GRTALITGSAKR

	#	b	b*	#	y	y*	P	P*
G	1							✓
R	2			11		✓		
T	3			10				
A	4			9				
L	5			8		✓		
I	6	✓		7	✓			
T	7			6	✓	✓		
G	8	✓		5	✓			
S	9			4	✓			
A	10			3				
K	11			2				
R	12	✓	✓	1				

G R T A L I T G S A K R

dbConflictWinner true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.88324 100. ? 1236.
S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS::::::::::%sample_2%cmpd_18
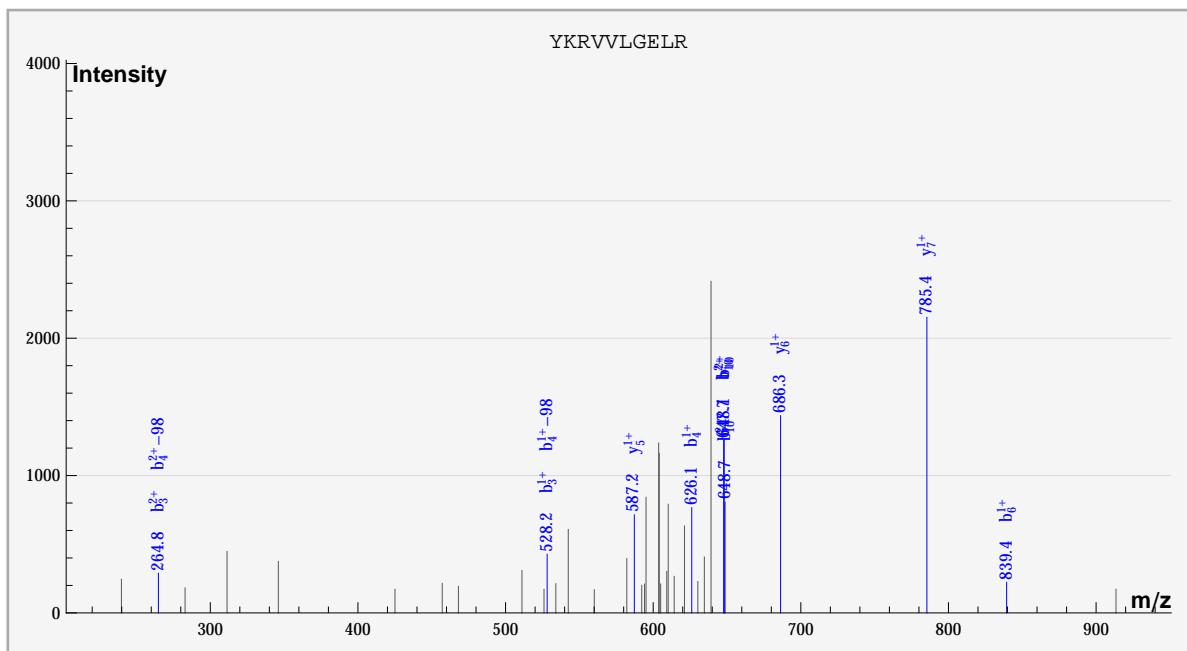
	#	b	b*	#	y	y*	P	P*
Y	1							
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5			6	✓			
L	6	✓		5	✓			
G	7			4				
E	8			3				
L	9			2				
R	10	✓		1				

Y K R V V L G E L R

dbValid true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.02099 100. ? 1248.
S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS:::::::::%sample_2%cmpd_28

	♯	b	b*	♯	y	y*	P	P*
Y	1							
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5			6	✓			
L	6	✓		5	✓			
G	7			4				
E	8			3				
L	9	✓		2				
R	10	✓	✓	1				

dbValid true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.26274 100. ? 1260.
    S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS::::::::::%sample_2%cmpd_38

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
Y	1							
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5		✓	6	✓			
L	6	✓		5	✓			
G	7			4				
E	8			3				
L	9		✓	2				
R	10	✓	✓	1				
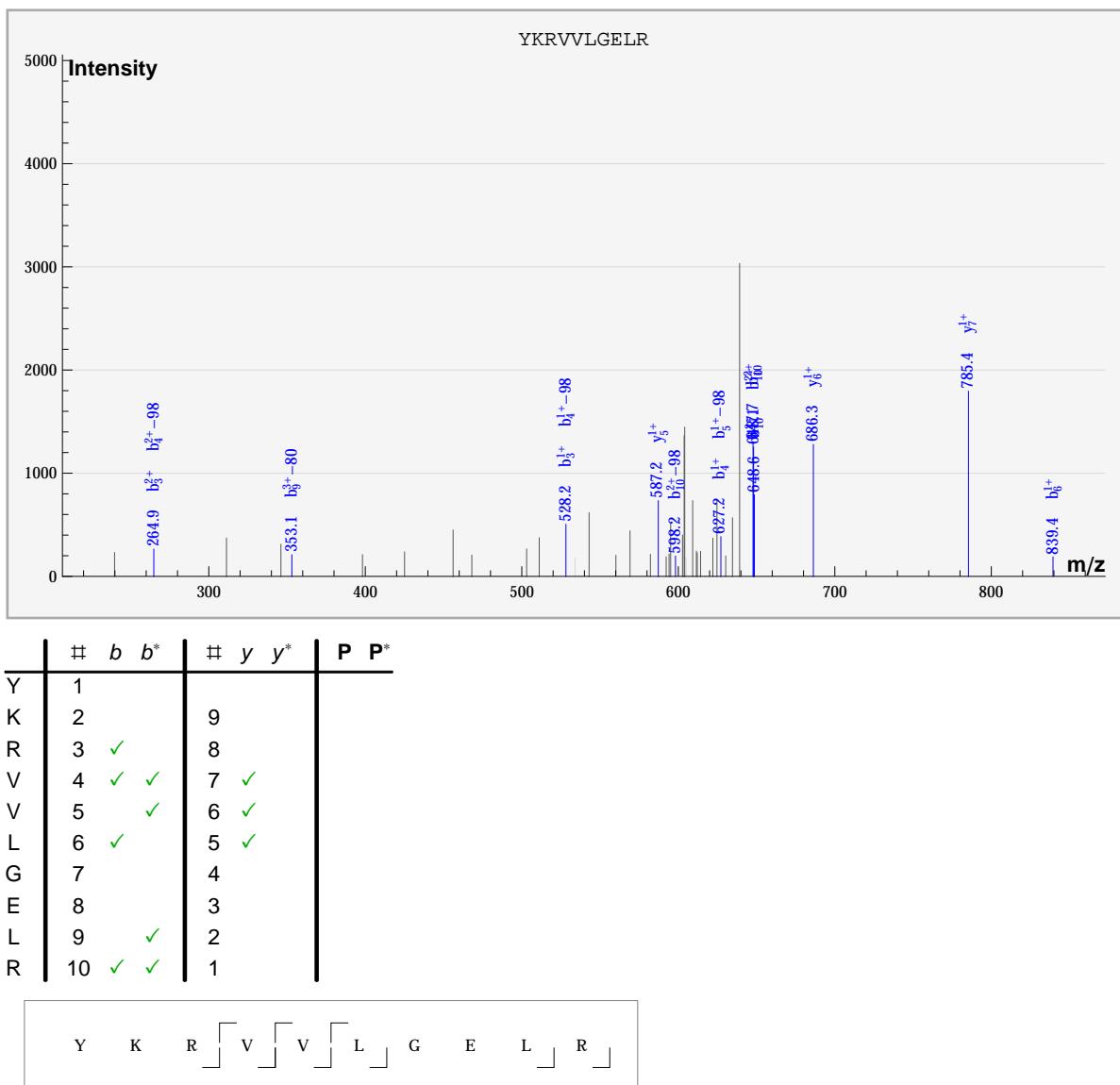
dbConflictWinner true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.86145 100. ? 1272.
   S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS:::::::::::%sample_2%cmpd_48

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
Y	1							
K	2			9				
R	3	✓	✓	8				
V	4	✓	✓	7	✓			
V	5		✓	6	✓			
L	6		✓	5	✓			
G	7			4				
E	8			3				
L	9	✓	✓	2				
R	10	✓		1				

dbConflictWinner true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.7613 100. ? 1320.
   S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS:::::::::%sample_2%cmpd_86
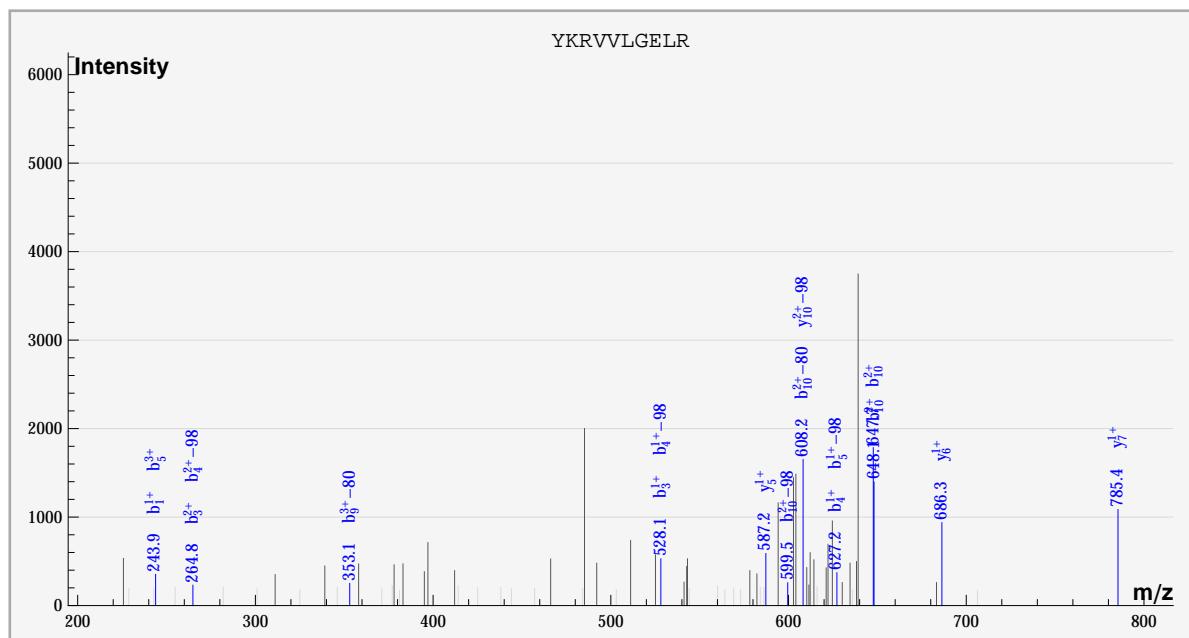

#	b	b*	#	y	y*	P	P*
Y	1	✓					✓
K	2		9				
R	3	✓	8				
V	4	✓ ✓	7	✓			
V	5	✓ ✓	6	✓			
L	6		5	✓			
G	7		4				
E	8		3				
L	9	✓	2				
R	10	✓ ✓	1				
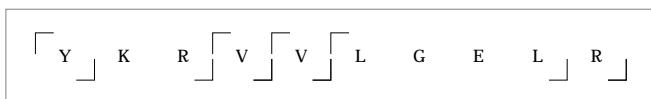
dbConflictWinner true YKRVVLGELR PHOS(1) 2. 658. −1.13953 6.44053 100. ? 1338.
S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS::::::::::%sample_2%cmpd_96
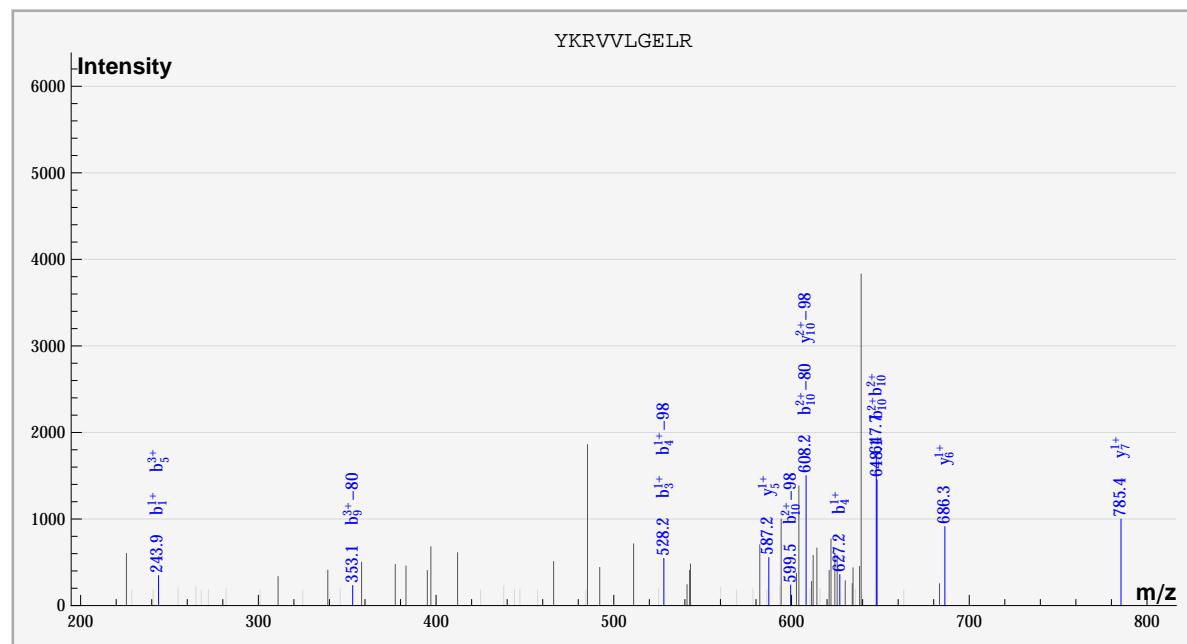
|	#	b	b*	#	y	y*	P	P*
Y	1	✓						✓
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5	✓		6	✓			
L	6			5	✓			
G	7			4				
E	8			3				
L	9		✓	2				
R	10	✓	✓	1				
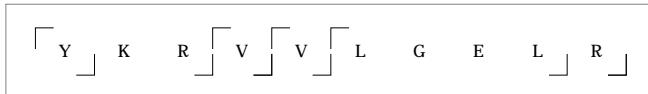
dbValid true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.97831 100. ? 1350.
S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS::::::::::%sample_2%cmpd_105
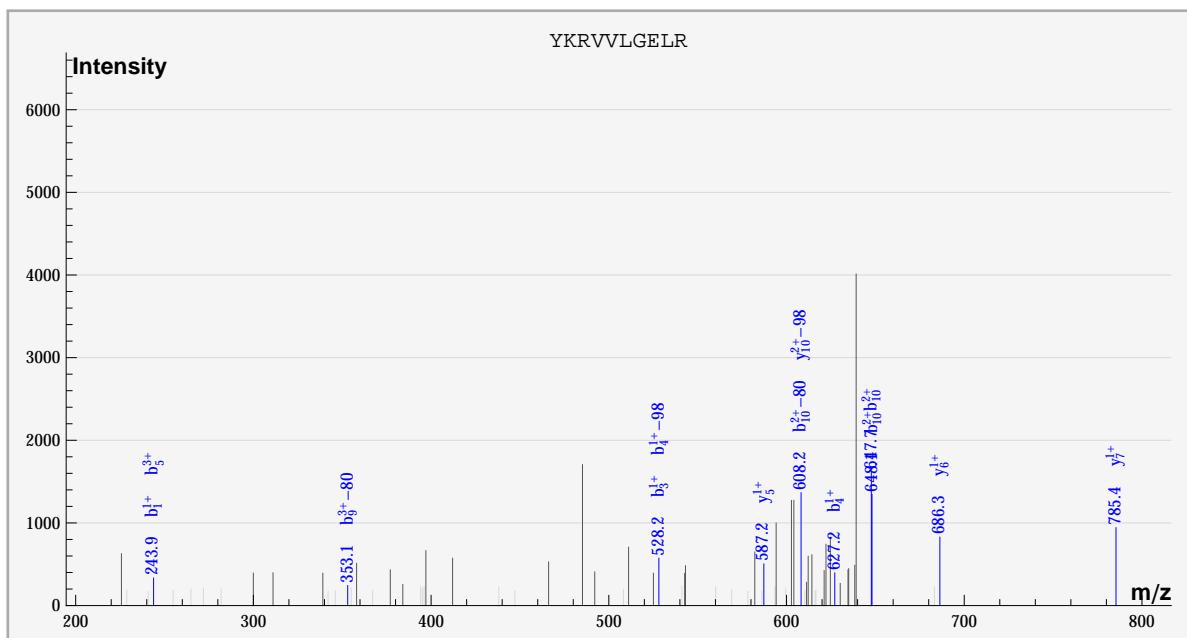
|	#	b	b*	#	y	y*	P	P*
Y	1	✓						✓
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5	✓		6	✓			
L	6			5	✓			
G	7			4				
E	8			3				
L	9		✓	2				
R	10	✓	✓	1				
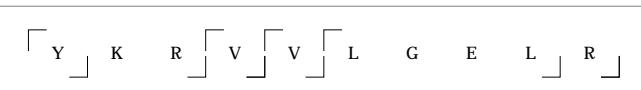
dbValid true YKRVVLGELR PHOS(1) 2. 658. −1.13953 5.56559 100. ? 1356.
  S_Acido_new%gi|68568308|gb|AAY81237.1| YKRVVLGELR%:PHOS:::::::::%sample_2%cmpd_115
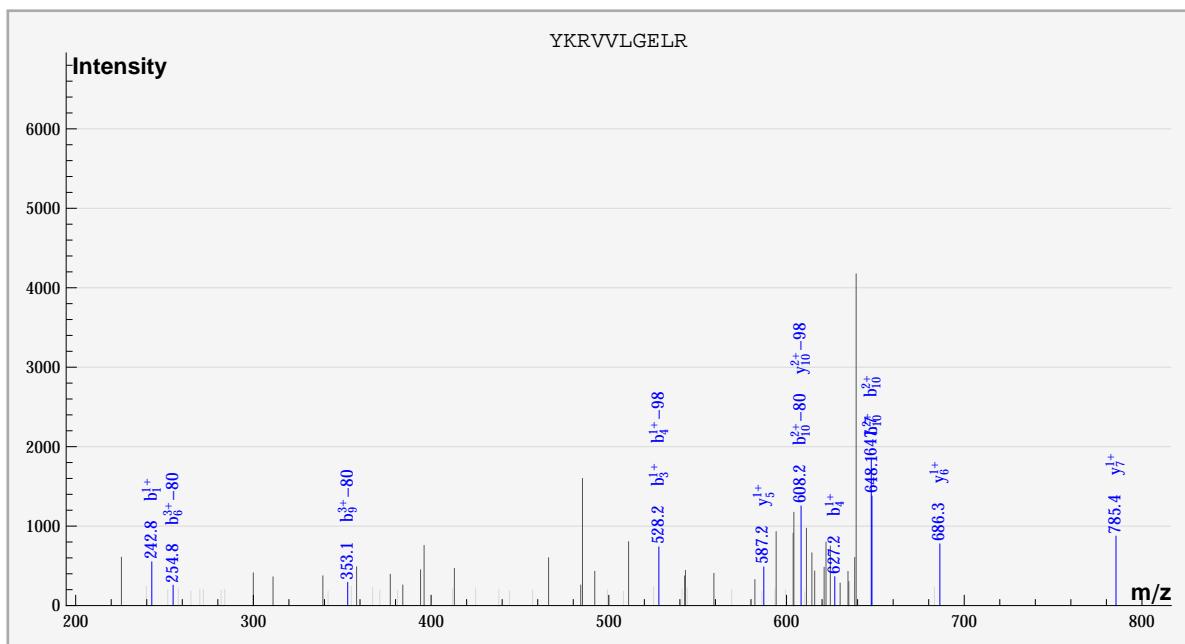
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1	✓						✓
K	2			9				
R	3	✓		8				
V	4	✓	✓	7	✓			
V	5			6	✓			
L	6		✓	5	✓			
G	7			4				
E	8			3				
L	9		✓	2				
R	10	✓	✓	1				

dbValid true KIIISGPPGSGK PHOS(2) 2. 658. −0.683103 5.08361 100. ? 1404.
S_Acido_new%gi|68567033|gb|AAY79962.1| KIIISGPPGSGK%:::::PHOS:::::PHOS:::%sample_2%cmpd_156

|	♯	b	b*	♯	y	y*	P	P*
K	1							✓
I	2	✓		11	✓			
I	3	✓		10				
I	4			9				
S	5	✓	✓	8		✓		
G	6		✓	7	✓	✓		
P	7		✓	6	✓	✓		
P	8		✓	5	✓	✓		
G	9			4				
S	10		✓	3	✓			
G	11			2				
K	12	✓	✓	1				

dbValid true KIIISGPPGSGK PHOS(2) 2. 658. −0.683103 5.09012 100. ? 1416.
S_Acido_new%gi|68567033|gb|AAY79962.1| KIIISGPPGSGK%:::::PHOS:::::PHOS:::%sample_2%cmpd_167

	♯	b	b*	♯	y	y*	P	P*
K	1							✓
I	2	✓		11	✓			
I	3	✓		10				
I	4			9				
S	5		✓	8		✓		
G	6		✓	7	✓	✓		
P	7		✓	6	✓	✓		
P	8		✓	5	✓	✓		
G	9			4				
S	10		✓	3	✓			
G	11			2				
K	12	✓	✓	1				

dbValid true EYKIPVLVDR PHOS(1) 2. 658. −1.66097 4.96988 100. ? 1854.
S_Acido_new%gi|68567026|gb|AAY79955.1| EYKIPVLVDR%::PHOS::::::::::%sample_3%cmpd_565
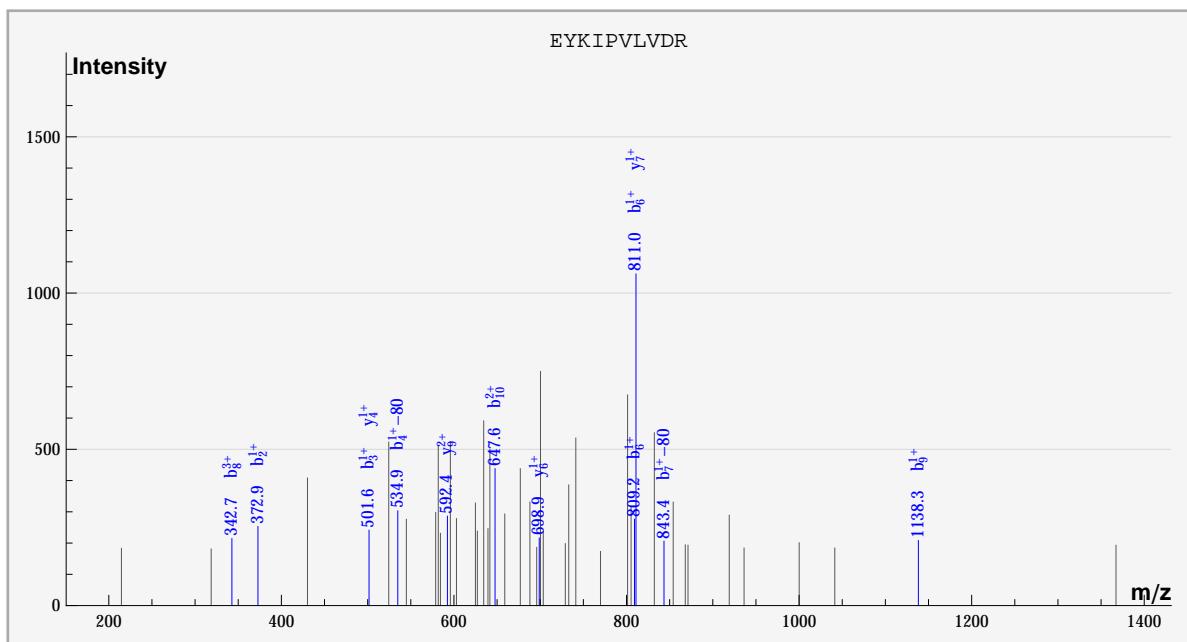
	♯	b	b*	♯	y	y*	P	P*
E	1							
Y	2	✓		9	✓			
K	3	✓		8				
I	4		✓	7	✓			
P	5			6	✓			
V	6	✓		5				
L	7		✓	4	✓			
V	8	✓		3				
D	9	✓		2				
R	10	✓		1				

dbValid true IDLSLGENYK PHOS(2) 2. 658. −1.73292 5.07653 100. ? 2220.
  S_Acido_new%gi|68567105|gb|AAY80034.1| IDLSLGENYK%::::PHOS:::::PHOS::%sample_3%cmpd_897

