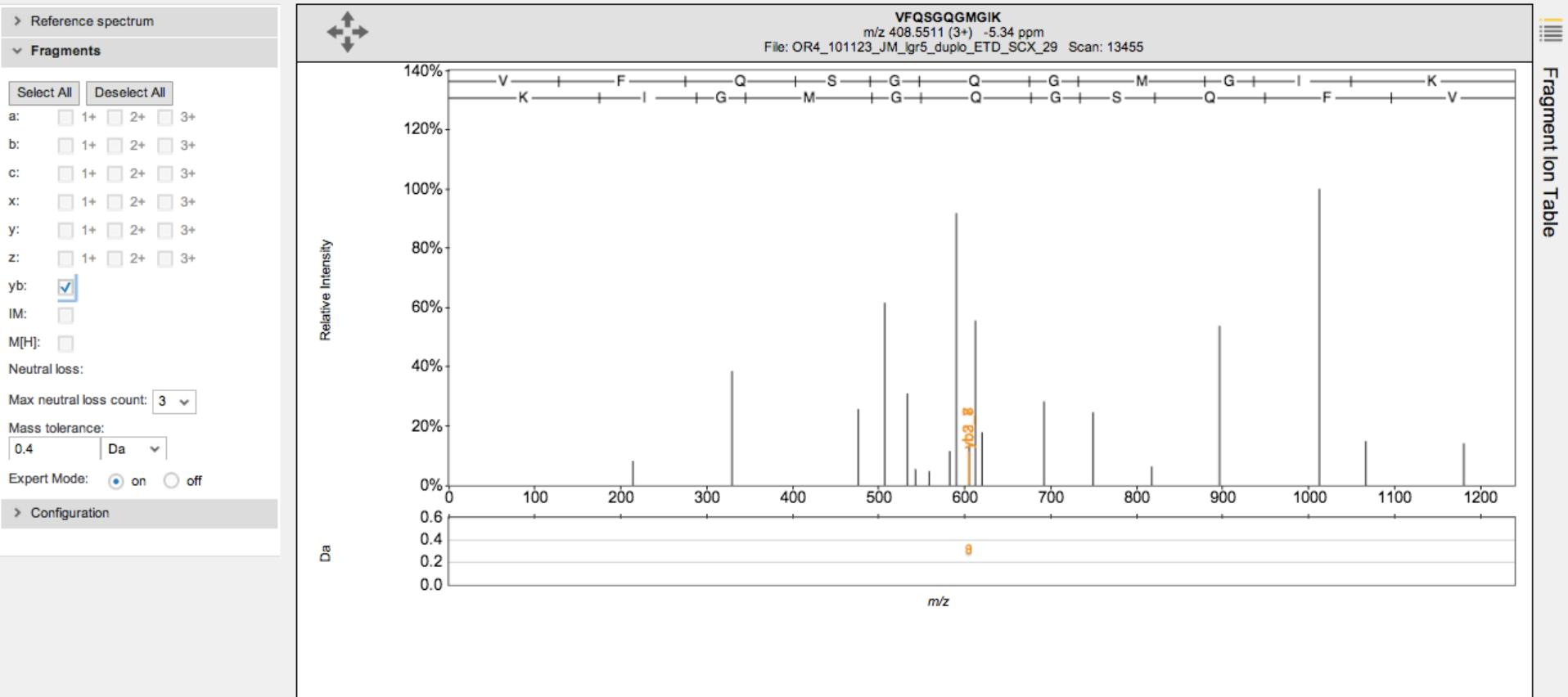
Select All Deselect All

a: 1+ 2+ 3+
b: 1+ 2+ 3+
c: 1+ 2+ 3+
x: 1+ 2+ 3+
y: 1+ 2+ 3+
z: 1+ 2+ 3+
yb:
IM:
M[H]:
Neutral loss:
 H2O NH3 C2O
 C4H9N CH4O C3H9N
 CO C4H8 C2H5N
 C5H11N C4H11N C3H6
 C2H4O2
Max neutral loss count: 3 ▾
Mass tolerance:
0.4 Da ▾
Expert Mode: on off
> Configuration