	♯	b	b*	♯	y	y*	P	P*
I	1							
D	2			9		✓		
L	3			8	✓			
S	4			7	✓	✓		
L	5			6	✓	✓		
G	6		✓	5	✓	✓		
E	7	✓	✓	4	✓			
N	8		✓	3	✓			
Y	9		✓	2				
K	10		✓	1				
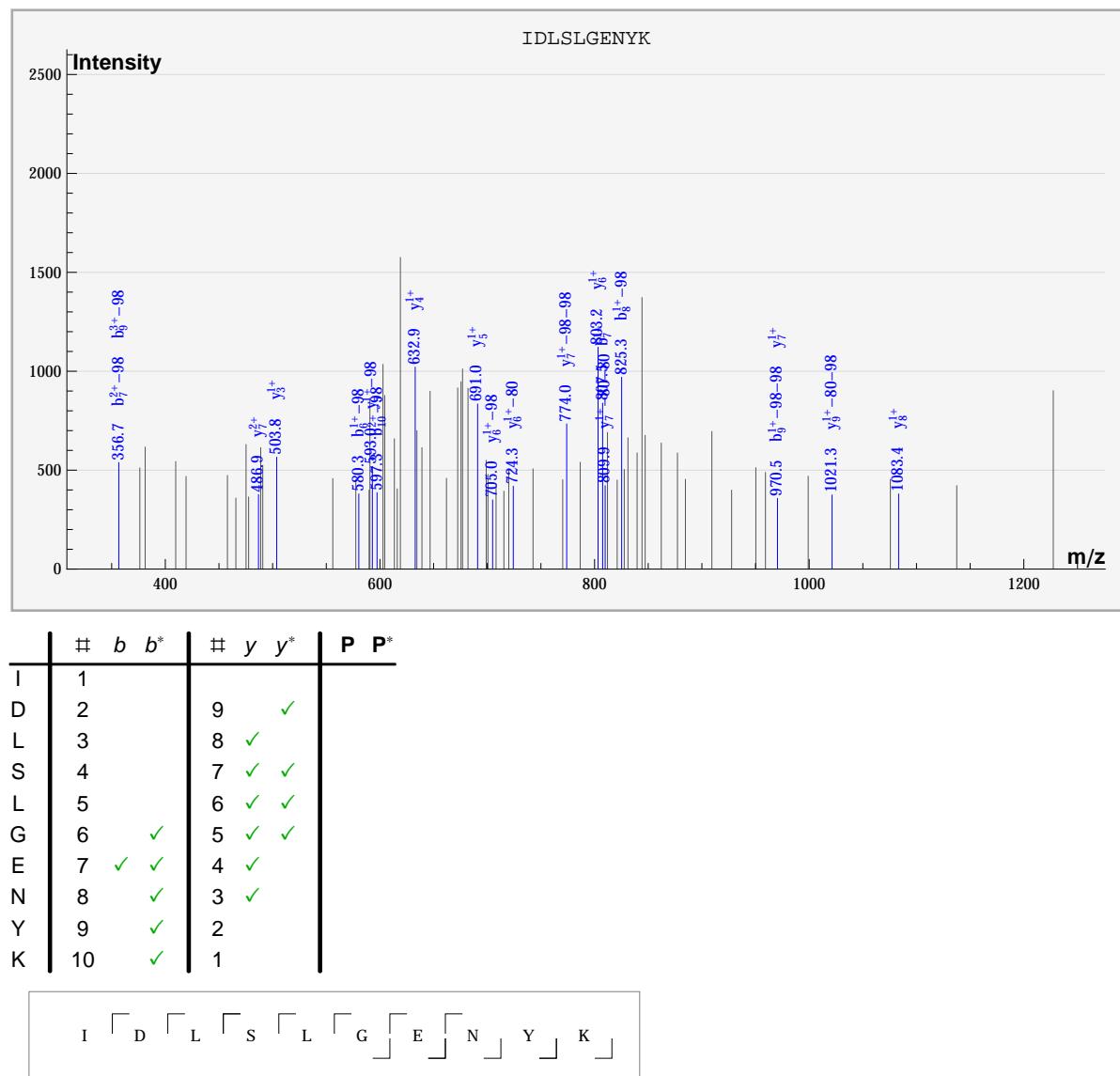
dbValid true QQYLSKVSRK PHOS(1) 2. 658. 0.839742 5.45136 100. ? 3516.
S_Acido_new%gi|68566620|gb|AAY79549.1| QQYLSKVSRK%:::PHOS::::::::%sample_3%cmpd_2082
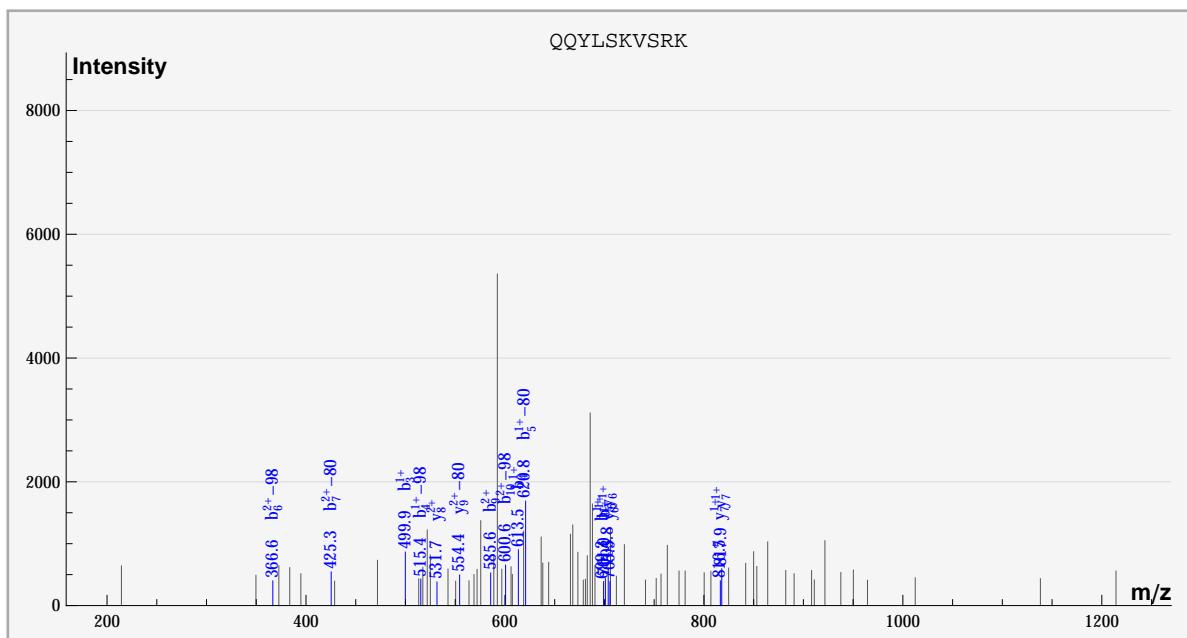
	♯	b	b*	♯	y	y*	P	P*
Q	1							
Q	2			9		✓		
Y	3	✓		8	✓			
L	4	✓	✓	7	✓			
S	5	✓	✓	6	✓			
K	6		✓	5				
V	7		✓	4				
S	8			3				
R	9	✓		2				
K	10		✓	1				

dbValid true KAVILAGGYGKR PHOS(1) 2. 658. −1.13954 5.58571 100. ? 3600.
S_Acido_new%gi|68567675|gb|AAY80604.1| KAVILAGGYGKR%::::::::::PHOS::::%sample_3%cmpd_2159
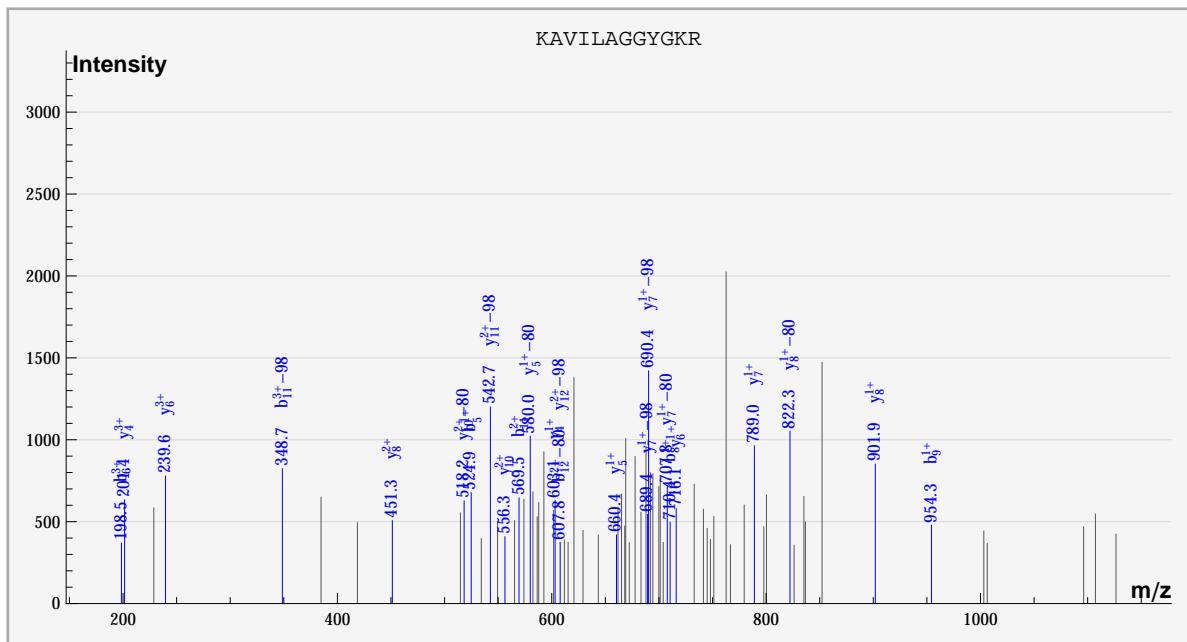
	♯	b	b*		♯	y	y*		P	P*
K	1									✓
A	2				11		✓			
V	3				10	✓	✓			
I	4				9					
L	5	✓			8	✓	✓			
A	6	✓			7	✓	✓			
G	7				6	✓				
G	8	✓			5	✓	✓			
Y	9	✓			4	✓				
G	10				3					
K	11	✓	✓		2					
R	12		✓		1					

K A V I L A G G Y G K R

dbValid true EMEIPAPYKR PHOS(1) 2. 658. −0.698403 5.37525 100. ? 3840.
S_Acido_new%gi|68568506|gb|AAY81435.1| EMEIPAPYKR%::::::::PHOS:::%sample_3%cmpd_2381
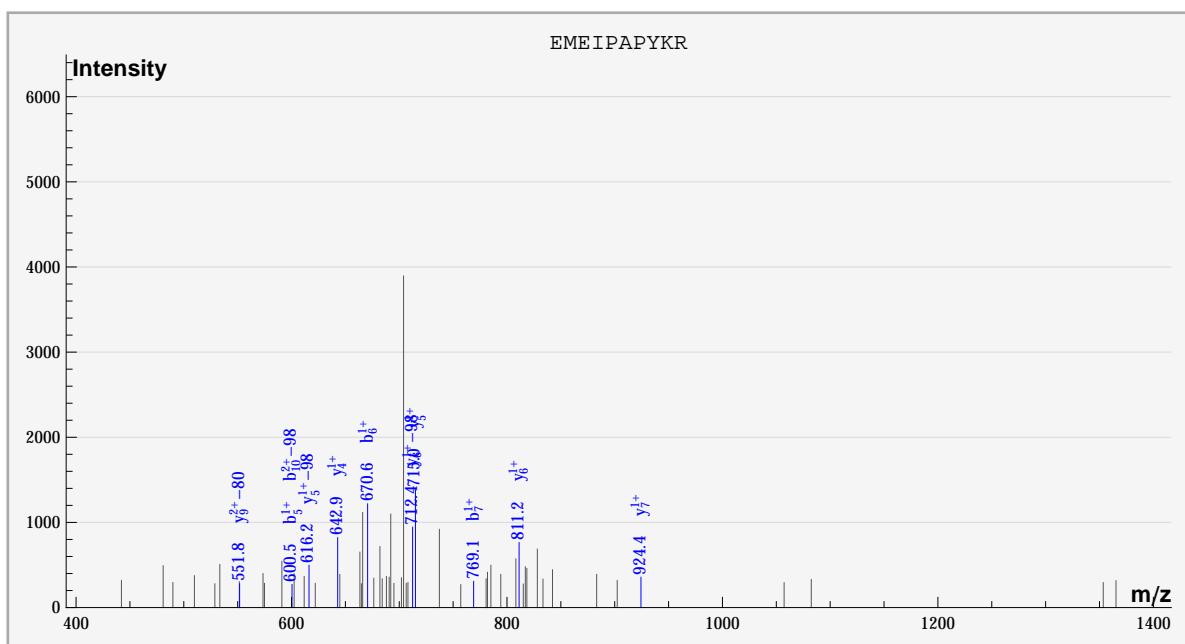
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
E	1							
M	2			9		✓		
E	3			8				
I	4			7	✓			
P	5	✓		6	✓	✓		
A	6	✓		5	✓	✓		
P	7	✓		4	✓			
Y	8			3				
K	9			2				
R	10		✓	1				

E ⌐ M E ⌐ I ⌐ P ⌐ A ⌐ P ⌐ Y K R

dbValid true FRAPSTTTEVK PHOS(1) 2. 659. −0.184073 5.14573 100. ? 4290.
 S_Acido_new%gi|68568615|gb|AAY81544.1| FRAPSTTTEVK%:::::PHOS::::::::%sample_3%cmpd_2793

	#	b	b*	#	y	y*	P	P*
F	1							✓
R	2			10				
A	3	✓		9				
P	4			8		✓		
S	5	✓		7				
T	6	✓		6		✓		
T	7	✓		5				
T	8	✓		4		✓		
E	9		✓	3		✓		
V	10			2				
K	11		✓	1				

F R A P S T T T E V K
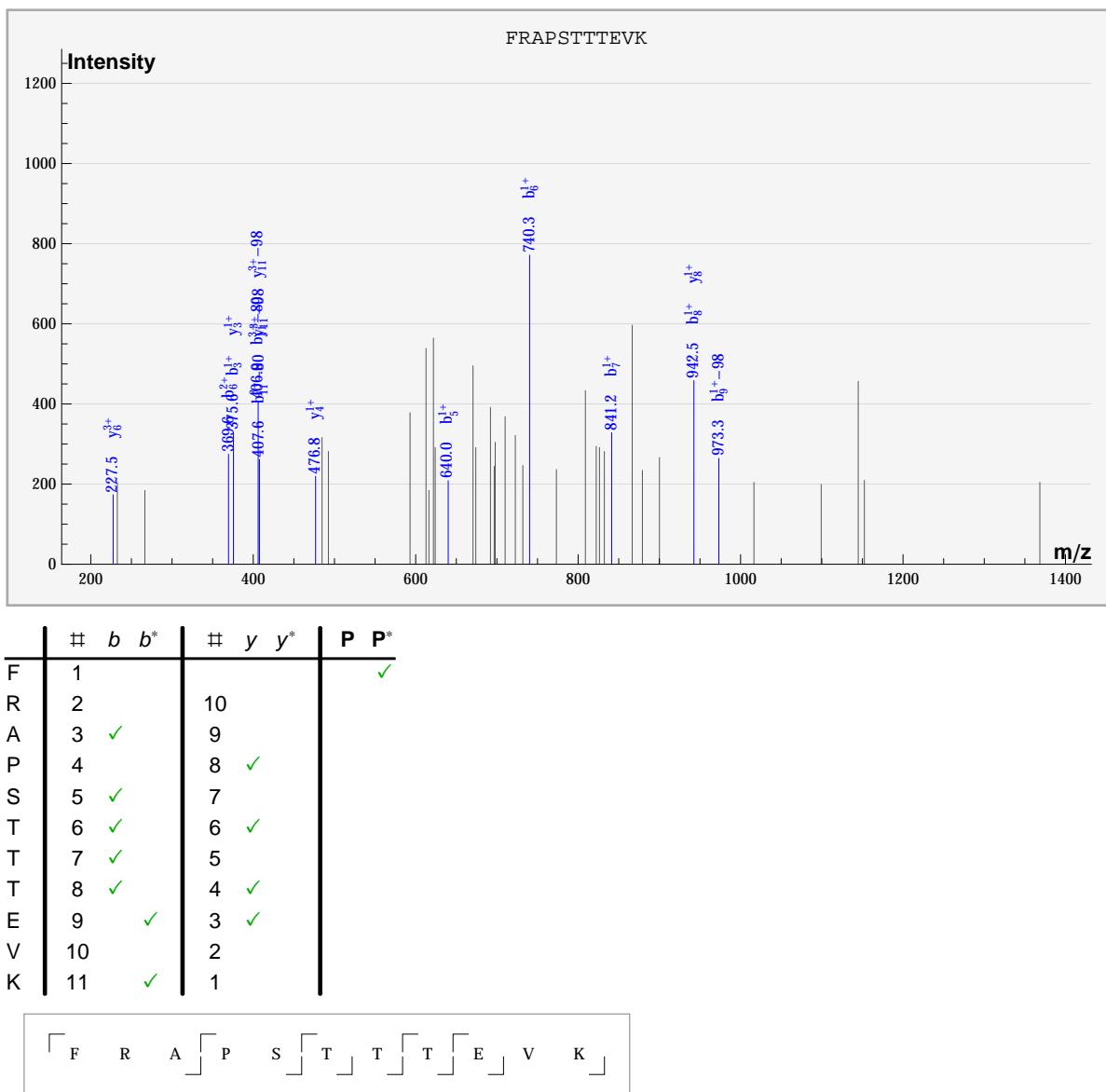
dbValid true ADVSVS PHOS(1) 1. 659. −1.75092 5.98468 100. ? 444.
    S_Acido_new%gi|68567062|gb|AAY79991.1| ADVSVS%::::::PHOS:%sample_3%cmpd_2859

	♯	b	b*	♯	y	y*	P	P*
A	1							✓
D	2			5	✓			
V	3	✓		4		✓		
S	4	✓		3	✓			
V	5			2	✓			
S	6	✓	✓	1				
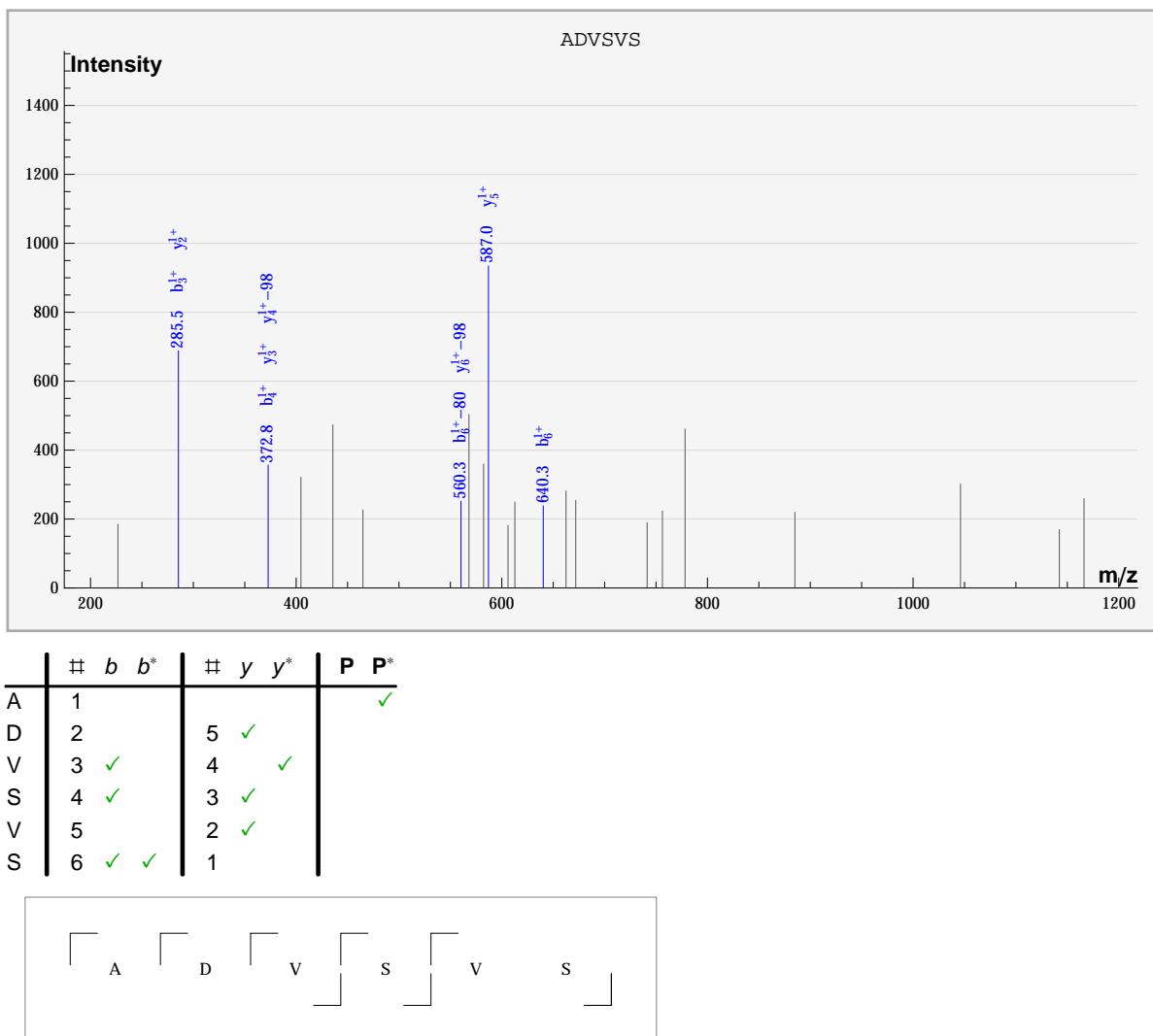
dbValid true MEITEDSKRK PHOS(1) 2. 660. −1.20058 5.64538 100. ? 2700.
S_Acido_new%gi|68566940|gb|AAY79869.1| MEITEDSKRK%::::PHOS:::::::%sample_0%cmpd_1333

MEITEDSKRK
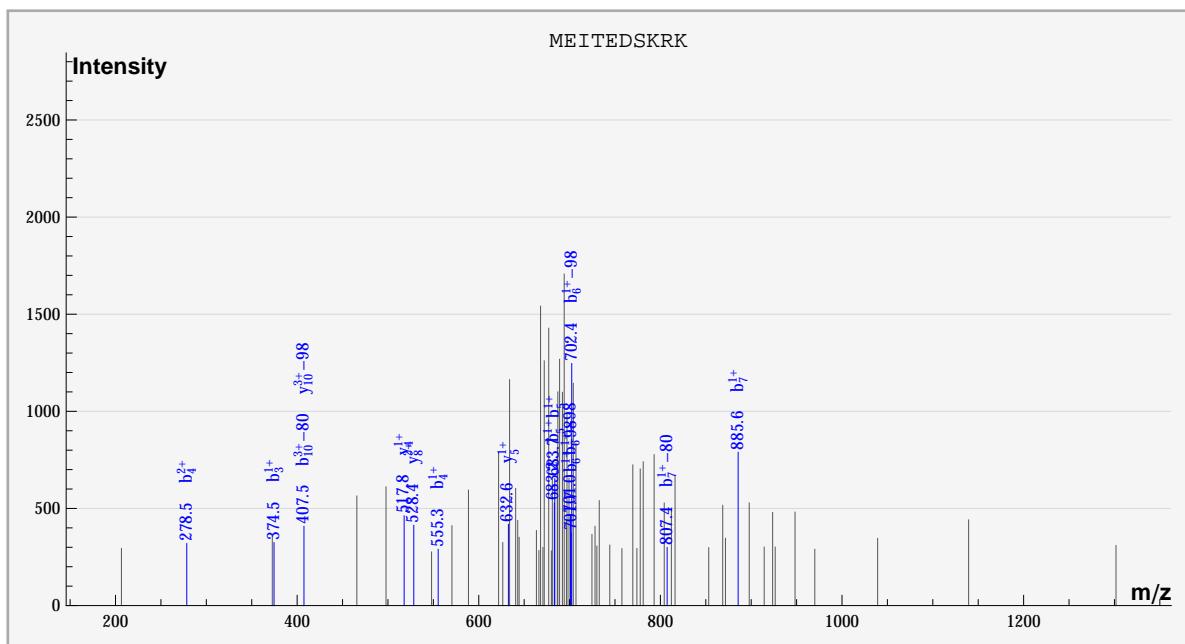
	♯	b	b^*	♯	y	y^*	**P**	**P***
M	1							✓
E	2			9				
I	3	✓		8	✓			
T	4	✓		7				
E	5	✓		6				
D	6		✓	5	✓			
S	7	✓	✓	4	✓			
K	8			3				
R	9			2				
K	10		✓	1				

M E I T E D S K R K

dbValid true KILYKHVTR PHOS(2) 2. 661. −1.67239 5.08806 100. ? 1650.
S_Acido_new%gi|68568139|gb|AAY81068.1| KILYKHVTR%::::PHOS::::PHOS::%sample_0%cmpd_373
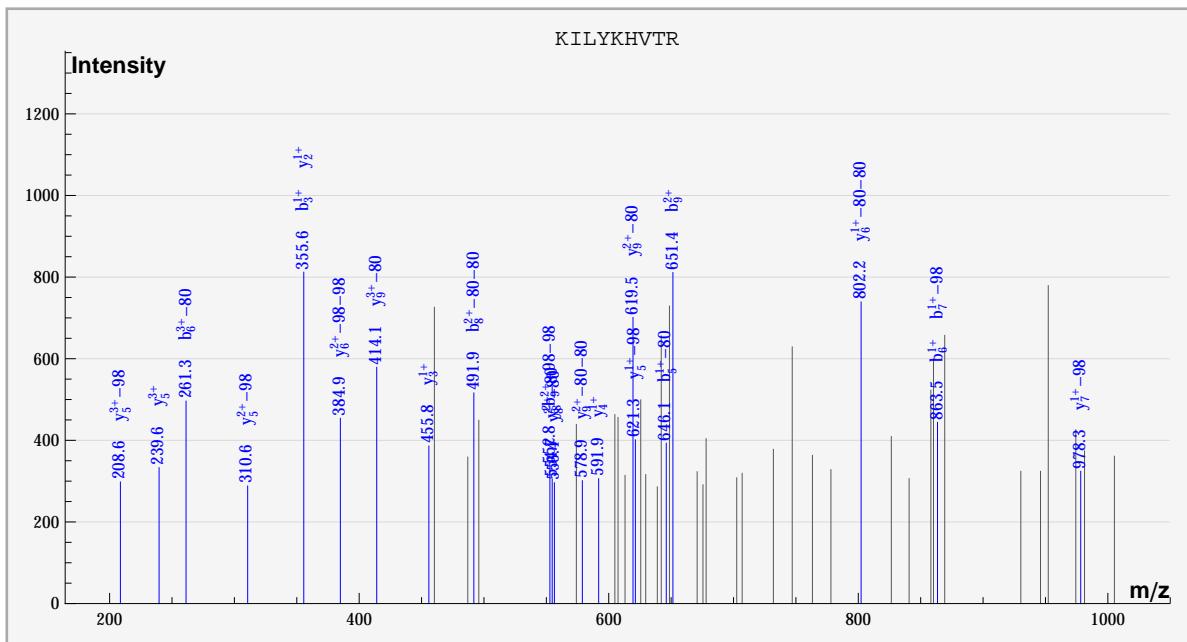
	♯	b	b*	♯	y	y*	P	P*
K	1							✓
I	2			8		✓		
L	3	✓		7		✓		
Y	4			6		✓		
K	5		✓	5	✓	✓		
H	6	✓	✓	4	✓			
V	7		✓	3	✓			
T	8		✓	2	✓			
R	9	✓	✓	1				

K I L Y K H V T R
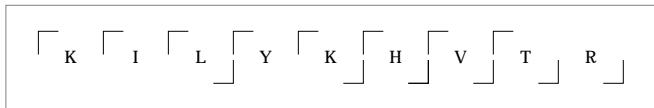
dbValid   true   ERYMVIMKR   Oxidation_M(1),PHOS(1)   2.   661.   0.311442   5.44126   100.   ?   354.
S_Acido_new%gi|68568392|gb|AAY81321.1| ERYMVIMKR%:::PHOS:Oxidation_M:::::::%sample_0%cmpd_1994
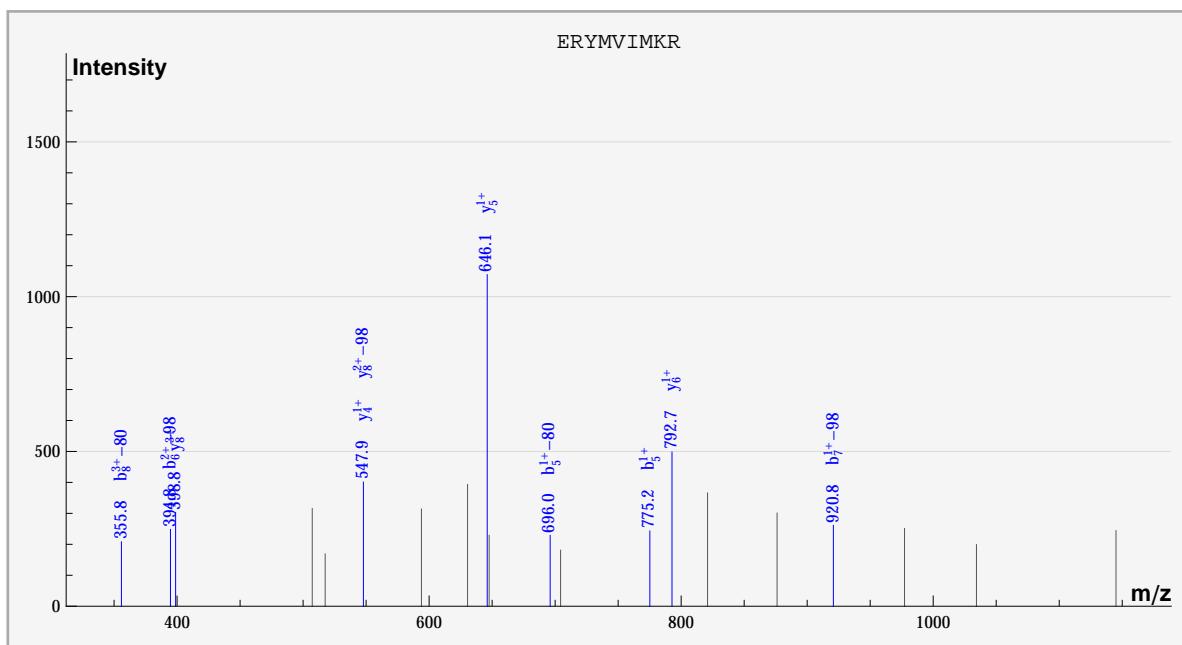
	#	b	b*		#	y	y*		P	P*
E	1									
R	2				8	✓	✓			
Y	3				7					
M	4				6	✓				
V	5	✓	✓		5	✓				
I	6		✓		4	✓				
M	7		✓		3					
K	8		✓		2					
R	9				1					

dbValid true RSSQLKLSLK PHOS(2) 2. 661. −0.672193 5.11513 100. ? 3972.
S_Acido_new%gi|68567464|gb|AAY80393.1| RSSQLKLSLK%:::PHOS:::::PHOS:::%sample_0%cmpd_2495
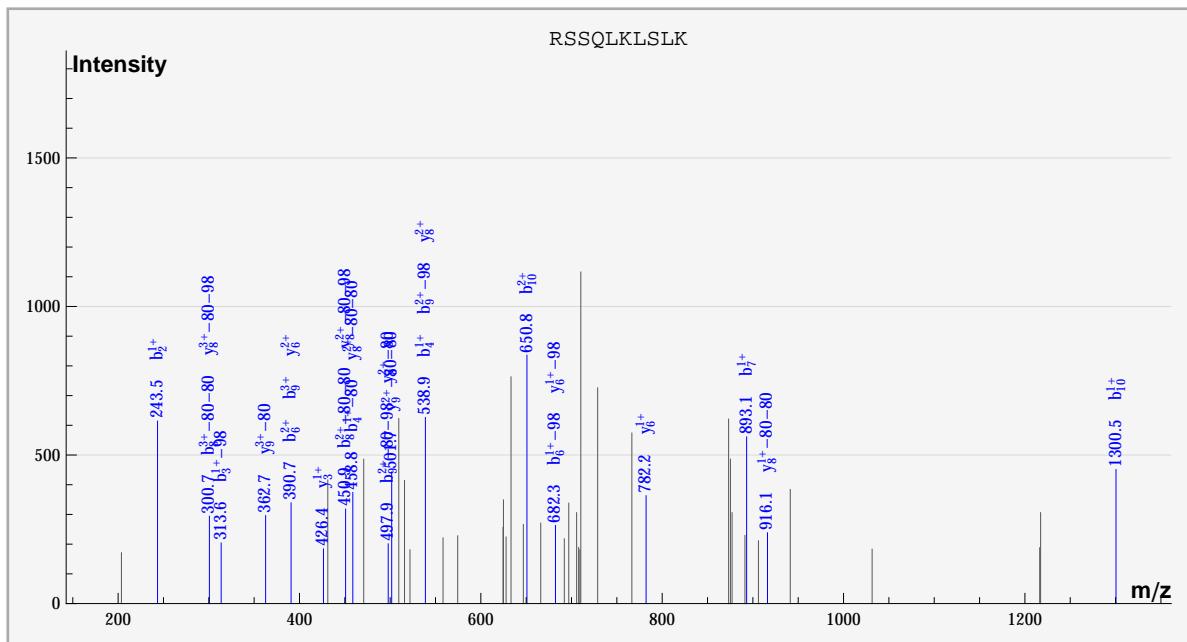
	♯	b	b*	♯	y	y*	P	P*
R	1							
S	2	✓		9		✓		
S	3		✓	8	✓	✓		
Q	4	✓	✓	7				
L	5			6	✓	✓		
K	6	✓	✓	5				
L	7	✓		4				
S	8		✓	3	✓			
L	9	✓	✓	2				
K	10	✓		1				
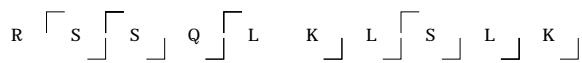
dbValid   true   YMEWFHRR   Oxidation_M(1),PHOS(1)   2.   661.   −0.229203   6.59913   100.   ?   4530.
   S_Acido_new%gi|68568536|gb|AAY81465.1| YMEWFHRR%:PHOS:Oxidation_M:::::::%sample_0%cmpd_3005
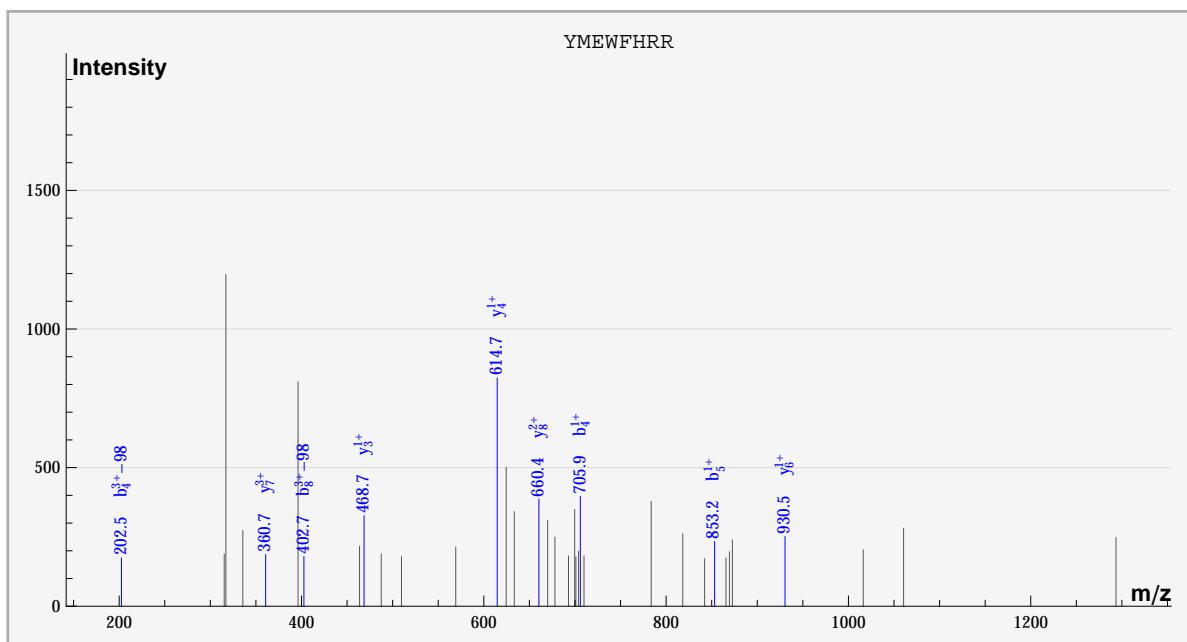
	♯	b	b*	♯	y	y*	P	P*
Y	1						✓	
M	2			7	✓			
E	3			6	✓			
W	4	✓	✓	5				
F	5	✓		4	✓			
H	6			3	✓			
R	7			2				
R	8		✓	1				
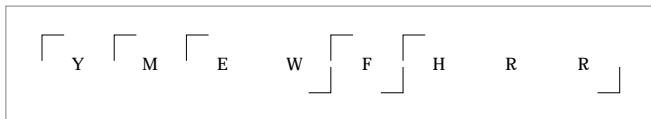
dbValid true YRDYYMKQ PHOS(2) 2. 662. 1.7349 5.04656 100. ? 1614.
S_Acido_new%gi|68567549|gb|AAY80478.1| YRDYYMKQ%:PHOS::::PHOS::::%sample_0%cmpd_341
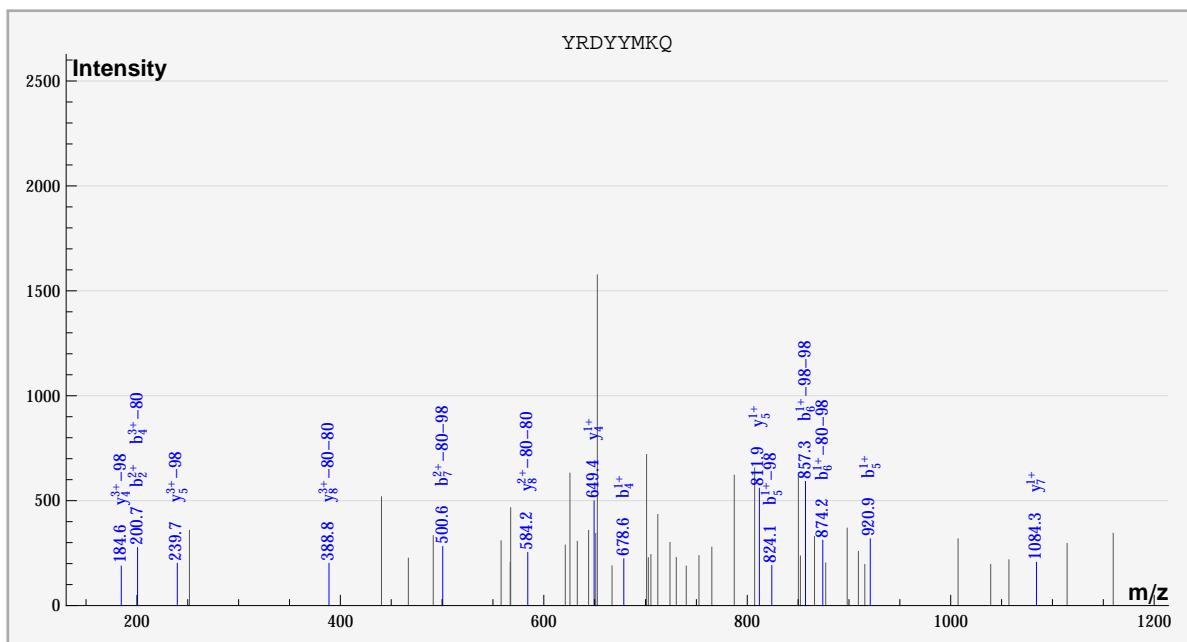
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							✓
R	2	✓		7	✓			
D	3			6				
Y	4	✓	✓	5	✓	✓		
Y	5	✓	✓	4	✓	✓		
M	6		✓	3				
K	7		✓	2				
Q	8			1				
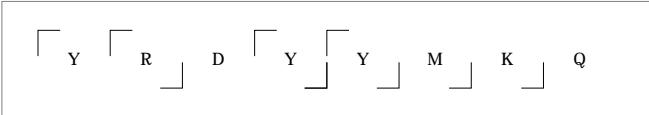
dbValid true KVLSTLLQNTK PHOS(1) 2. 662. 0.865422 4.95946 100. ? 2772.
S_Acido_new%gi|68568413|gb|AAY81342.1| KVLSTLLQNTK%::::::::::PHOS::%sample_3%cmpd_1308
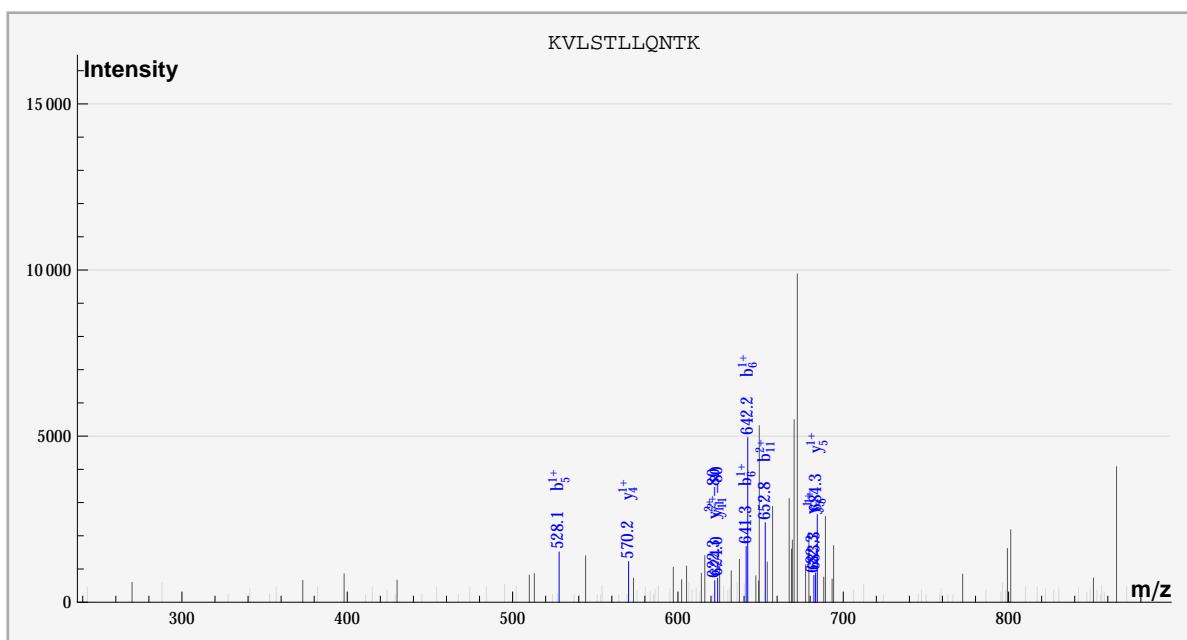
	#	b	b^*	#	y	y^*	**P**	**P***
K	1							✓
V	2			10				
L	3			9				
S	4			8				
T	5	✓		7				
L	6	✓		6				
L	7			5	✓			
Q	8			4	✓			
N	9			3				
T	10			2				
K	11	✓		1				

K V L S T⌐ L⌐ L⌐ Q N T K⌐
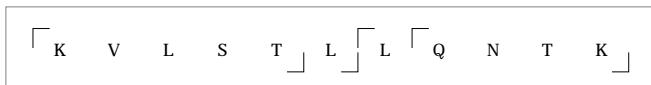
dbValid true DVYDIISSKK PHOS(2) 2. 663. 1.28273 5.02366 100. ? 1662.
S_Acido_new%gi|68568498|gb|AAY81427.1| DVYDIISSKK%:::PHOS:::::PHOS:::%sample_0%cmpd_386

DVYDIISSKK

	♯	b	b*	♯	y	y*	P	P*
D	1							✓
V	2			9		✓		
Y	3			8		✓		
D	4	✓		7		✓		
I	5			6	✓			
I	6	✓		5	✓			
S	7			4	✓	✓		
S	8	✓	✓	3				
K	9			2				
K	10		✓	1				
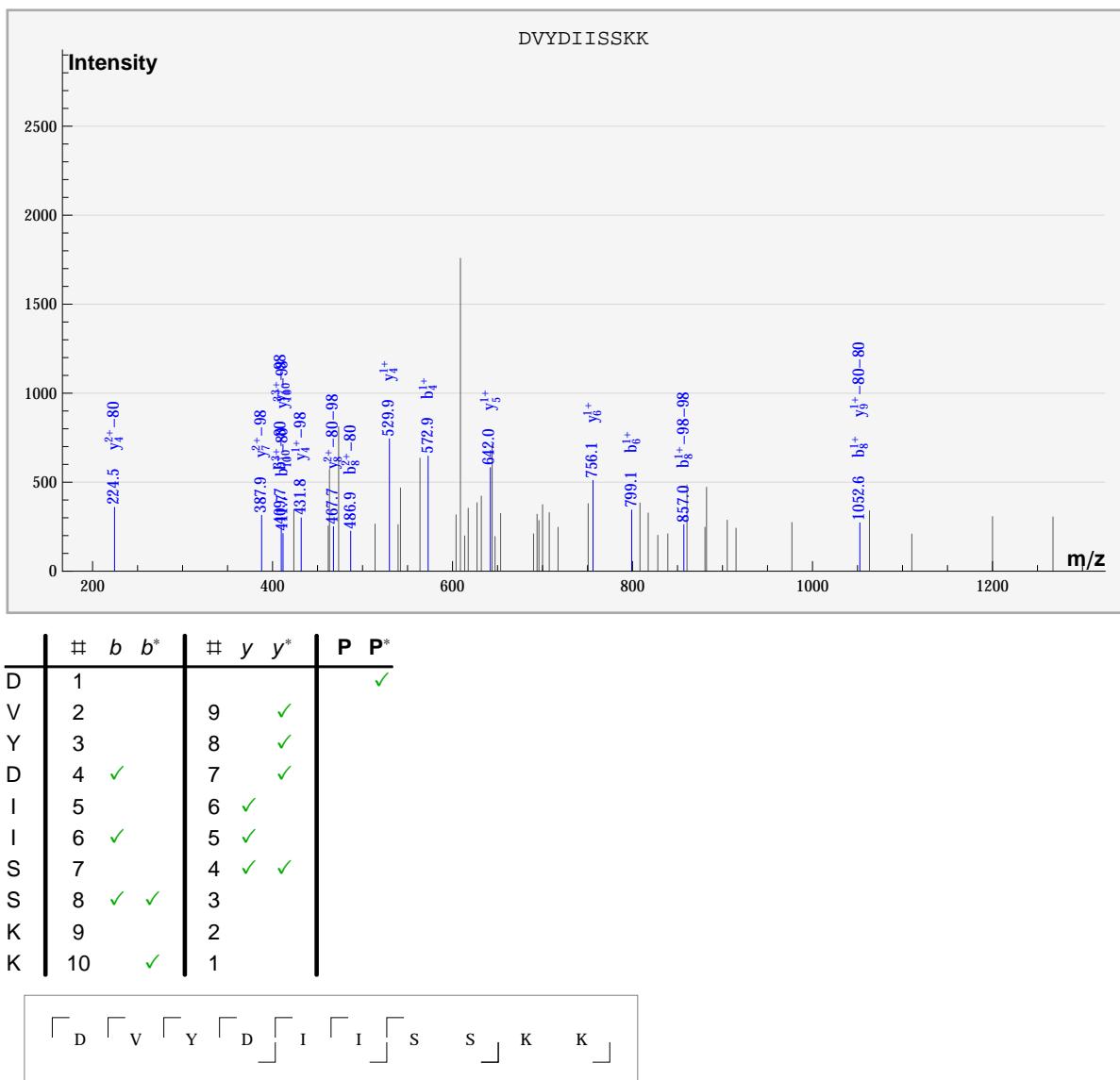
dbValid true KETVSNNKNK PHOS(2) 2. 663. −1.71894 5.16921 100. ? 1902.
 S_Acido_new%gi|68566747|gb|AAY79676.1| KETVSNNKNK%:::PHOS::PHOS::::::%sample_3%cmpd_577

KETVSNNKNK
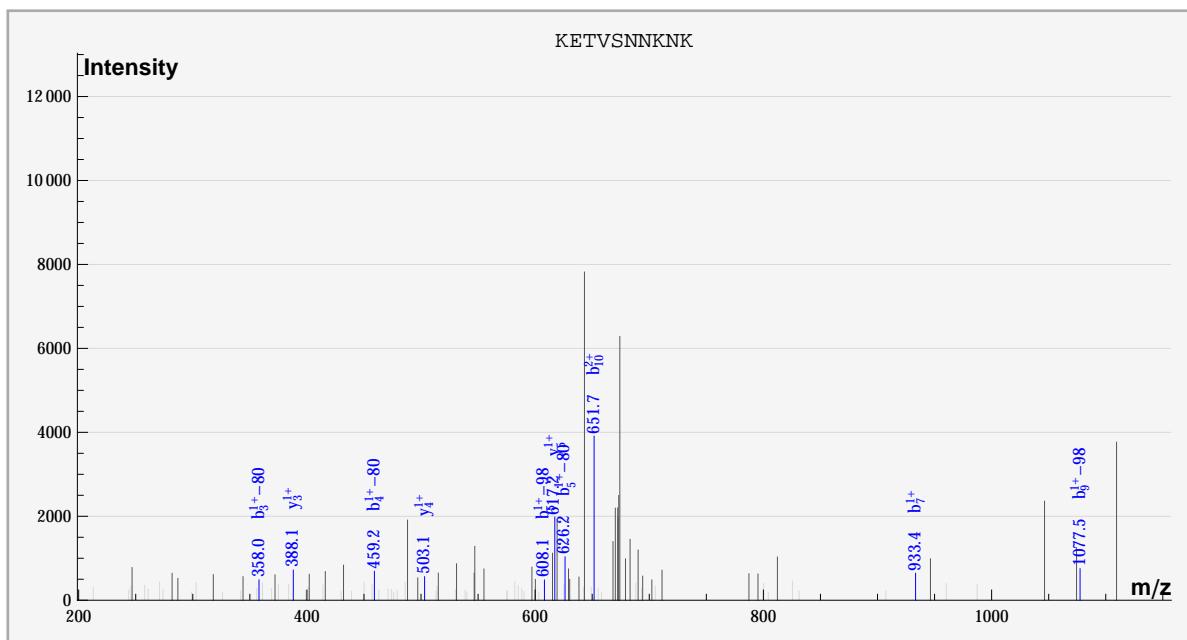
		♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K		1							
E		2			9				
T		3		✓	8				
V		4		✓	7				
S		5		✓	6				
N		6			5		✓		
N		7	✓		4		✓		
K		8			3		✓		
N		9		✓	2				
K		10	✓		1				
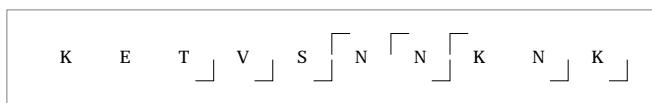
dbValid true RDTLQGISVKK PHOS(1) 2. 663. −0.147158 5.25106 100. ? 2412.
S_Acido_new%gi|68567937|gb|AAY80866.1| RDTLQGISVKK%:::PHOS::::::::::%sample_0%cmpd_1070
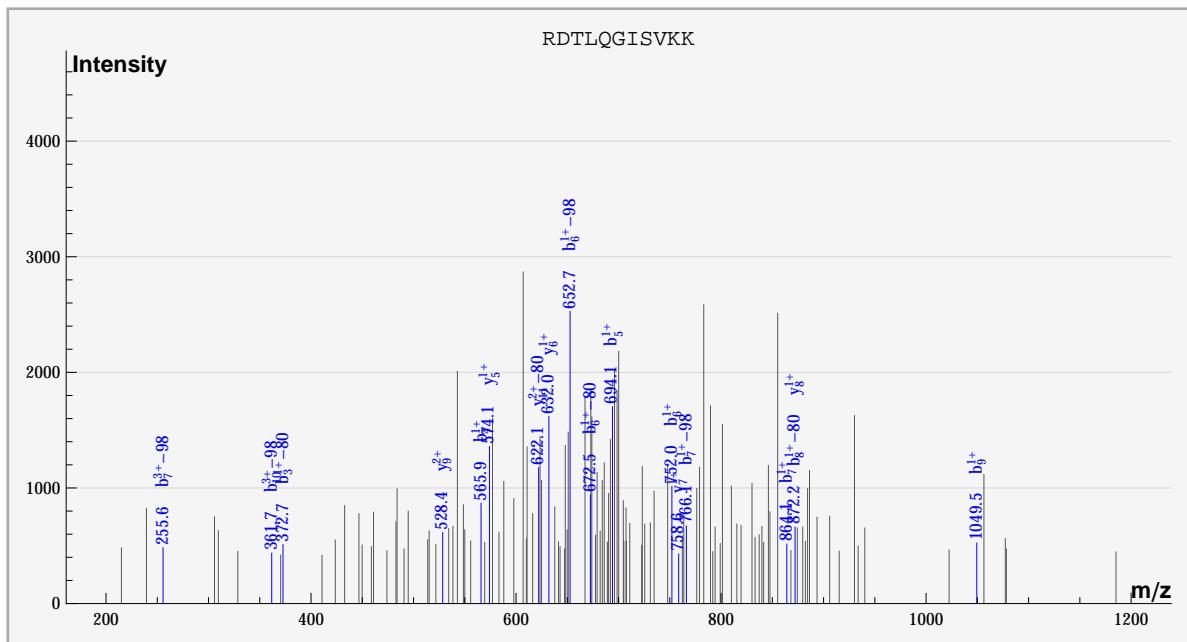
RDTLQGISVKK