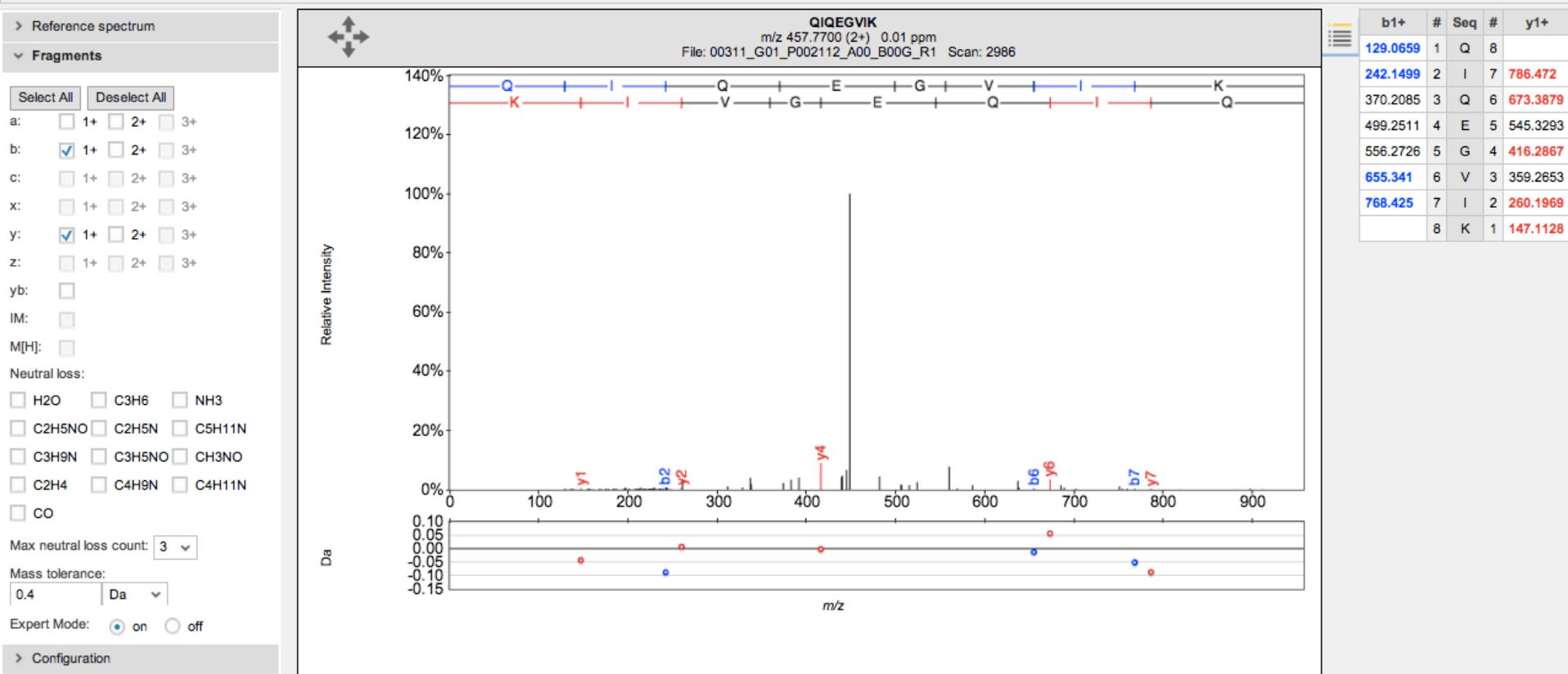


b1+	#	Seq	#	y1+
72.0444	1	A	8	
171.1128	2	V	7	795.4247
318.1812	3	F	6	696.3563
433.2082	4	D	5	549.2879
546.2922	5	L	4	434.2609
633.3243	6	S	3	321.1769
720.3563	7	S	2	234.1448
	8	K	1	147.1128

Sequence	-log q...	-log PEP	Search Engl...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ²] R.VFQSGQQGMGIK.A	2.07	0.21	Mascot	29.98	10.36	3	1222.6380	1222.6315	-5.34	Dimethyl...	Oxidation...	Munoz_E...	Comparis...
MS ²] R.VFQSGQQGMGIK.A	2.07	0.21	Mascot	29.98	10.36	3	1222.6380	1222.6315	-5.34	Dimethyl...	Oxidation...	Munoz_E...	Compariso...



Sequence	-log q...	-log PEP	Search Engi...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ² K.QIQEGVIK.F	2.346	1.88	Andromeda	93.43	2.36	2	913.5233	913.5233	0.01			Maier_MC...	tissue_pro...
MS ² K.QIQEGVIK.F	5	1	Mascot	38.48	1.72	2	913.5233	914.5187	1089.7			Nagaraj_...	Deep prot...
MS ² K.QIQEGVIK.F	3.0218	0.39	Mascot	49.95	2.07	2	913.5233	914.5184	1089.31			Human_b...	Proteome ...
MS ² K.QIQEGVIK.F	3.0687	0.31	Mascot	51.09	2.27	2	913.5233	914.5179	1088.74			Human_b...	Proteome ...
MS ² K.QIQEGVIK.F	2.0583	0.15	Mascot	24.22	7.65	2	913.5233	913.5237	0.51			Human_b...	Proteome ...



Sequence	-log q...	-log PEP	Search Engi...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ²] K.EFKNALK.K	2.6669	1.16	Andromeda	97.07	10.2	2	848.4756	848.4756	0			Cutler_Pe...	Roche_hu...
MS ²] K.EFKNALK.K	2.6711	0.93	Andromeda	94.26	24.26	2	848.4756	848.4756	0			Cutler_Pe...	Roche_hu...
MS ²] K.EFKNALK.K	2.2728	0.6	Andromeda	76.85	6.85	2	848.4756	848.4756	0			IEC_prote...	colon
MS ²] K.EFKNALK.K	2.0411	0.66	Andromeda	76.85	5.5	2	848.4756	848.4756	0			Moghadda...	full proteo...
MS ²] K.EFKNALK.K	2.3445	0.58	Andromeda	76.04	6.65	2	848.4756	848.4756	0			Cutler_Pe...	Roche_hu...