	#	b	b*	#	y	y*	P	P*
R	1							✓
D	2			10				
T	3		✓	9	✓			
L	4	✓		8	✓			
Q	5	✓		7	✓			
G	6	✓	✓	6	✓			
I	7	✓	✓	5	✓			
S	8		✓	4				
V	9	✓		3				
K	10		✓	2				
K	11			1				

R D T L Q G I S V K K

dbValid true YYEAIIQLR PHOS(2) 2. 663. 1.78798 5.23414 100. ? 2556.
S_Acido_new%gi|68567392|gb|AAY80321.1| YYEAIIQLR%:PHOS:PHOS::::::::%sample_3%cmpd_1126
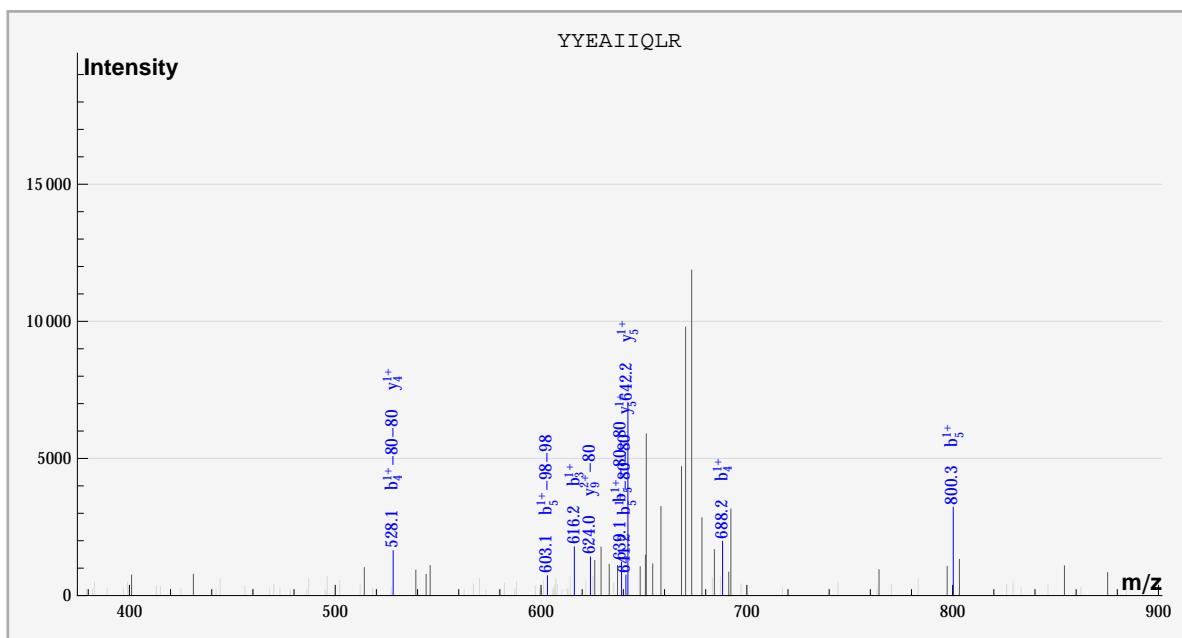
	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
Y	2			8				
E	3	✓		7				
A	4	✓	✓	6				
I	5	✓	✓	5	✓			
I	6			4	✓			
Q	7			3				
L	8			2				
R	9			1				

Y Y E A I I Q L R
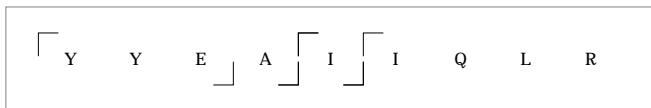
dbValid true GEGYTVVSLSR PHOS(2) 2. 664. 0.270152 5.04318 100. ? 3234.
S_Acido_new%gi|68567705|gb|AAY80634.1| GEGYTVVSLSR%::::::::PHOS::PHOS::%sample_0%cmpd_1824
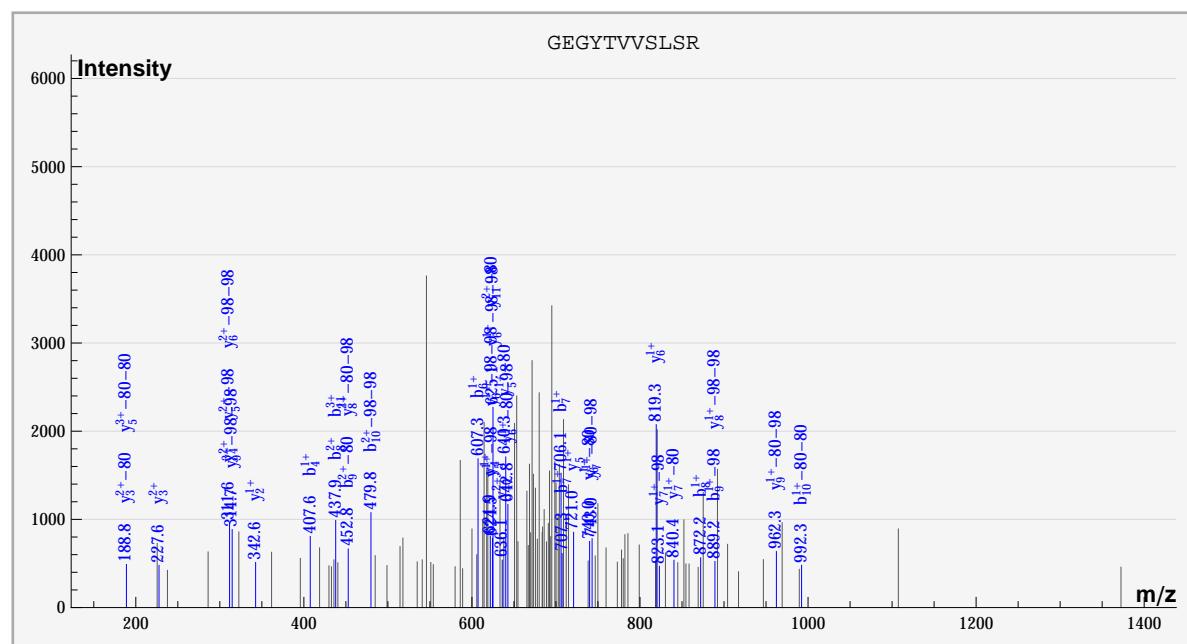
	♯	b	b*	♯	y	y*	P	P*
G	1							✓
E	2			10	✓			
G	3			9		✓		
Y	4	✓		8		✓		
T	5			7		✓		
V	6	✓		6	✓	✓		
V	7	✓		5	✓	✓		
S	8	✓		4	✓			
L	9		✓	3	✓	✓		
S	10		✓	2	✓			
R	11	✓		1				
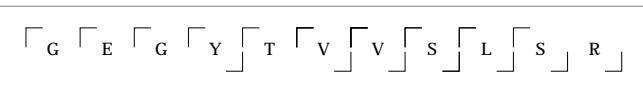
dbValid   true   GVWAHEVGFSR   PHOS(1)   2.   664.   −1.20468   5.2032   100.   ?   3660.
   S_Acido_new%gi|68568420|gb|AAY81349.1| GVWAHEVGFSR%:::::::::::PHOS::%sample_0%cmpd_2210
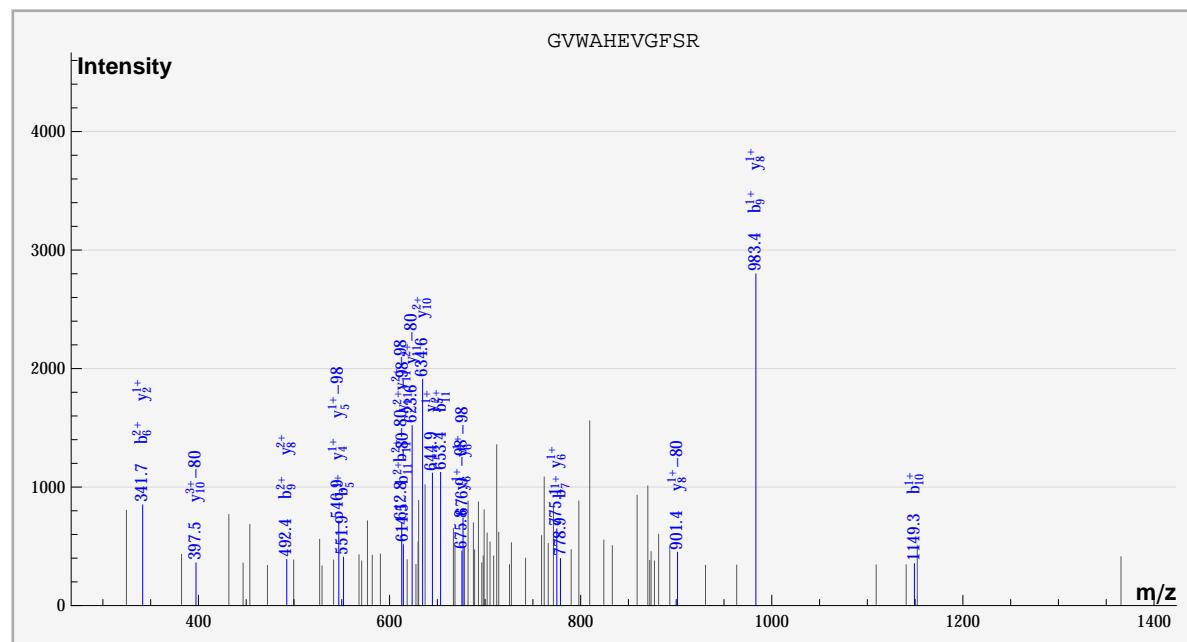
	#	b	b*	#	y	y*	P	P*
G	1							✓
V	2			10	✓	✓		
W	3			9				
A	4			8	✓	✓		
H	5	✓		7				
E	6	✓		6	✓	✓		
V	7	✓		5	✓	✓		
G	8			4	✓			
F	9	✓		3				
S	10	✓		2	✓			
R	11	✓	✓	1				
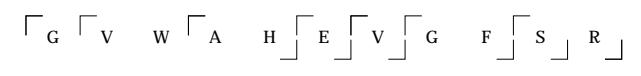
dbValid   true   IYMKYCDR   Cys_CAM(1),Oxidation_M(1),PHOS(2)   2.   664.   −1.27125   5.12568   100.   ?   402.
    S_Acido_new%gi|68566621|gb|AAY79550.1| IYMKYCDR%::PHOS:Oxidation_M::PHOS:Cys_CAM:::%sample_0%cmpd_2470
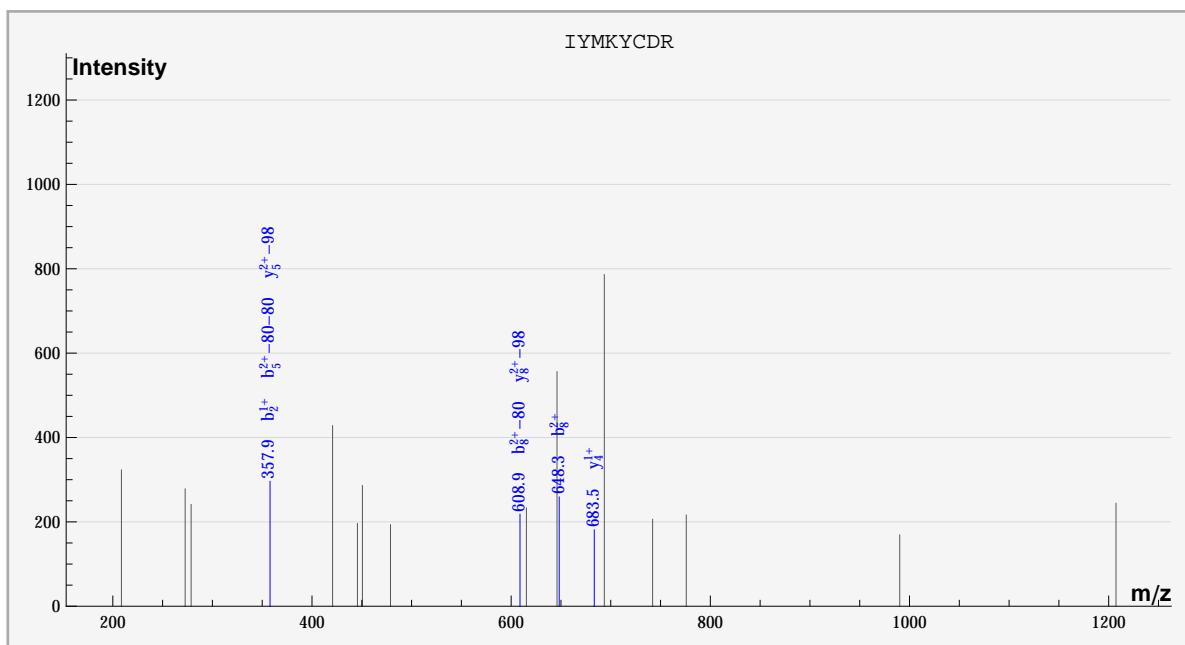
	#	b	b*		#	y	y*		P	P*
I	1									✓
Y	2	✓			7					
M	3				6					
K	4				5		✓			
Y	5		✓		4	✓				
C	6				3					
D	7				2					
R	8	✓	✓		1					
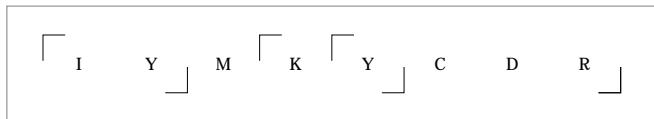
dbValid true RIRSSNGTLNK PHOS(1) 2. 665. −1.6621 4.94187 100. ? 2376.
S_Acido_new%gi|68568025|gb|AAY80954.1| RIRSSNGTLNK%::::::::PHOS::::%sample_0%cmpd_1039

RIRSSNGTLNK
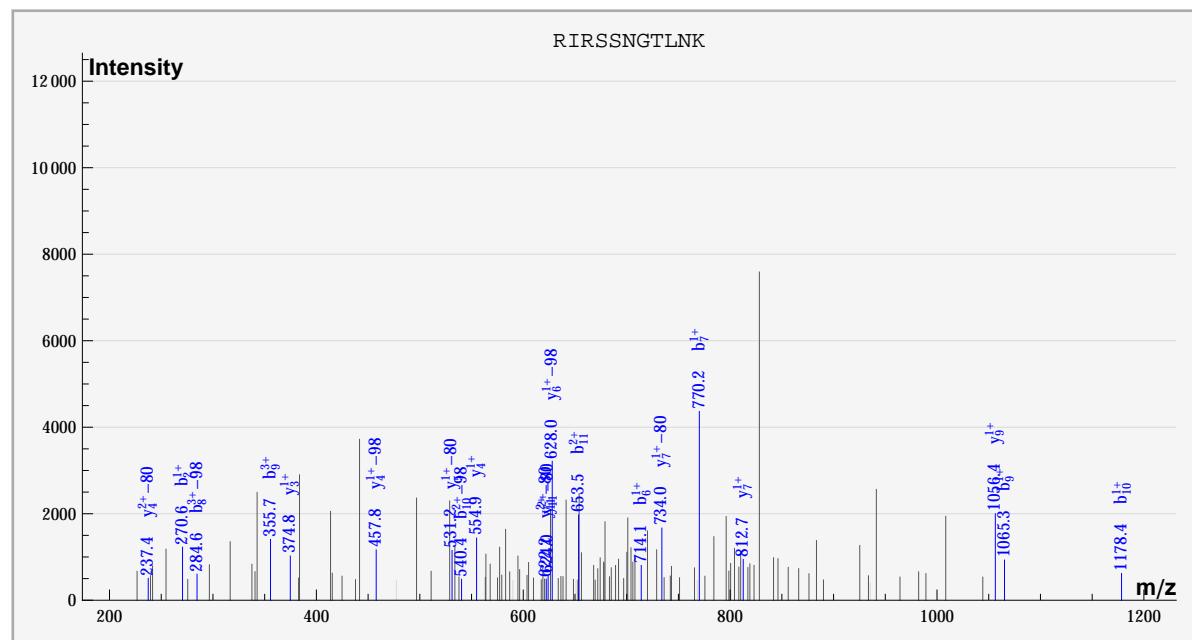
|	#	b	b*	#	y	y*	P	P*
R	1							✓
I	2	✓		10				
R	3			9	✓			
S	4			8				
S	5			7	✓	✓		
N	6	✓		6		✓		
G	7	✓		5		✓		
T	8		✓	4	✓	✓		
L	9	✓		3	✓			
N	10	✓	✓	2				
K	11	✓		1				

R I R S S N G T L N K
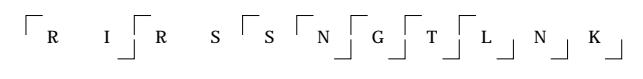
dbValid true RGLDALGVEYR PHOS(1) 2. 665. −0.178463 5.27653 100. ? 2508.
S_Acido_new%gi|68566912|gb|AAY79841.1| RGLDALGVEYR%::::::::::PHOS::%sample_0%cmpd_1161
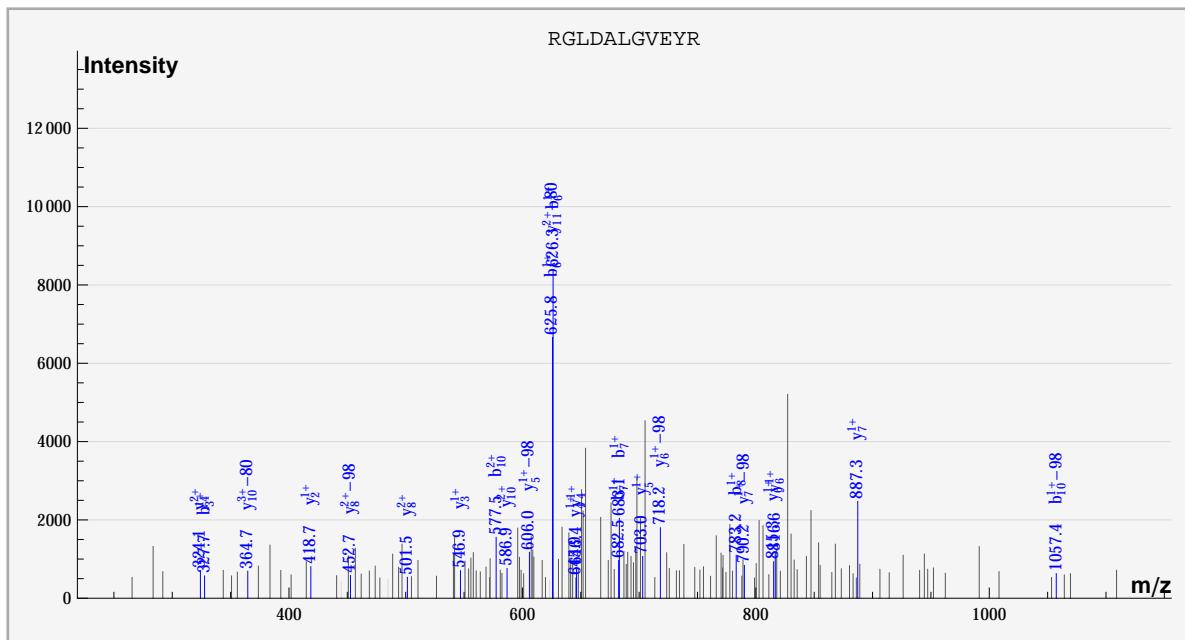
| ♯	b	b*	♯	y	y*	P	P*
R	1							✓
G	2			10	✓	✓		
L	3	✓		9				
D	4			8	✓	✓		
A	5			7	✓	✓		
L	6	✓		6	✓	✓		
G	7	✓		5	✓	✓		
V	8	✓		4	✓			
E	9			3	✓			
Y	10	✓	✓	2	✓			
R	11			1				

R G L D A L G V E Y R

dbValid true FVSKSVALPAVK PHOS(1) 2. 665. −1.63495 5.56645 100. ? 3648.
  S_Acido_new%gi|68567852|gb|AAY80781.1| FVSKSVALPAVK%:::PHOS:::::::::::%sample_0%cmpd_2201
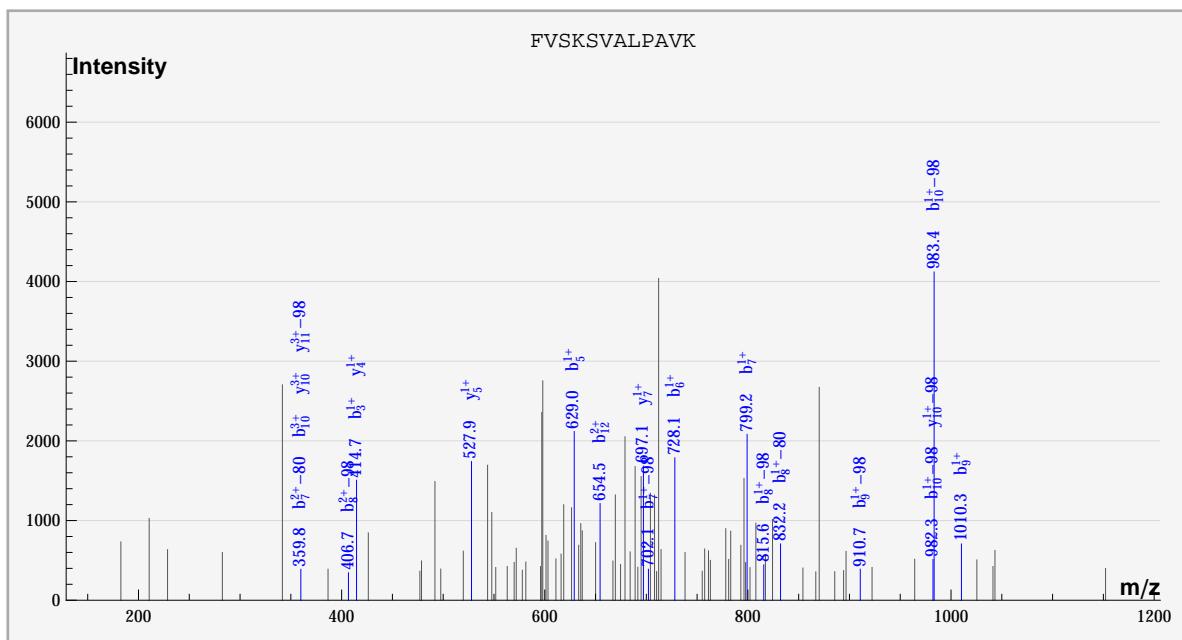
	#	b	b*		#	y	y*		P	P*
F	1									
V	2				11		✓			
S	3	✓			10	✓	✓			
K	4				9					
S	5	✓			8					
V	6	✓			7	✓				
A	7	✓	✓		6					
L	8		✓		5	✓				
P	9	✓	✓		4	✓				
A	10	✓	✓		3					
V	11				2					
K	12	✓			1					

F ⌐V ⌐S ⌐ K S ⌐V ⌐A ⌐L ⌐P ⌐A ⌐V K ⌐

dbValid true ESGGMSASTITK PHOS(2) 2. 665. −0.254343 5.6482 100. ? 3912.
S_Acido_new%gi|68566965|gb|AAY79894.1| ESGGMSASTITK%::PHOS:::::::PHOS::::%sample_0%cmpd_2444
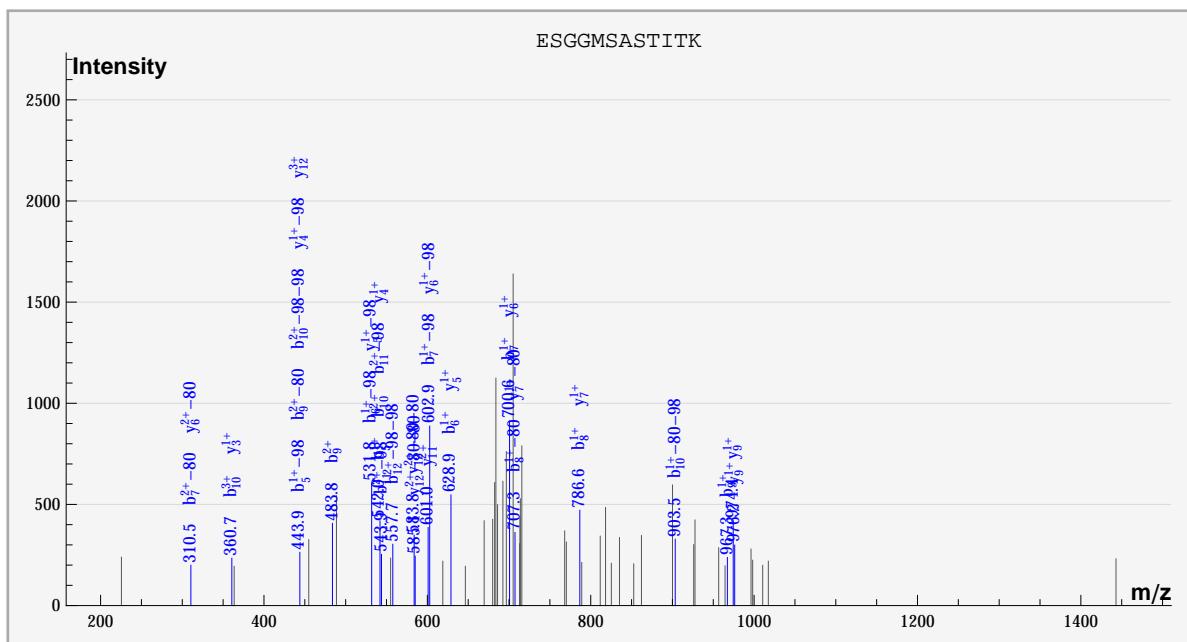
	#	b	b*	#	y	y*	P	P*
E	1						✓	✓
S	2			11	✓			
G	3			10				
G	4			9	✓			
M	5	✓	✓	8				
S	6	✓	✓	7	✓	✓		
A	7	✓	✓	6	✓	✓		
S	8	✓	✓	5	✓	✓		
T	9	✓	✓	4	✓	✓		
I	10	✓	✓	3	✓			
T	11		✓	2				
K	12		✓	1				

dbValid true VVWLSEEEKK PHOS(1) 2. 665.14 −1.31933 5.03533 100. ? 2016.
   S_Acido_new%gi|68566862|gb|AAY79791.1| VVWLSEEEKK%:::::PHOS::::::%sample_1%cmpd_680
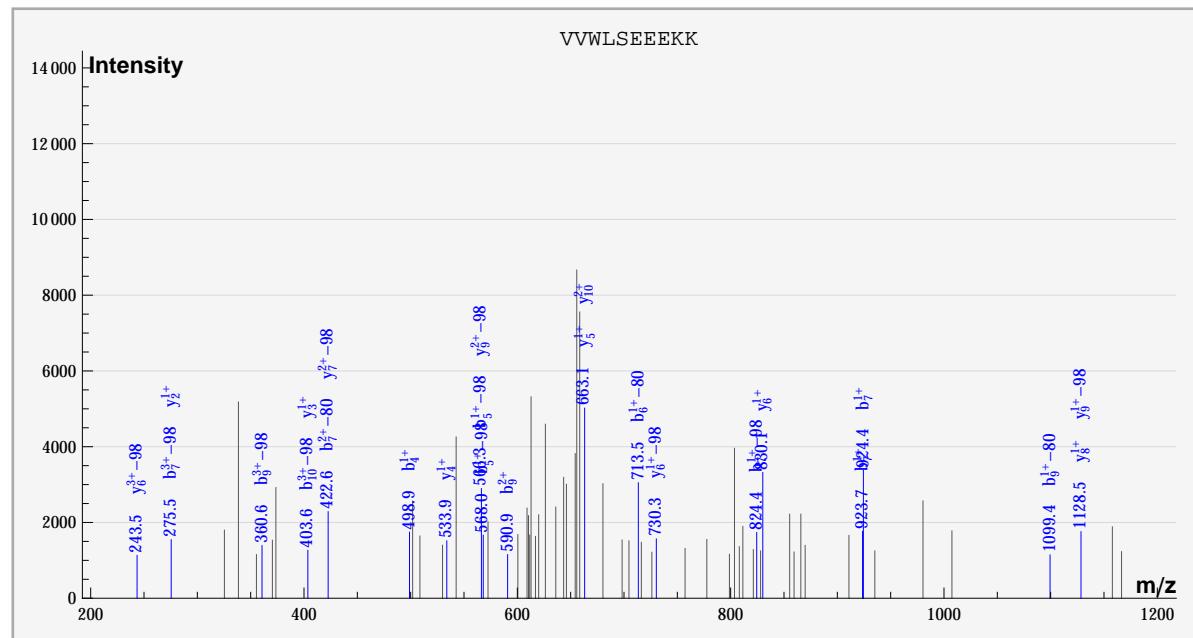
| #	b	b*	#	y	y*	P	P*
V	1						✓
V	2		9		✓		
W	3		8	✓			
L	4	✓	7		✓		
S	5	✓	6	✓	✓		
E	6	✓	5	✓			
E	7	✓ ✓	4	✓			
E	8		3	✓			
K	9	✓ ✓	2	✓			
K	10	✓	1				

dbValid true KENEKALEYK PHOS(1) 2. 666. 0.315757 5.03754 100. ? 2730.
S_Acido_new%gi|68567153|gb|AAY80082.1| KENEKALEYK%::::::::::PHOS::%sample_2%cmpd_1285
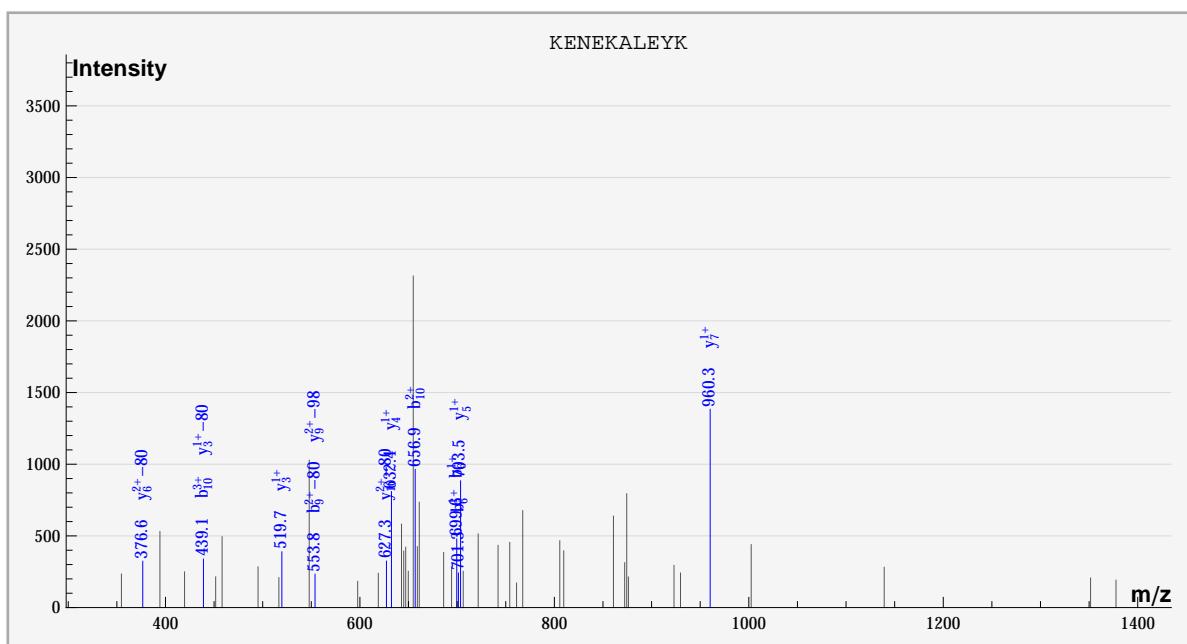
|	#	b	b*	#	y	y*	P	P*
K	1							✓
E	2			9		✓		
N	3			8				
E	4			7	✓			
K	5			6		✓		
A	6	✓		5	✓			
L	7			4	✓			
E	8			3	✓	✓		
Y	9		✓	2				
K	10	✓		1				
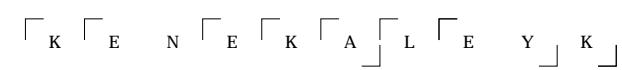
dbValid true YNDAMNIVRR PHOS(1) 2. 668. −1.70007 5.02851 100. ? 2340.
S_Acido_new%gi|68566710|gb|AAY79639.1| YNDAMNIVRR%:PHOS:::::::::%sample_3%cmpd_948
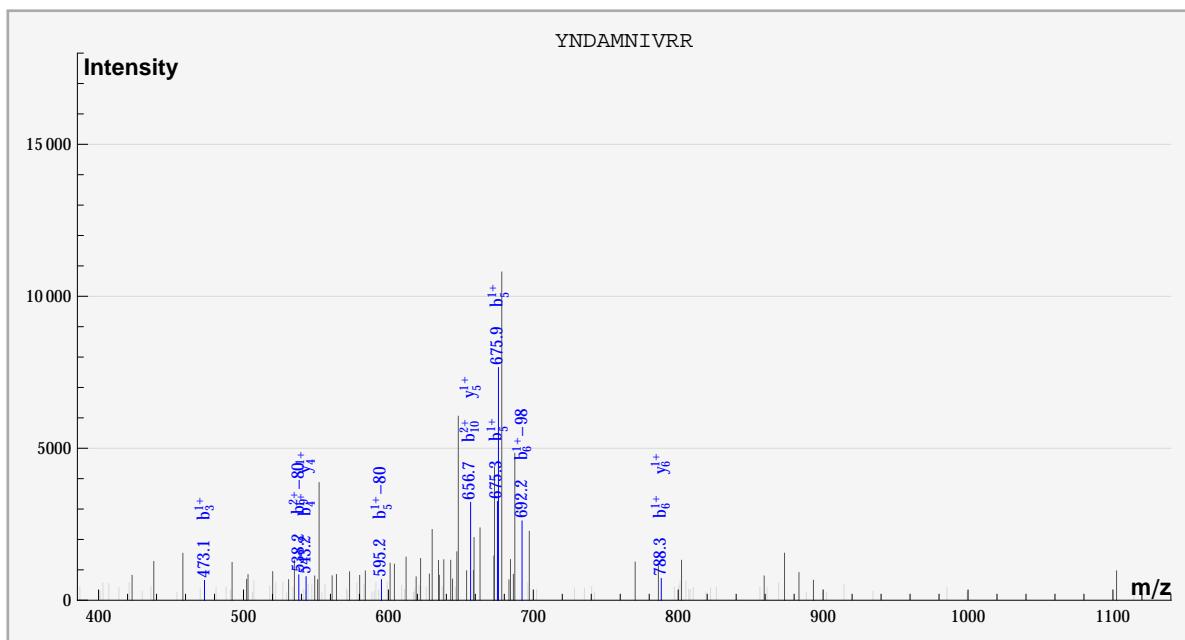
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							
N	2			9				
D	3	✓		8				
A	4	✓		7				
M	5	✓	✓	6	✓			
N	6	✓	✓	5	✓			
I	7			4	✓			
V	8			3				
R	9		✓	2				
R	10	✓		1				

dbValid true VYDSIEYLQK PHOS(1) 2. 668. 1.30486 5.14505 100. ? 3054.
S_Acido_new%gi|68568630|gb|AAY81559.1| VYDSIEYLQK%::PHOS::::::::%sample_2%cmpd_1564
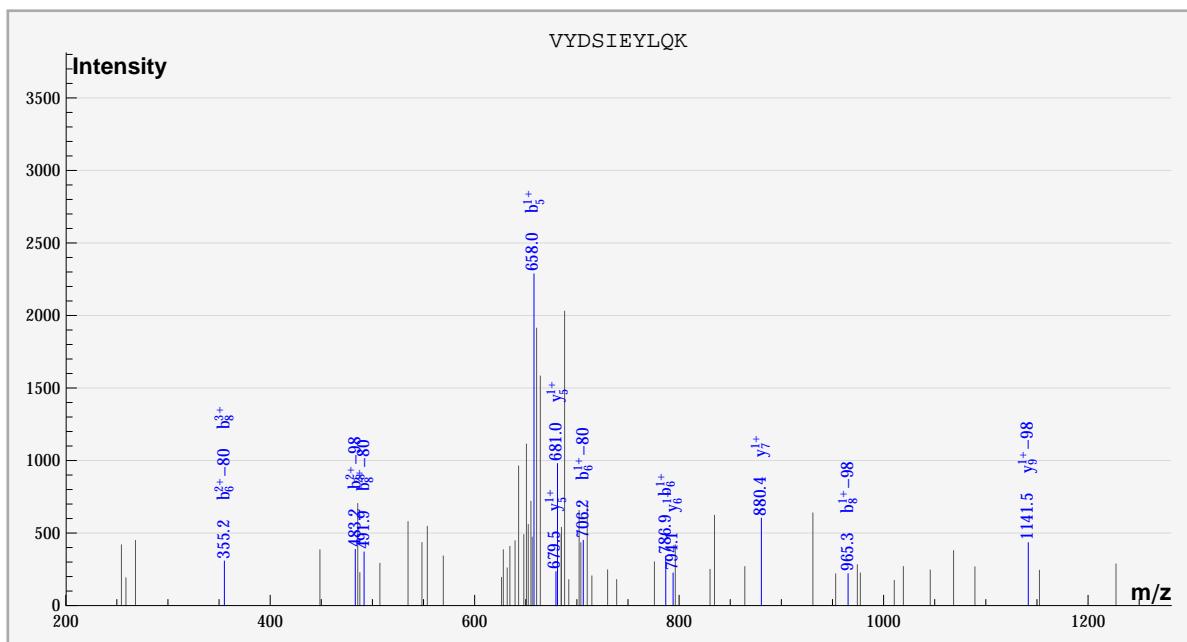

	#	b	b*	#	y	y*	P	P*
V	1							
Y	2			9		✓		
D	3			8				
S	4			7	✓			
I	5	✓		6	✓			
E	6	✓	✓	5	✓			
Y	7			4				
L	8	✓	✓	3				
Q	9			2				
K	10			1				

dbValid true KLTYHDLYK PHOS(2) 2. 669. 1.78798 4.9251 100. ? 2208.
S_Acido_new%gi|68566793|gb|AAY79722.1| KLTYHDLYK%:::PHOS:PHOS::::::%sample_3%cmpd_838


	♯	b	b^*	♯	y	y^*	P	P*
K	1							✓
L	2			8				
T	3	✓	✓	7		✓		
Y	4		✓	6				
H	5	✓	✓	5	✓			
D	6			4	✓			
L	7			3	✓			
Y	8			2	✓			
K	9		✓	1				
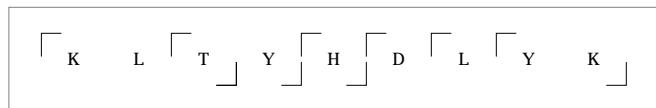
dbValid true KLTYHDLYK PHOS(2) 2. 669. 1.78798 5.04828 100. ? 2256.
S_Acido_new%gi|68566793|gb|AAY79722.1| KLTYHDLYK%:::PHOS:PHOS::::::%sample_3%cmpd_878
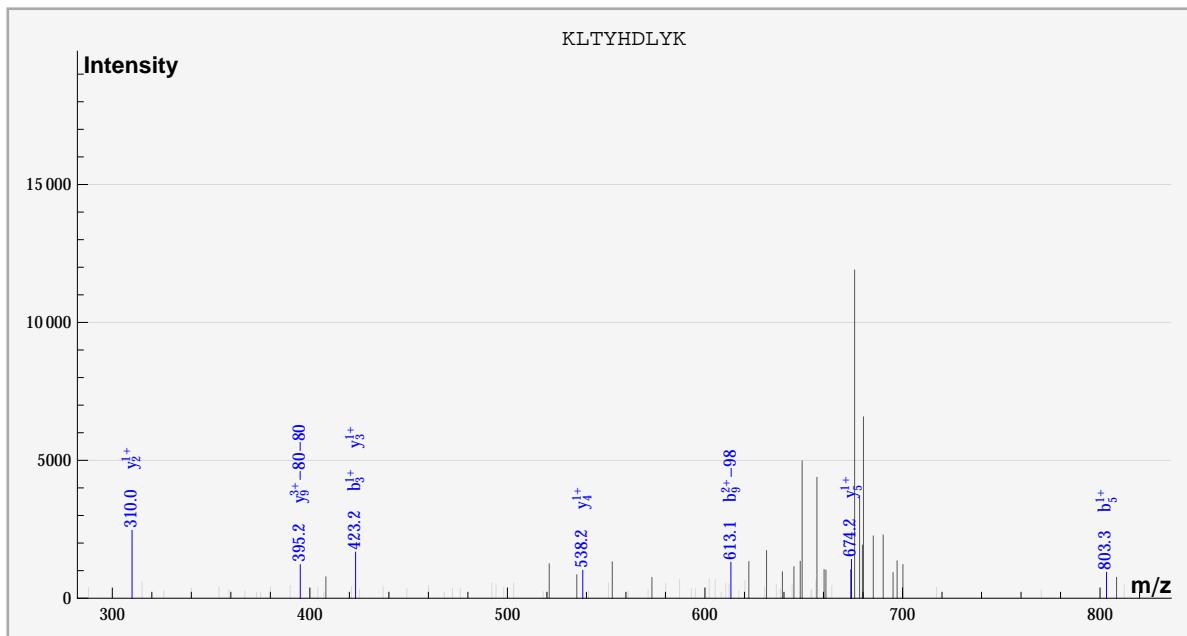
	#	b	b*	#	y	y*	P	P*
K	1							✓
L	2			8				
T	3	✓		7				
Y	4			6				
H	5	✓		5	✓			
D	6			4	✓			
L	7			3	✓			
Y	8			2	✓			
K	9		✓	1				
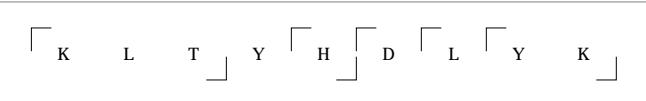
dbValid true DYREALARIR PHOS(1) 2. 670. 1.83498 5.22757 100. ? 2730.
S_Acido_new%gi|68567654|gb|AAY80583.1| DYREALARIR%::PHOS:::::::::%sample_0%cmpd_1352
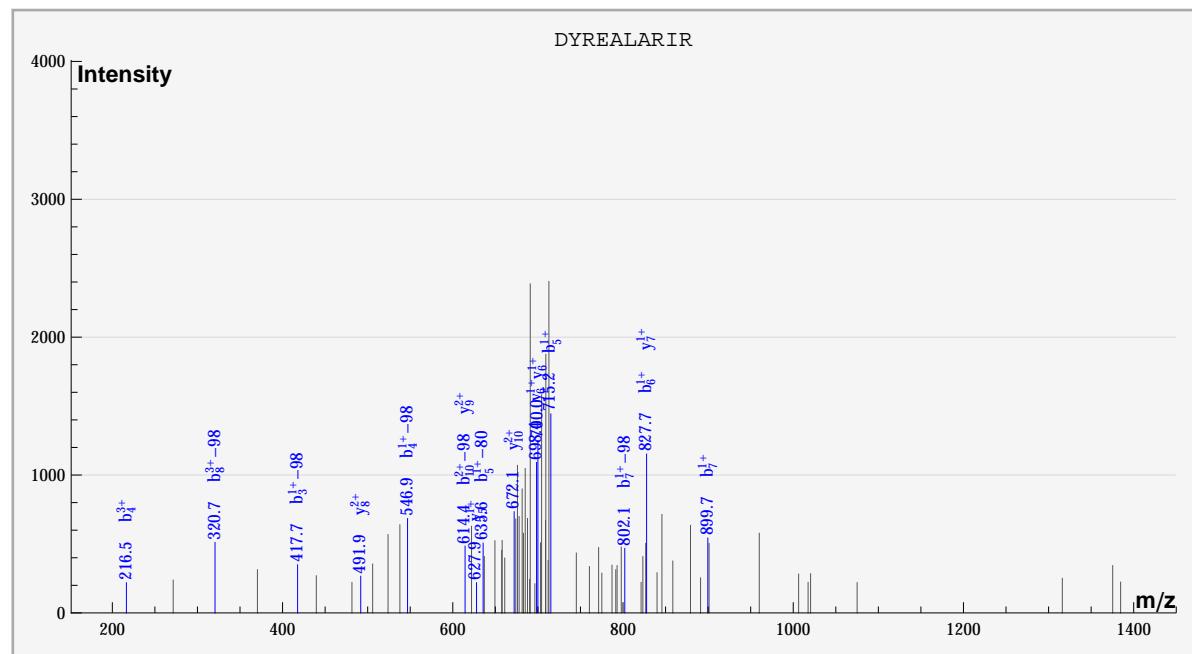
|	♯	b	b*	♯	y	y*	P	P*
D	1						✓	
Y	2			9	✓			
R	3		✓	8	✓			
E	4	✓	✓	7	✓			
A	5	✓	✓	6	✓			
L	6	✓		5	✓			
A	7	✓	✓	4				
R	8		✓	3				
I	9			2				
R	10		✓	1				

dbValid   true   LWEEFEDYK   PHOS(1)   2.   671.   −1.23189   5.88494   100.   ?   1806.
S_Acido_new%gi|68567492|gb|AAY80421.1| LWEEFEDYK%::::::::PHOS::%sample_0%cmpd_513

LWEEFEDYK
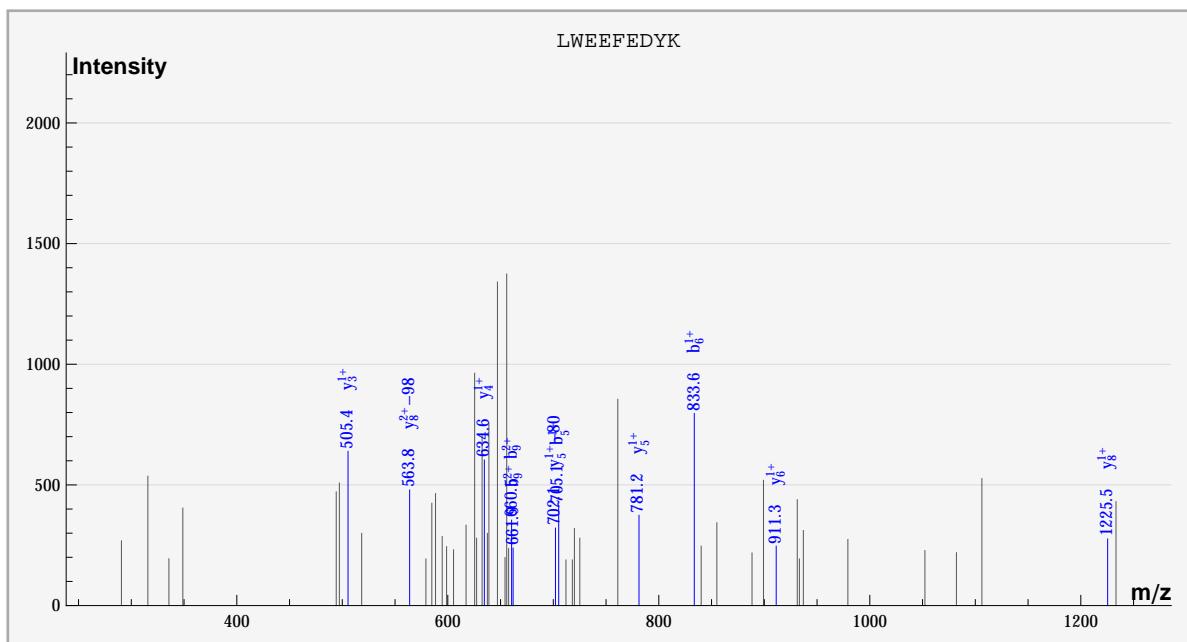
	#	b	b*	#	y	y*	P	P*
L	1							
W	2			8	✓	✓		
E	3			7				
E	4			6	✓			
F	5	✓		5	✓	✓		
E	6	✓		4	✓			
D	7			3	✓			
Y	8			2				
K	9	✓		1				
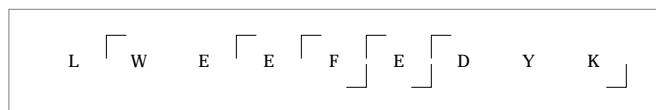
dbValid true KLTYHDLYK PHOS(2) 2. 671. −0.212018 5.39818 100. ? 2346.
S_Acido_new%gi|68566793|gb|AAY79722.1| KLTYHDLYK%:::PHOS:PHOS::::::%sample_0%cmpd_957
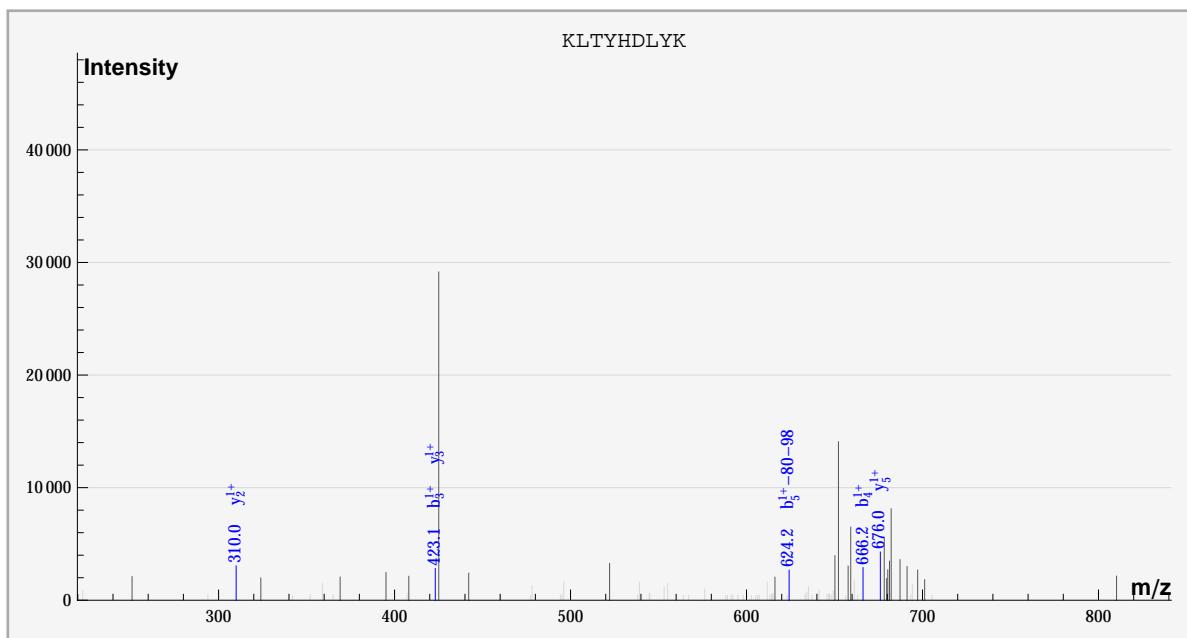
♯	b	b*	♯	y	y*	P	P*
K	1							
L	2			8				
T	3	✓		7				
Y	4	✓		6				
H	5		✓	5	✓			
D	6			4				
L	7			3	✓			
Y	8			2	✓			
K	9			1				