< 1 2 3 >

► Reference spectrum

▼ Fragments

Select All Deselect All

a: 1+ 2+ 3+

b: 1+ 2+ 3+

c: 1+ 2+ 3+

x: 1+ 2+ 3+

y: 1+ 2+ 3+

z: 1+ 2+ 3+

yb:

IM:

M[H]:

Neutral loss:

C5H11N NH3 C4H8

H2O C2H5N C4H9N

C3H6 C4H11N C3H9N

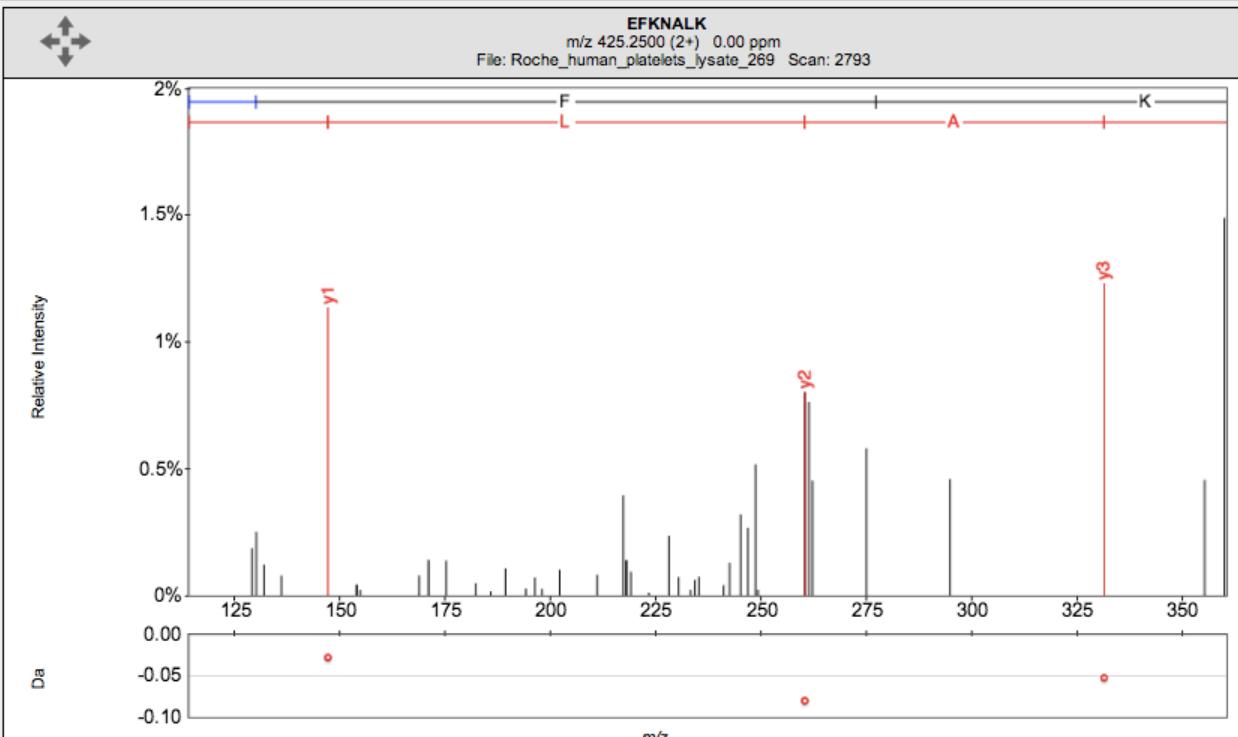
C2H4O2

Max neutral loss count: 3

Mass tolerance: 0.4 Da

Expert Mode: on off

► Configuration



b1+	#	Seq	#	y1+
130.0499	1	E	7	
277.1183	2	F	6	720.4403
405.2132	3	K	5	573.3719
519.2562	4	N	4	445.2769
590.2933	5	A	3	331.234
703.3774	6	L	2	260.1969
	7	K	1	147.1128

Sequence	-log q...	-log PEP	Search Engl...	Score	Delta Score	z	Theoretic...	Measured...	Mass Err...	Fixed Mo...	Variable ...	Project	Experiment
MS ² R.NTDVQGALCQLLVGKR.S	2.2539	0.53	Andromeda	81.45	4.86	3	1827.0037	1770.9411	-30685.54	Carbamid...		Munoz_M...	4Skin_Mix...
MS ² R.NTDVQGALCQLLVGKR.S	2.2539	0.53	Andromeda	81.45	4.86	3	1827.0037	1770.9411	-30685.54	Carbamid...		Munoz_M...	4Skin_Mix...
MS ² R.NTDVQGALCQLLVGKR.S	2.2539	0.53	Andromeda	81.45	4.86	3	1827.0037	1770.9411	-30685.54	Carbamid...		Munoz_M...	4Skin_Mix...
Click for peptide details													