dbValid true KTIILDLVGYK PHOS(1) 2. 671. 0.872707 5.15447 100. ? 2556.
S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS:::::::::%sample_0%cmpd_1144

|	♯	b	b*	♯	y	y*	P	P*
K	1							
T	2	✓		10				
I	3	✓		9				
I	4	✓	✓	8				
L	5	✓	✓	7	✓			
D	6		✓	6	✓			
L	7			5	✓			
V	8	✓		4	✓			
G	9			3				
Y	10			2	✓			
K	11			1				
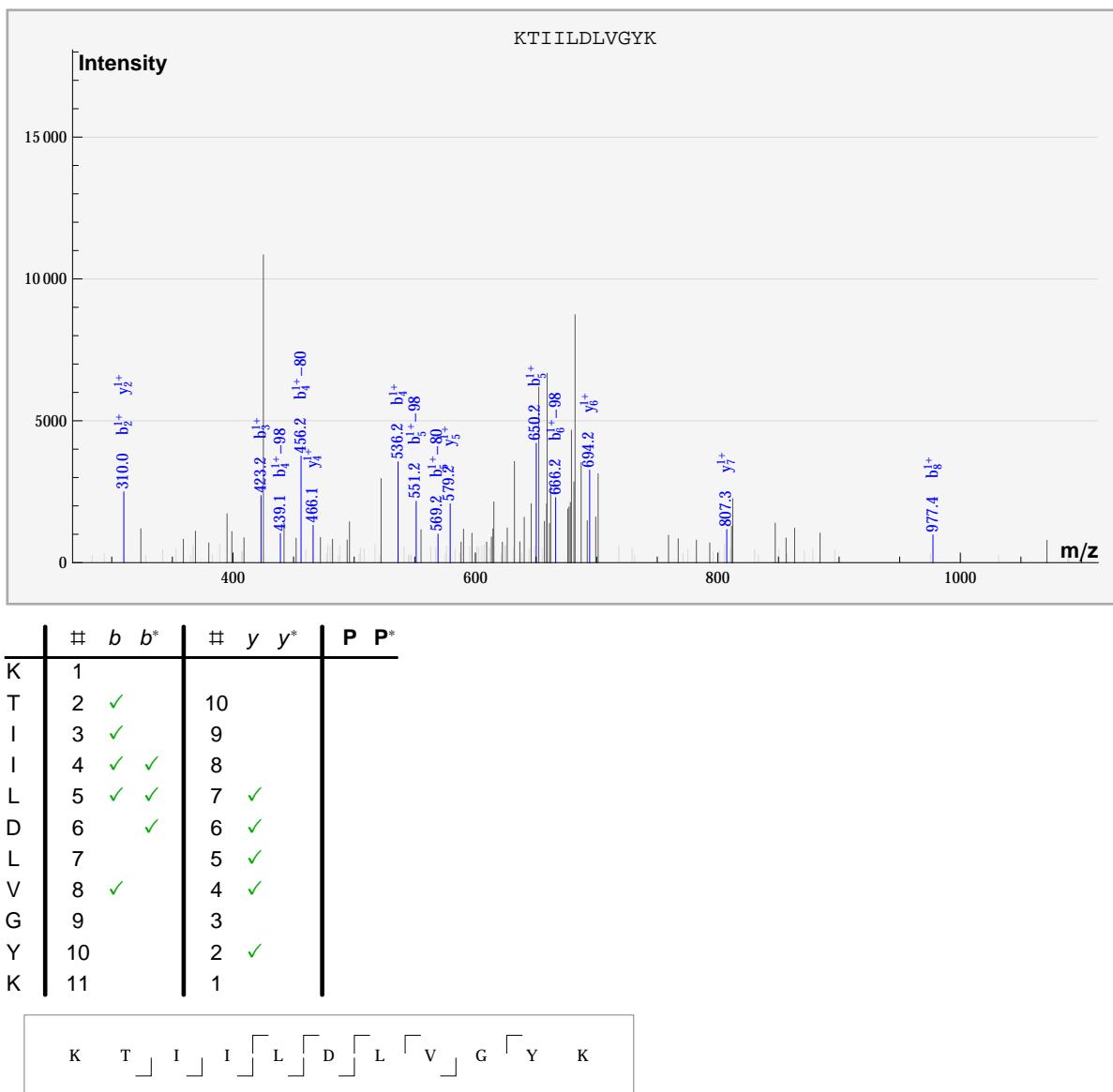
dbValid true KTIILDLVGYK PHOS(1) 2. 671. 0.872707 5.25437 100. ? 2586.
 S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS:::::::::::%sample_0%cmpd_1165

|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K	1							
T	2	✓		10				
I	3	✓		9				
I	4	✓	✓	8				
L	5	✓		7	✓			
D	6		✓	6	✓			
L	7	✓		5	✓			
V	8	✓	✓	4	✓			
G	9			3				
Y	10			2	✓			
K	11			1				

dbValid true KTIILDLVGYK PHOS(1) 2. 671. 0.872707 5.41288 100. ? 2598.
S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS:::::::::%sample_0%cmpd_1175

| ♯	b	b^*	♯	y	y^*	**P**	**P***
K	1						
T	2	✓		10			
I	3	✓		9			
I	4	✓	✓	8			
L	5	✓	✓	7	✓		
D	6		✓	6	✓		
L	7	✓		5	✓		
V	8	✓	✓	4	✓		
G	9			3			
Y	10			2	✓		
K	11			1			

dbValid true KTIILDLVGYK PHOS(1) 2. 671. 0.872707 5.84899 100. ? 2676.
   S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS::::::::::%sample_0%cmpd_1248

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K	1							✓
T	2	✓		10				
I	3	✓	✓	9				
I	4	✓	✓	8				
L	5	✓	✓	7		✓		
D	6		✓	6		✓		
L	7			5		✓		
V	8		✓	4				
G	9			3				
Y	10			2		✓		
K	11			1				

dbValid true KTIILDLVGYK PHOS(1) 2. 671. 0.872707 6.10026 100. ? 2688.
S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS::::::::::%sample_0%cmpd_1258

	#	b	b*	#	y	y*	P	P*
K	1							✓
T	2	✓		10				
I	3	✓		9				
I	4	✓	✓	8				
L	5	✓	✓	7	✓			
D	6		✓	6	✓			
L	7			5	✓			
V	8		✓	4				
G	9			3				
Y	10			2	✓			
K	11	✓		1				

K T I I L D L V G Y K

dbValid   true   KTIILDLVGYK   PHOS(1)   2.   671.   0.872707   5.3156   100.   ?   2712.
   S_Acido_new%gi|68567257|gb|AAY80186.1| KTIILDLVGYK%::PHOS::::::::::%sample_0%cmpd_1279

♯	b	b*	♯	y	y*	P	P*
K	1							✓
T	2	✓		10				
I	3	✓		9				
I	4	✓	✓	8				
L	5	✓	✓	7	✓			
D	6		✓	6	✓			
L	7	✓		5	✓			
V	8	✓	✓	4				
G	9			3				
Y	10			2	✓			
K	11	✓		1				

K   T   I   I   L   D   L   V   G   Y   K

dbValid true RILDIVGFISK PHOS(1) 2. 671. −0.129503 5.24947 100. ? 3114.
   S_Acido_new%gi|68567344|gb|AAY80273.1| RILDIVGFISK%::::::::::PHOS::%sample_0%cmpd_1706
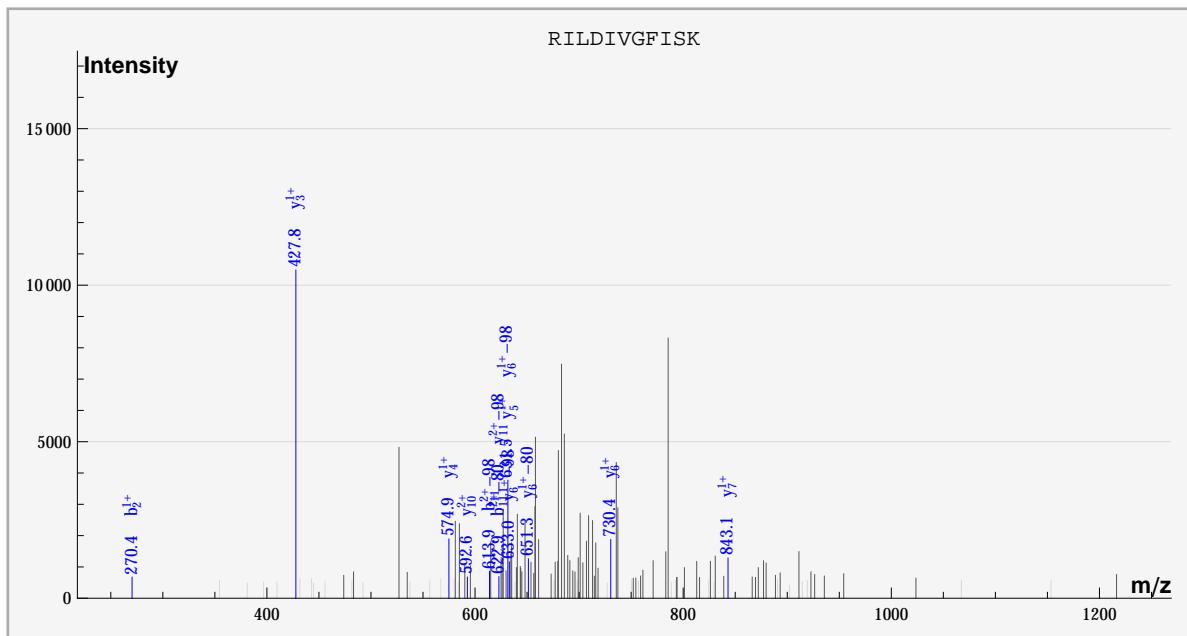
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
R	1							✓
I	2	✓		10	✓			
L	3			9				
D	4			8				
I	5			7	✓			
V	6			6	✓	✓		
G	7			5	✓			
F	8			4	✓			
I	9			3	✓			
S	10			2				
K	11		✓	1				

dbValid true MIKQILAYIR Oxidation_M(1),PHOS(1) 2. 671. 1.85908 5.22728 100. ? 4230.
  S_Acido_new%gi|68567947|gb|AAY80876.1| MIKQILAYIR%:Oxidation_M:::::::PHOS:::%sample_0%cmpd_2724
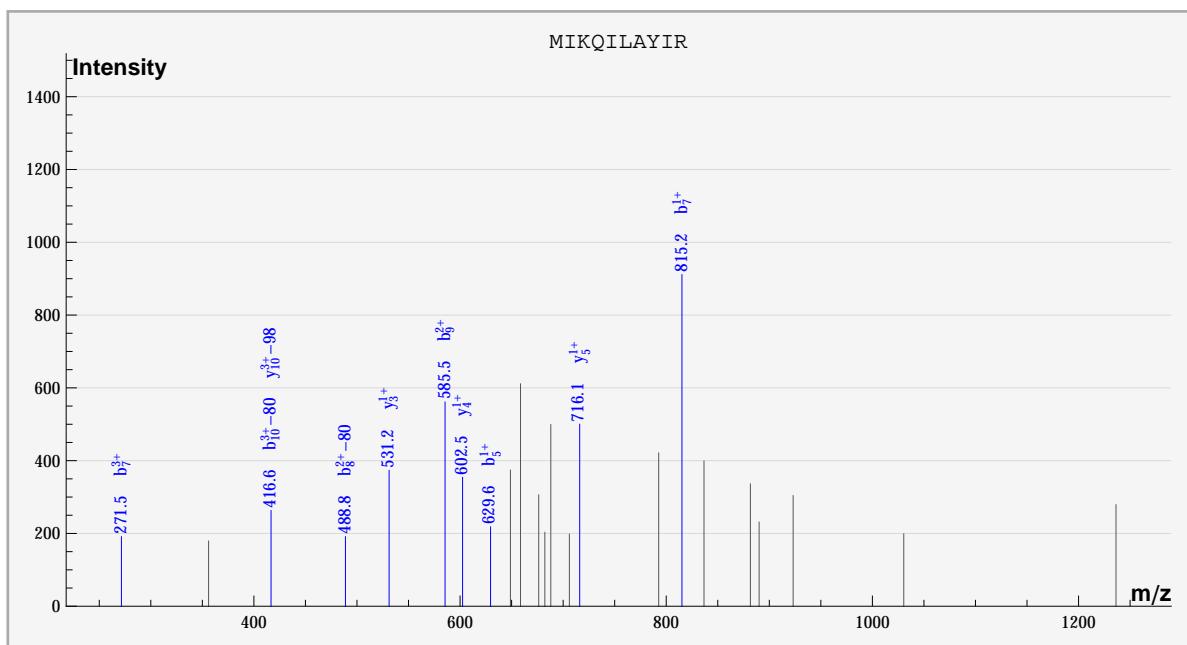
|	#	b	b*	#	y	y*	P	P*
M	1							✓
I	2			9				
K	3			8				
Q	4			7				
I	5	✓		6				
L	6			5	✓			
A	7	✓		4	✓			
Y	8		✓	3	✓			
I	9	✓		2				
R	10		✓	1				

M I K Q I L A Y I R
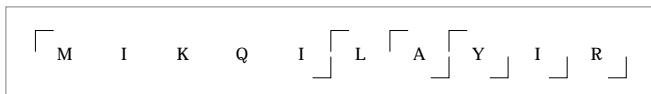
dbValid true KYINVIRDIK PHOS(1) 2. 672. −0.631873 5.17483 100. ? 1710.
   S_Acido_new%gi|68567496|gb|AAY80425.1| KYINVIRDIK%::PHOS::::::::::%sample_0%cmpd_426
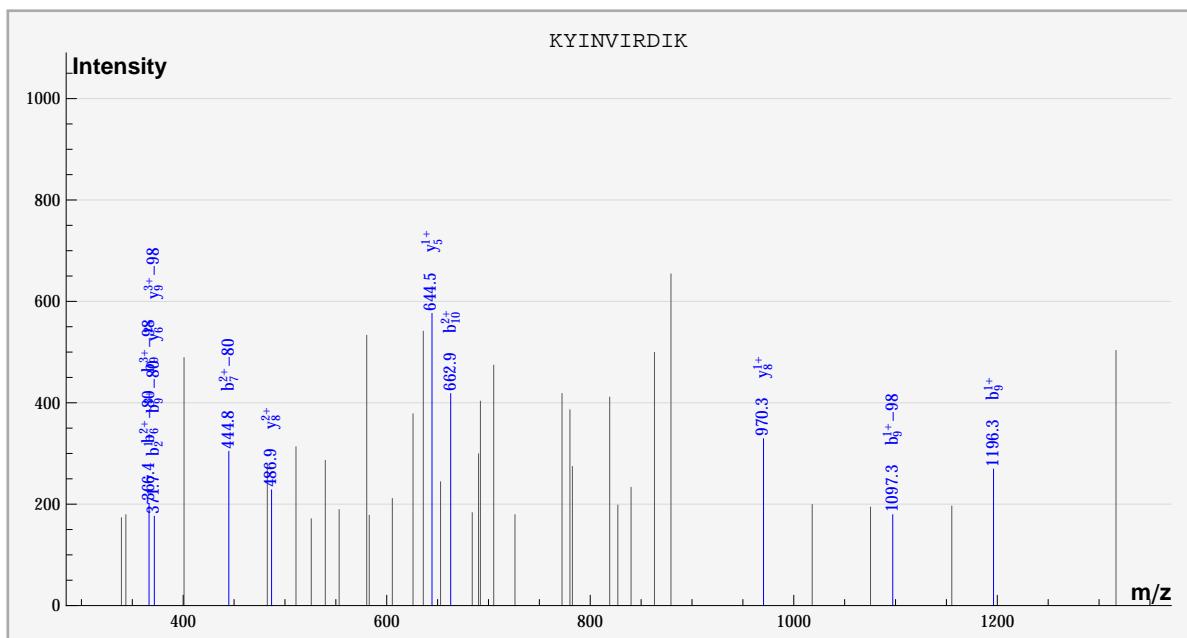
|	#	b	b*	#	y	y*	P	P*
K	1							
Y	2	✓		9		✓		
I	3			8	✓			
N	4			7				
V	5			6	✓			
I	6		✓	5	✓			
R	7		✓	4				
D	8			3				
I	9	✓	✓	2				
K	10	✓		1				
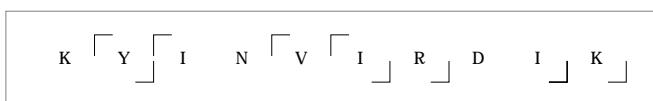
dbValid true IYEQTSIYSR PHOS(1) 2. 672. −1.69988 5.22299 100. ? 2706.
 S_Acido_new%gi|68567379|gb|AAY80308.1| IYEQTSIYSR%::PHOS:::::::::%sample_0%cmpd_1332
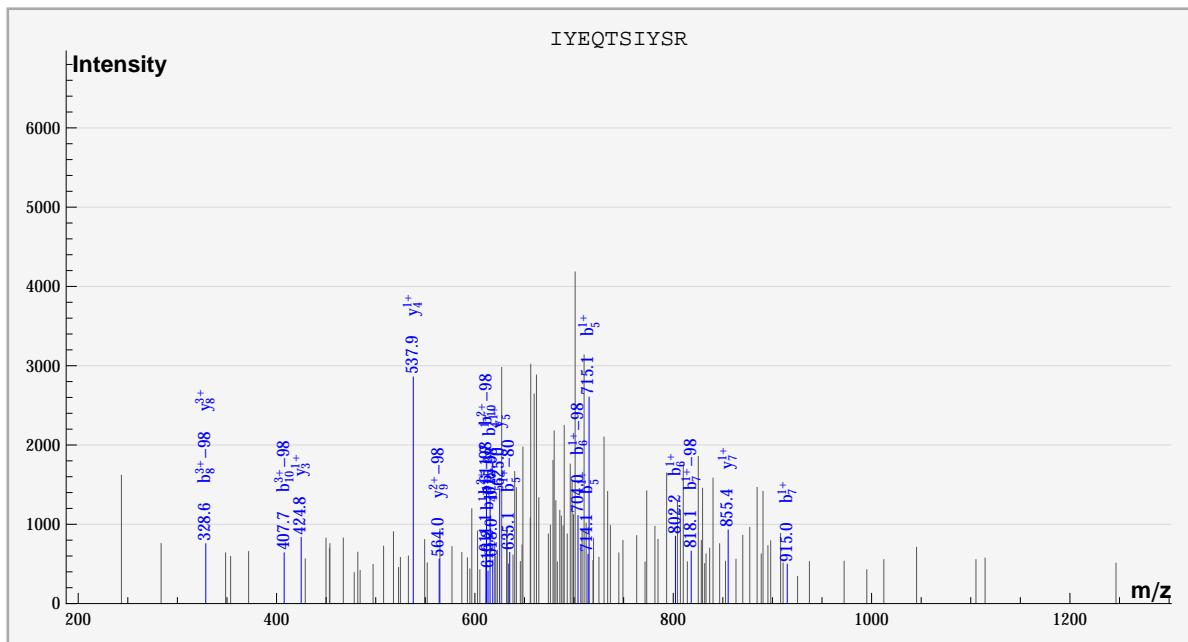
	♯	b	b*	♯	y	y*	P	P*
I	1							
Y	2			9		✓		
E	3			8	✓			
Q	4	✓		7	✓			
T	5	✓	✓	6				
S	6	✓	✓	5	✓			
I	7	✓	✓	4	✓			
Y	8		✓	3	✓			
S	9			2				
R	10		✓	1				

dbValid true SKENSTKEEK PHOS(2) 2. 672. −1.73747 5.00458 100. ? 3210.
 S_Acido_new%gi|68567804|gb|AAY80733.1| SKENSTKEEK%:PHOS::::PHOS::::::%sample_0%cmpd_1703
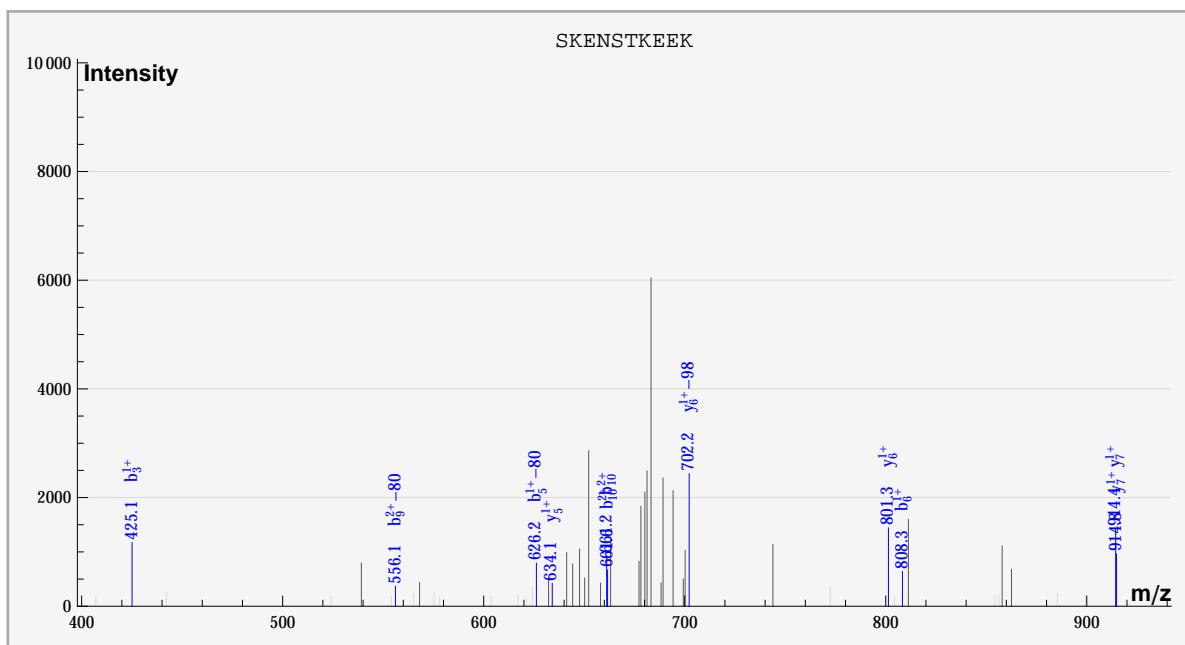
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
S	1							
K	2			9				
E	3	✓		8				
N	4			7	✓			
S	5		✓	6	✓	✓		
T	6	✓		5	✓			
K	7			4				
E	8			3				
E	9		✓	2				
K	10	✓		1				

S K E N S T K E E K

dbValid   true   SGSEGR   PHOS(1)   1.   673.   −0.765165   5.26388   100.   ?   1698.
    S_Acido_new%gi|68567998|gb|AAY80927.1| SGSEGR%:PHOS::::::%sample_0%cmpd_415
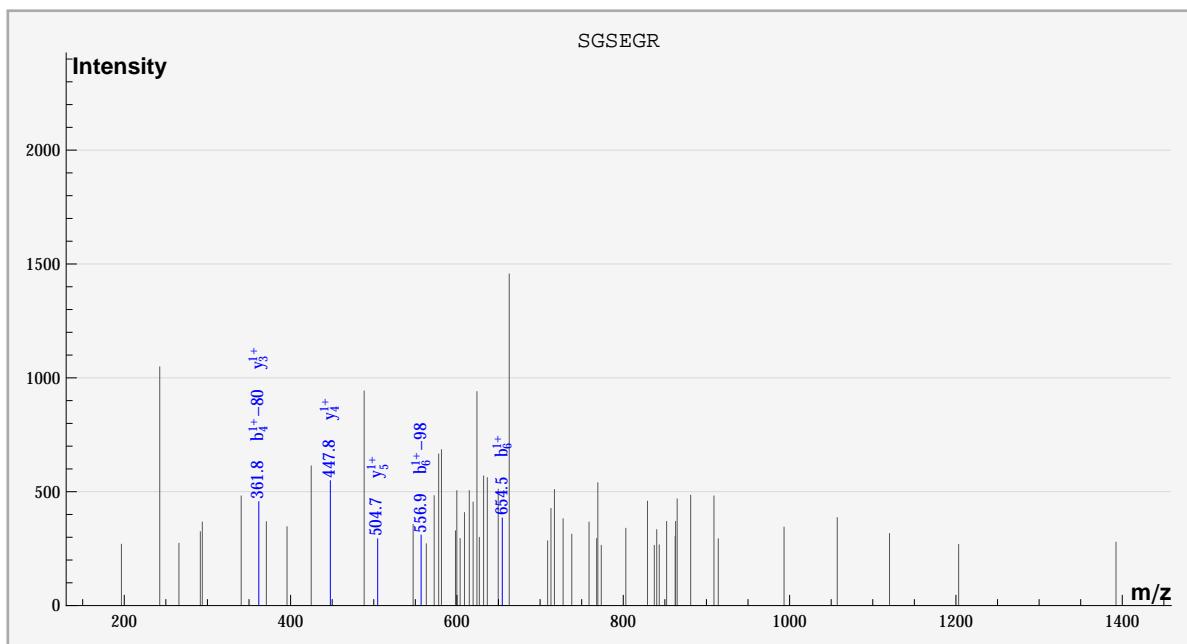
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
S	1							
G	2			5	✓			
S	3			4	✓			
E	4		✓	3	✓			
G	5			2				
R	6	✓	✓	1				
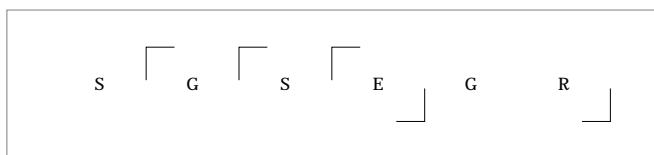
dbValid true QTDAGELSRYK PHOS(1) 2. 673. 1.30064 5.26972 100. ? 2430.
S_Acido_new%gi|68567040|gb|AAY79969.1| QTDAGELSRYK%::PHOS::::::::::%sample_0%cmpd_1033

	♯	b	b*	♯	y	y*	P	P*
Q	1							✓
T	2			10				
D	3	✓	✓	9				
A	4	✓	✓	8				
G	5		✓	7				
E	6	✓	✓	6				
L	7		✓	5				
S	8	✓		4				
R	9			3				
Y	10			2				
K	11			1				
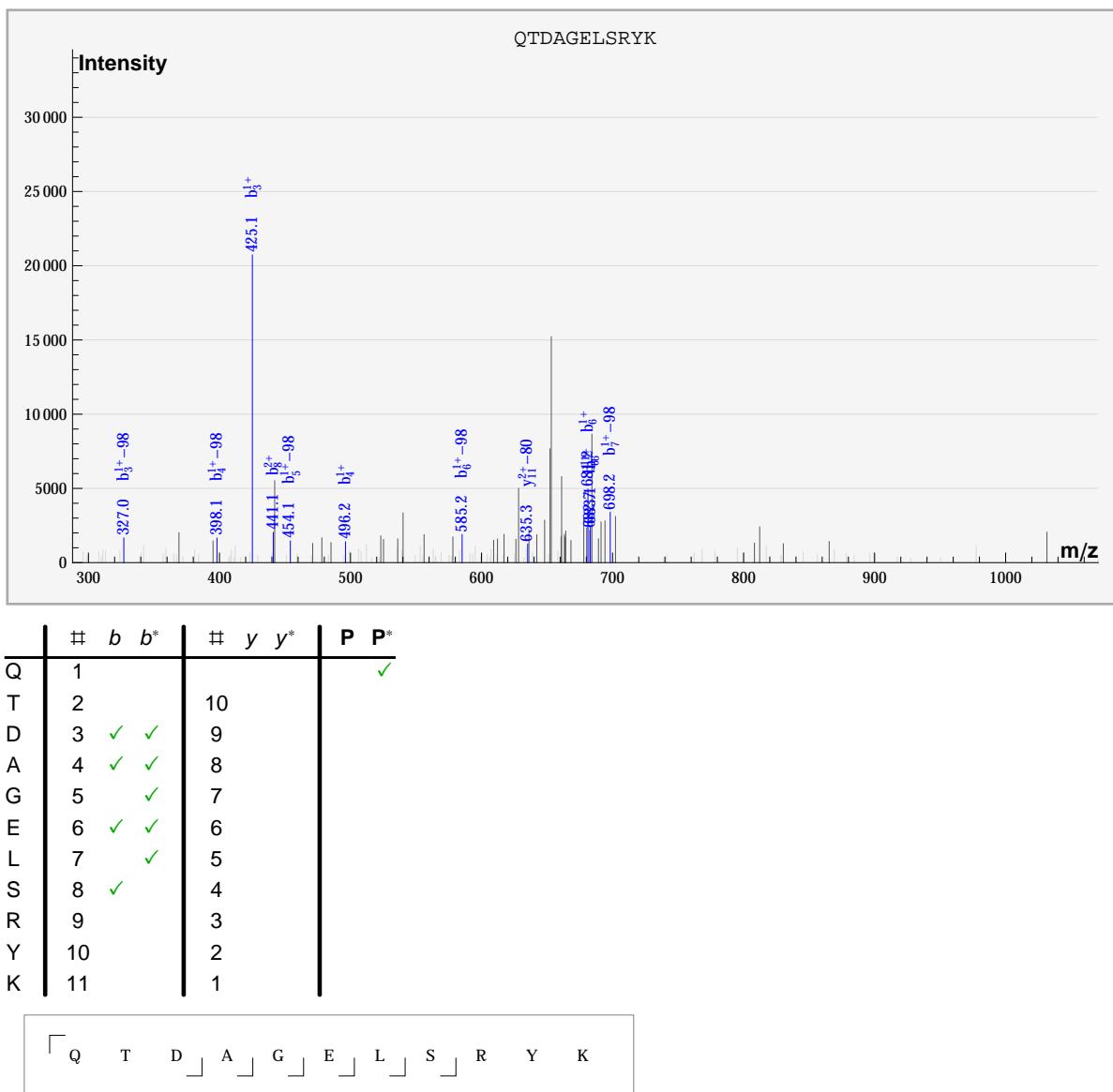
Q T D A G E L S R Y K

dbValid true QTDAGELSRYK PHOS(1) 2. 673. 1.30064 5.5691 100. ? 2454.
  S_Acido_new%gi|68567040|gb|AAY79969.1| QTDAGELSRYK%::PHOS::::::::::%sample_0%cmpd_1053

|	#	b	b*	#	y	y*	P	P*
Q	1							✓
T	2			10				
D	3	✓	✓	9				
A	4	✓		8				
G	5	✓		7				
E	6	✓		6				
L	7		✓	5				
S	8	✓		4		✓		
R	9			3				
Y	10			2				
K	11		✓	1				

dbValid true QTDAGELSRYK PHOS(1) 2. 673. 1.30064 5.47114 100. ? 2466.
   S_Acido_new%gi|68567040|gb|AAY79969.1| QTDAGELSRYK%::PHOS:::::::::::%sample_0%cmpd_1063
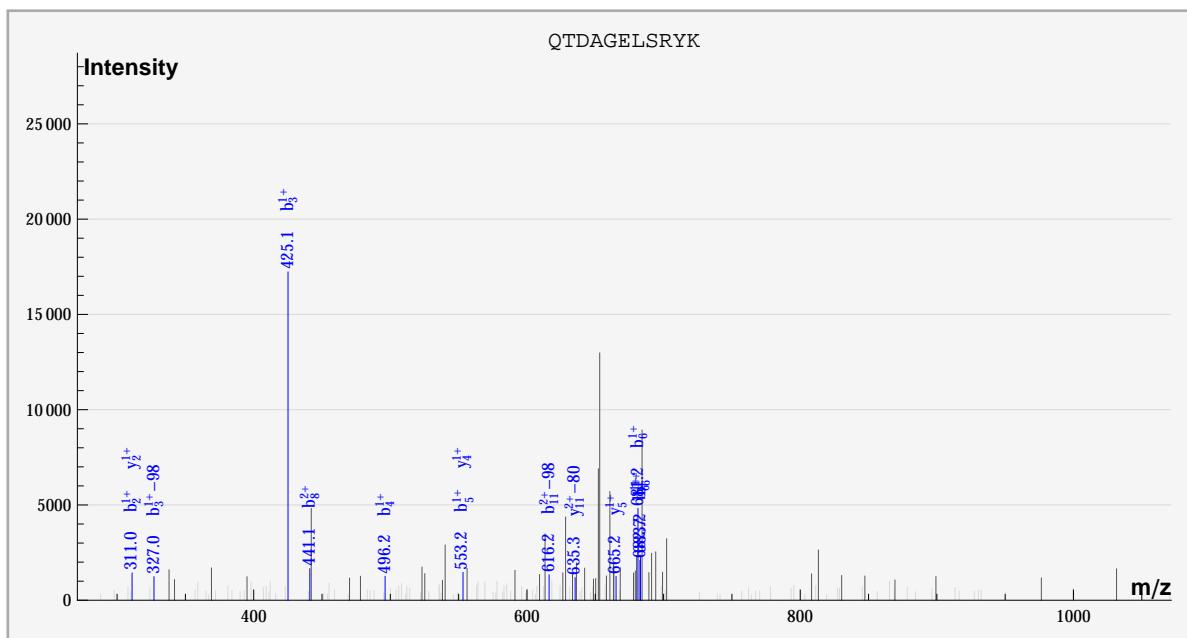
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Q	1							✓
T	2	✓		10				
D	3	✓	✓	9				
A	4	✓		8				
G	5	✓		7				
E	6	✓		6				
L	7			5	✓			
S	8	✓		4	✓			
R	9			3				
Y	10			2	✓			
K	11		✓	1				
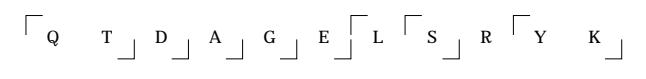
dbValid true QTDAGELSRYK PHOS(1) 2. 673. 1.30064 5.54198 100. ? 2478.
  S_Acido_new%gi|68567040|gb|AAY79969.1| QTDAGELSRYK%::PHOS:::::::::::%sample_0%cmpd_1073
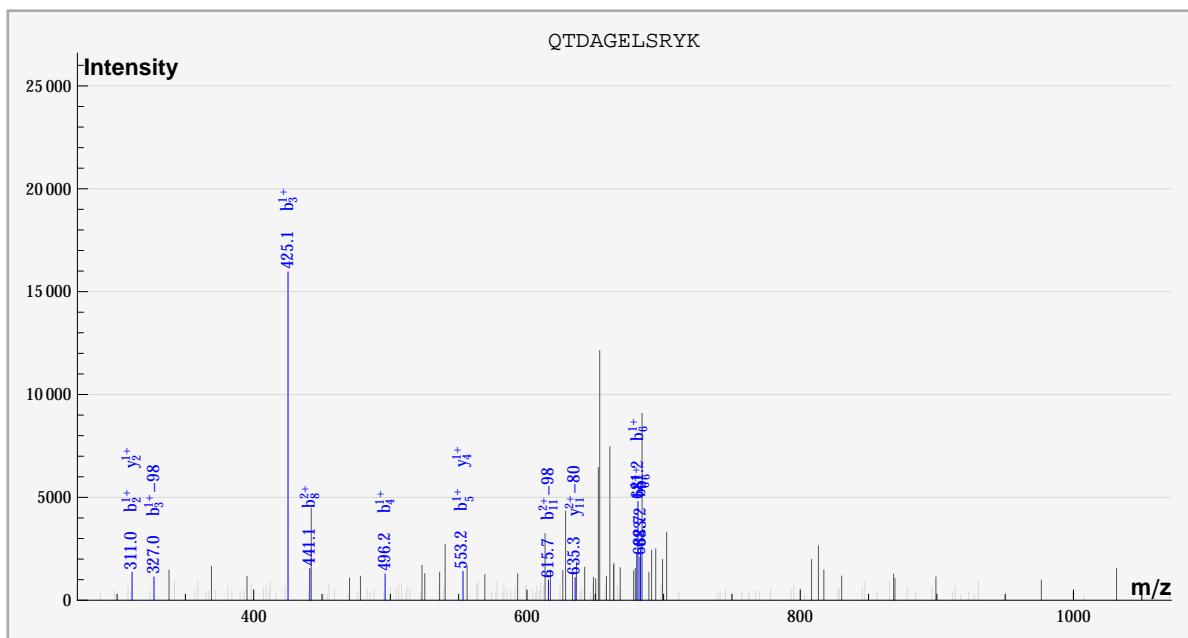
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Q	1							✓
T	2	✓		10				
D	3	✓	✓	9				
A	4	✓		8				
G	5	✓		7				
E	6	✓		6				
L	7			5				
S	8	✓		4		✓		
R	9			3				
Y	10			2		✓		
K	11		✓	1				
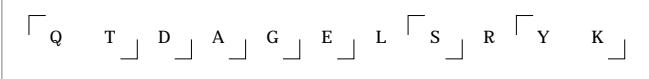
dbValid   true   QTDAGELSRYK   PHOS(1)   2.   673.   1.30064   4.98225   100.   ?   2874.
    S_Acido_new%gi|68567040|gb|AAY79969.1| QTDAGELSRYK%::PHOS:::::::::%sample_0%cmpd_1415
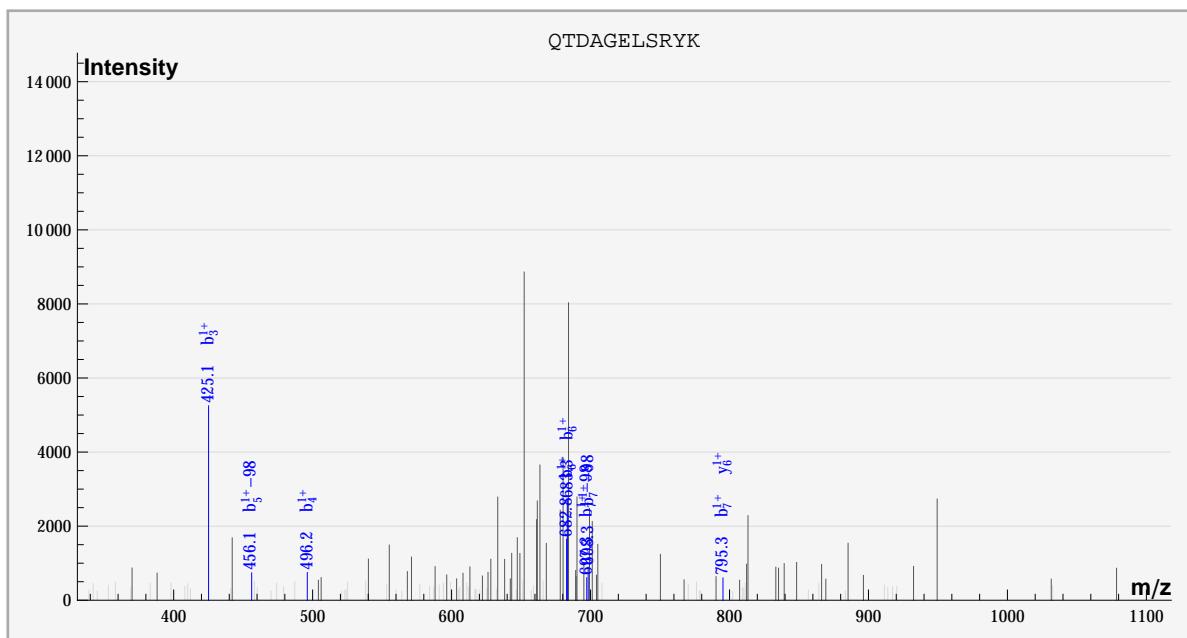

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Q	1							
T	2			10				
D	3	✓		9				
A	4	✓		8				
G	5		✓	7				
E	6	✓		6	✓			
L	7	✓	✓	5				
S	8			4				
R	9			3				
Y	10			2				
K	11			1				

Q   T   D   A   G   E   L   S   R   Y   K

dbValid true ISELGYSEKR PHOS(2) 2. 673. −1.72202 5.06997 100. ? 306.
   S_Acido_new%gi|68566552|gb|AAY79481.1| ISELGYSEKR%::PHOS:::::PHOS::::%sample_0%cmpd_1570

ISELGYSEKR

|	#	b	b*	#	y	y*	P	P*
I	1							✓
S	2			9		✓		
E	3			8				
L	4	✓		7				
G	5	✓		6				
Y	6		✓	5		✓		
S	7	✓	✓	4				
E	8			3	✓			
K	9		✓	2				
R	10	✓		1				
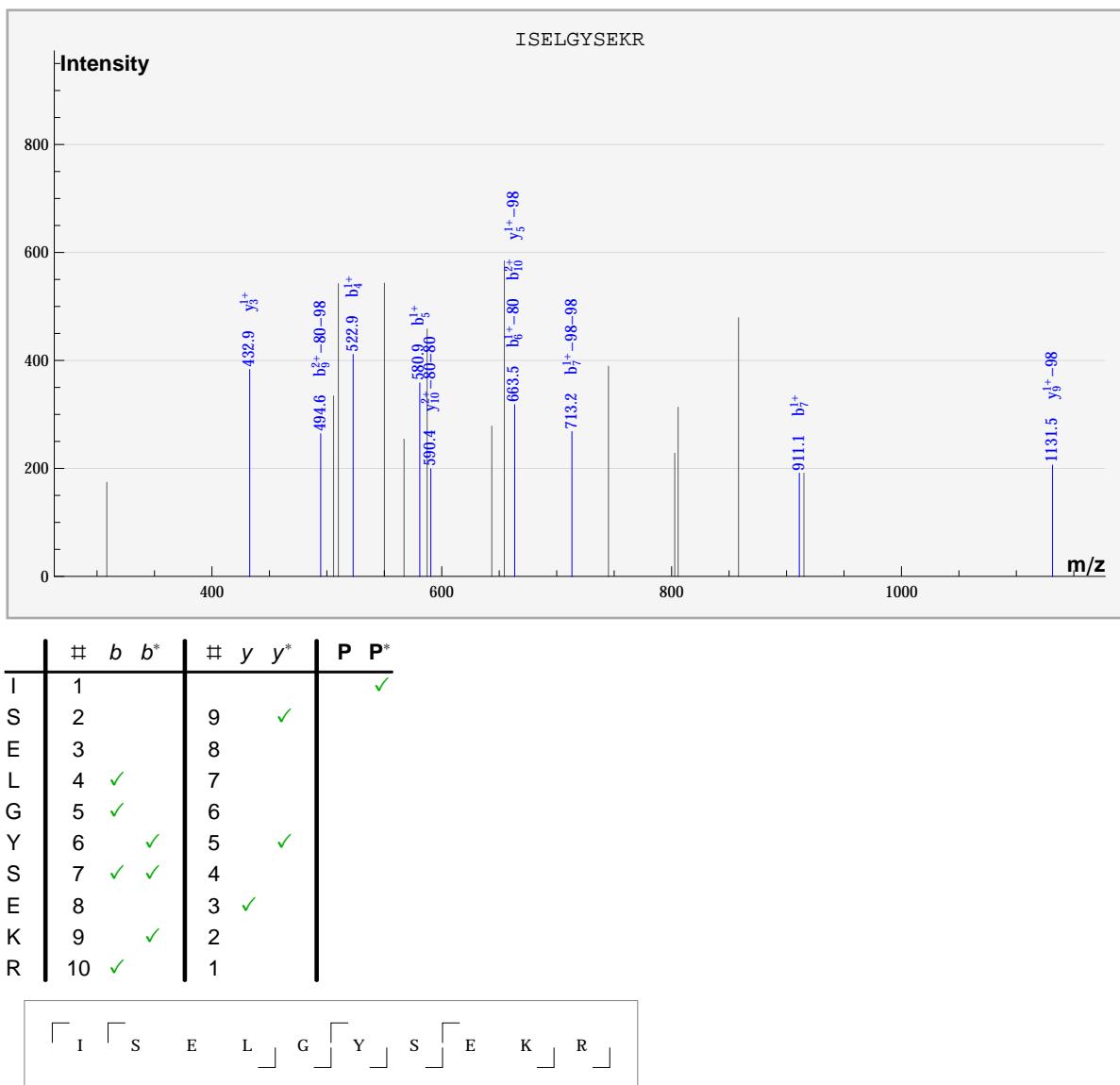
dbValid true YVYYTTPKR PHOS(2) 2. 673.89 1.89016 5.16893 100. ? 3522.
S_Acido_new%gi|68567917|gb|AAY80846.1| YVYYTTPKR%:PHOS:::::PHOS::::%sample_1%cmpd_2301

| ♯	b	b*	♯	y	y*	P	P*
Y	1							✓
V	2			8				
Y	3			7		✓		
Y	4	✓	✓	6	✓	✓		
T	5	✓	✓	5	✓			
T	6	✓	✓	4	✓			
P	7		✓	3				
K	8		✓	2				
R	9	✓	✓	1				
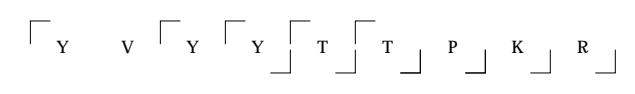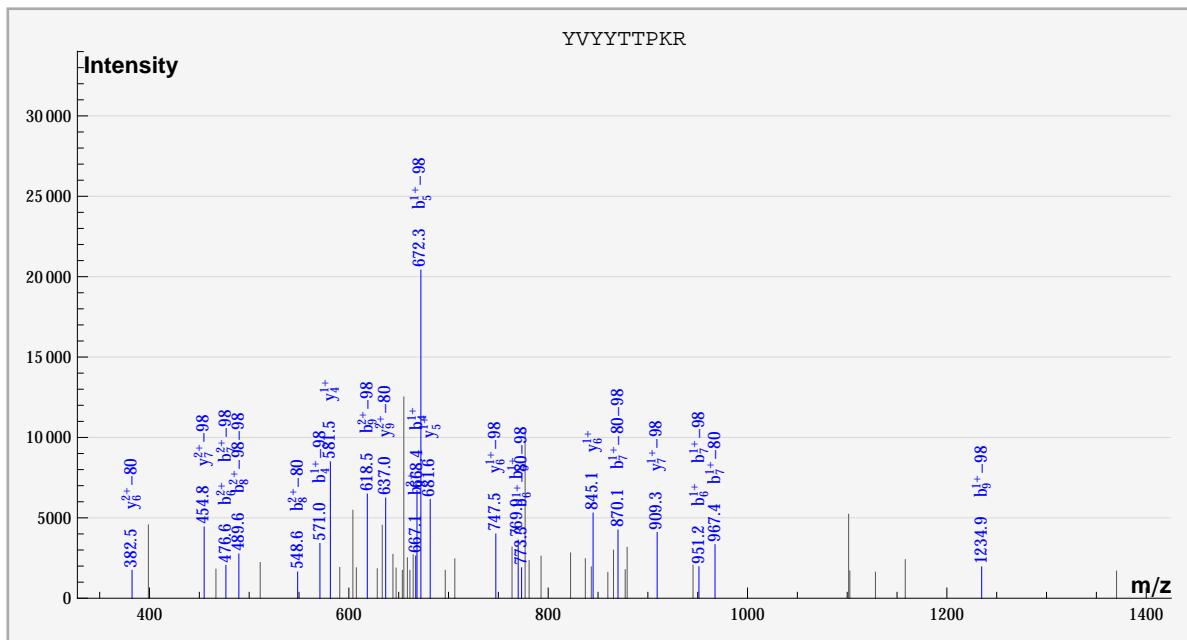
dbValid true WLESKDSVSSK PHOS(1) 2. 674. −0.694608 5.10321 100. ? 1782.
  S_Acido_new%gi|68568547|gb|AAY81476.1| WLESKDSVSSK%::::::::::PHOS::%sample_0%cmpd_467
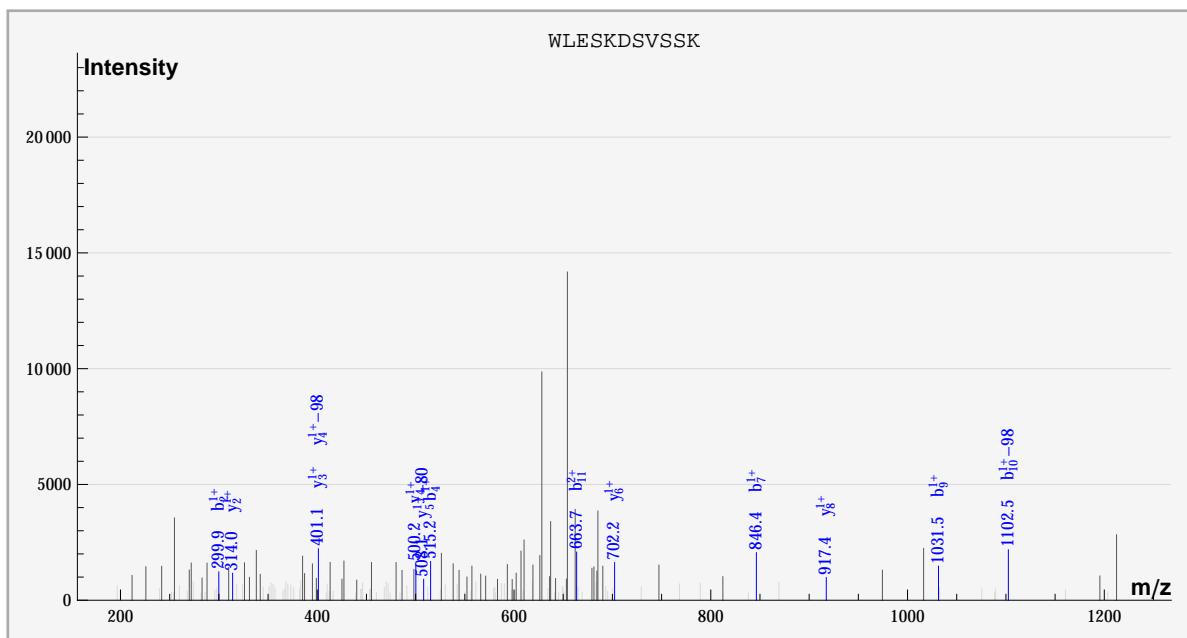
	#	b	b*	#	y	y*	P	P*
W	1			10				
L	2	✓		10				
E	3			9				
S	4	✓		8	✓			
K	5			7				
D	6			6	✓			
S	7	✓		5		✓		
V	8			4	✓	✓		
S	9	✓		3	✓			
S	10		✓	2	✓			
K	11	✓		1				

W L E S K D S V S S K

dbValid true VKMLYSILQGT Oxidation_M(1),PHOS(1) 2. 674. 0.832727 5.05291 100. ? 1848.
S_Acido_new%gi|68567308|gb|AAY80237.1| VKMLYSILQGT%:::Oxidation_M::::::::PHOS:%sample_0%cmpd_549
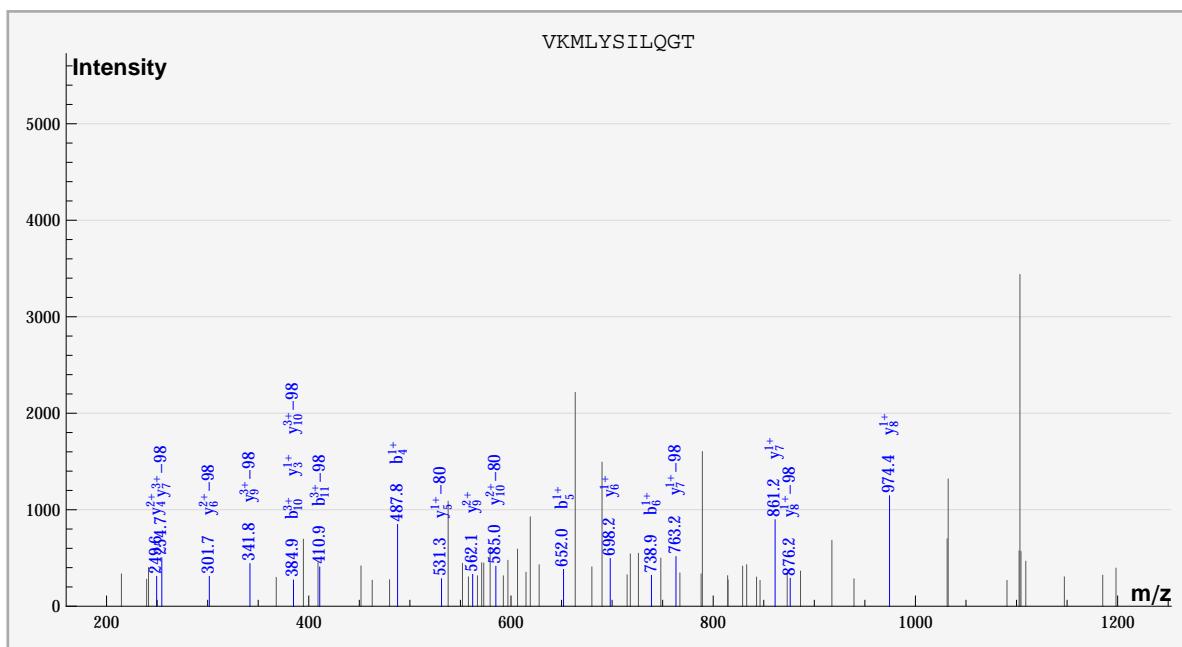
	#	b	b*	#	y	y*	P	P*
V	1							
K	2			10		✓		
M	3			9	✓	✓		
L	4	✓		8	✓	✓		
Y	5	✓		7	✓	✓		
S	6	✓		6	✓	✓		
I	7			5		✓		
L	8			4	✓			
Q	9			3	✓			
G	10	✓		2				
T	11		✓	1				

V K M L Y S I L Q G T

dbValid true KYADMLQIGAR PHOS(1) 2. 674. −0.679678 5.08081 100. ? 3882.
S_Acido_new%gi|68566673|gb|AAY79602.1| KYADMLQIGAR%::PHOS::::::::::%sample_0%cmpd_2407
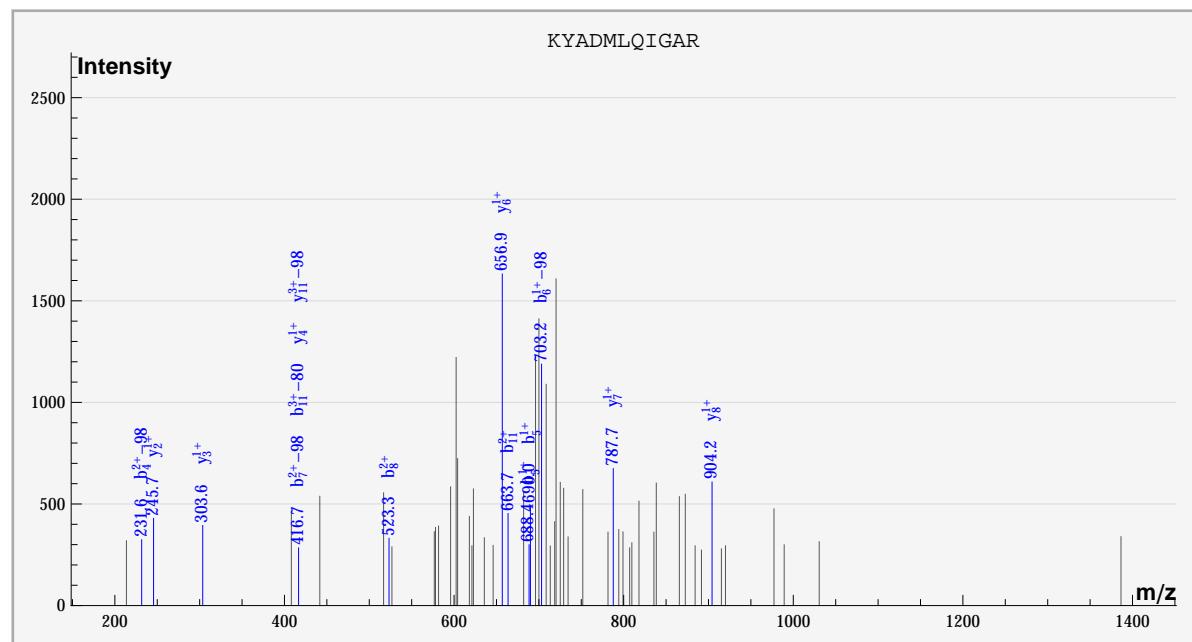
|	#	b	b*	#	y	y*	P	P*
K	1							✓
Y	2			10				
A	3			9				
D	4		✓	8	✓			
M	5	✓		7	✓			
L	6		✓	6	✓			
Q	7		✓	5				
I	8	✓		4	✓			
G	9			3	✓			
A	10			2	✓			
R	11	✓	✓	1				
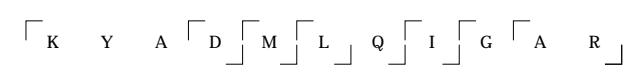
dbValid true VKILIINNSGYEALRSR PHOS(1) 3. 675. 1.03301 4.96686 100. ? 1998.
   S_Acido_new%gi|68568120|gb|AAY81049.1| VKILIINNSGYEALRSR%::::::::::::::::PHOS::%sample_0%cmpd_654

VKILIINNSGYEALRSR

|	♯	b	b*	♯	y	y*	P	P*
V	1			16				
K	2	✓		16				
I	3	✓		15		✓		
L	4			14				
I	5			13				
I	6	✓		12		✓		
N	7			11				
N	8			10				
S	9			9		✓		
G	10			8				
Y	11			7				
E	12			6	✓	✓		
A	13			5	✓			
L	14	✓		4	✓			
R	15			3	✓			
S	16			2	✓			
R	17			1				

V K⌐I⌐L I ⌐I⌐N N ⌐S G Y⌐E ⌐A ⌐L⌐R ⌐S R

dbValid true VKILIINNSGYEALRSR PHOS(1) 3. 675. 1.03301 5.45965 100. ? 2004.
  S_Acido_new%gi|68568120|gb|AAY81049.1| VKILIINNSGYEALRSR%::::::::::::::::PHOS::%sample_0%cmpd_663

VKILIINNSGYEALRSR

	#	b	b*	#	y	y*	P	P*
V	1			16				
K	2	✓		16				
I	3	✓		15		✓		
L	4			14				
I	5			13				
I	6	✓		12		✓		
N	7			11				
N	8			10				
S	9			9		✓		
G	10			8				
Y	11			7	✓			
E	12			6	✓	✓		
A	13			5	✓			
L	14	✓		4	✓			
R	15			3	✓			
S	16			2	✓			
R	17			1				

V K⌐I⌐L I⌐I⌐N N⌐S G⌐Y⌐E⌐A⌐L⌐R⌐S R

dbValid   true   QISISLQGQSK   PHOS(2)   2.   675.   −0.200918   5.28634   100.   ?   2172.
 S_Acido_new%gi|68567692|gb|AAY80621.1| QISISLQGQSK%:::::PHOS:::::PHOS::%sample_0%cmpd_807
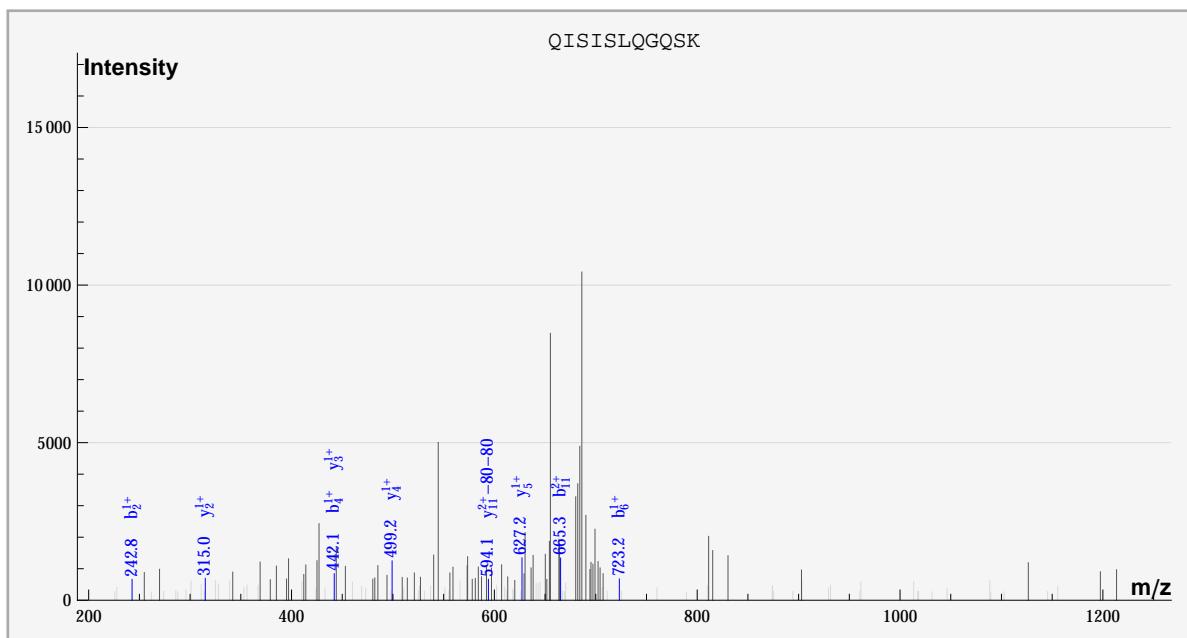
#	b	b*	#	y	y*	P	P*
Q	1						✓
I	2	✓	10				
S	3		9				
I	4	✓	8				
S	5		7				
L	6	✓	6				
Q	7		5	✓			
G	8		4	✓			
Q	9		3	✓			
S	10		2	✓			
K	11	✓	1				

Q   I   S   I   S   L   Q   G   Q   S   K
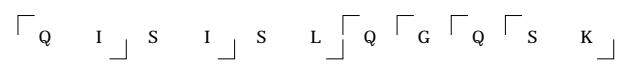
dbValid true TYITADIYAR PHOS(2) 2. 675. −1.22493 5.002 100. ? 2328.
S_Acido_new%gi|68566860|gb|AAY79789.1| TYITADIYAR%:PHOS:PHOS::::::::::%sample_0%cmpd_992
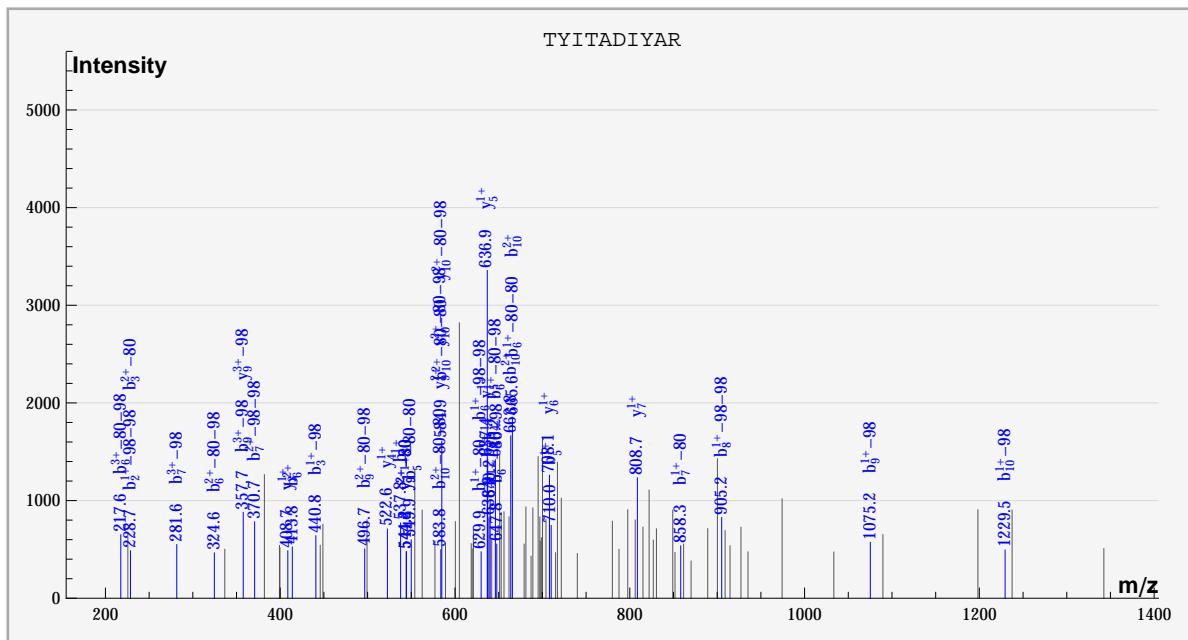

|	#	*b*	*b**	#	*y*	*y**	**P**	**P***
T	1							✓
Y	2		✓	9	✓	✓		
I	3	✓	✓	8				
T	4	✓		7	✓			
A	5	✓	✓	6	✓			
D	6	✓	✓	5	✓			
I	7		✓	4	✓			
Y	8		✓	3	✓			
A	9		✓	2				
R	10	✓	✓	1				
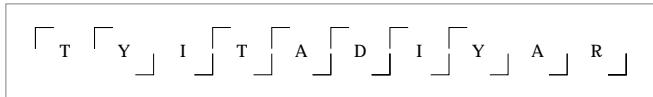
dbValid true EYIYYINSK PHOS(2) 2. 675. 1.76418 5.27179 100. ? 2958.
S_Acido_new%gi|68568065|gb|AAY80994.1| EYIYYINSK%::PHOS::::::PHOS::%sample_0%cmpd_1490
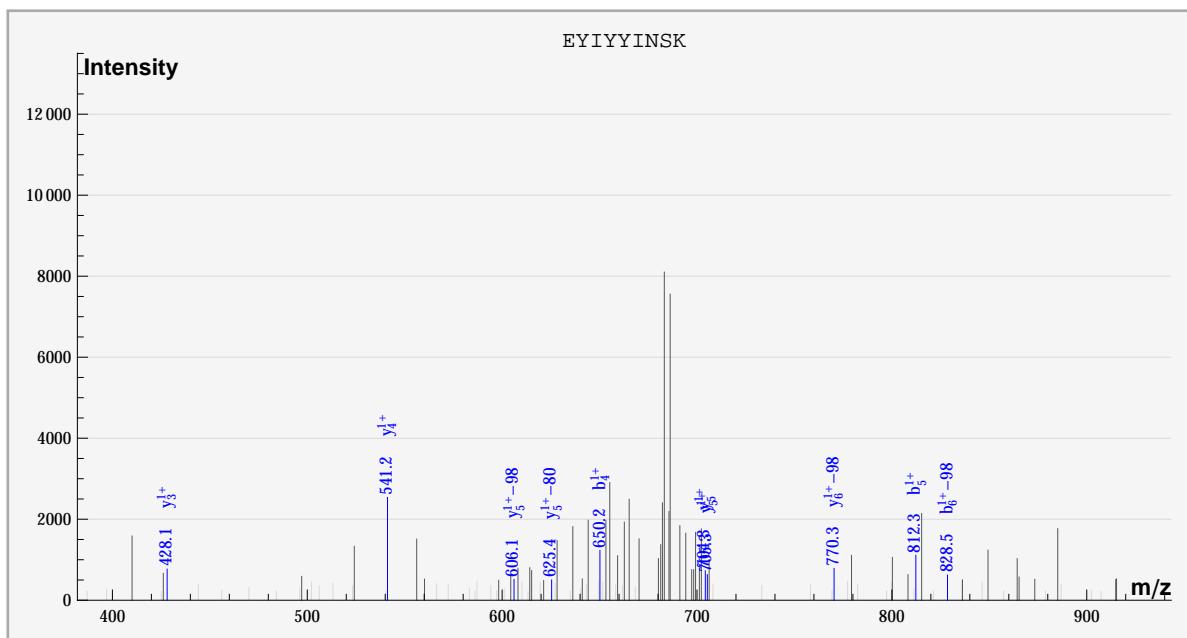
|	#	b	b*		#	y	y*		P	P*
E	1									
Y	2				8					
I	3				7					
Y	4	✓			6		✓			
Y	5	✓			5	✓	✓			
I	6		✓		4	✓				
N	7				3	✓				
S	8				2					
K	9				1					

dbValid true YSTNEDYFAR PHOS(1) 2. 675. −1.74155 5.22676 100. ? 2964.
    S_Acido_new%gi|68567194|gb|AAY80123.1| YSTNEDYFAR%:PHOS::::::::::%sample_2%cmpd_1487

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
Y	1							
S	2			9	✓			
T	3	✓		8	✓			
N	4			7	✓			
E	5			6	✓			
D	6		✓	5	✓			
Y	7		✓	4				
F	8			3				
A	9	✓	✓	2				
R	10	✓		1				
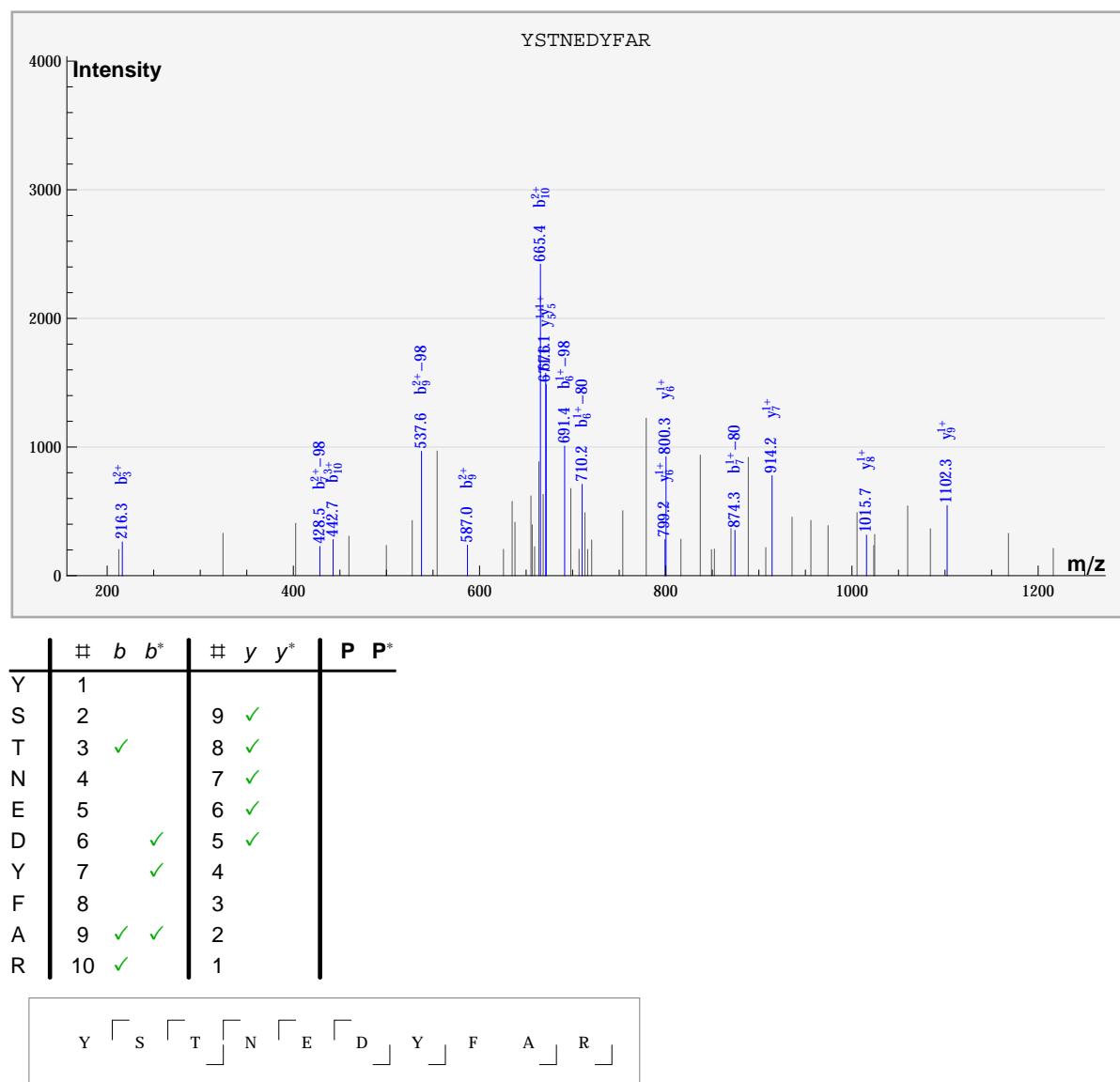
dbValid true LYDFLDSLRK PHOS(1) 2. 676. −0.671333 5.27328 100. ? 1206.
S_Acido_new%gi|68567286|gb|AAY80215.1| LYDFLDSLRK%:::::::PHOS::::%sample_3%cmpd_3718
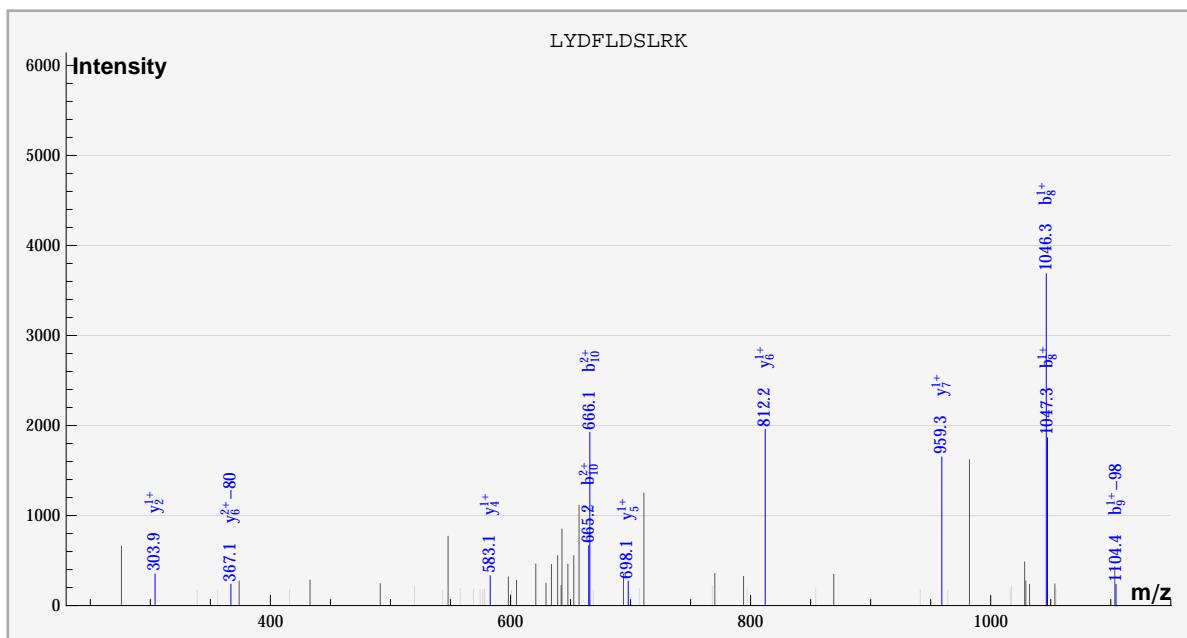
|	#	*b*	*b**	#	*y*	*y**	**P**	**P***
L	1							
Y	2			9				
D	3			8				
F	4			7	✓			
L	5			6	✓	✓		
D	6			5	✓			
S	7			4	✓			
L	8	✓		3				
R	9		✓	2	✓			
K	10	✓		1				
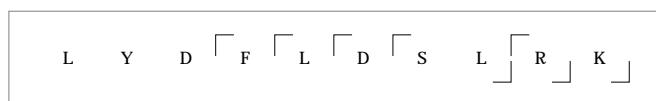
dbValid   true   MDVTVGIPTLGR   Oxidation_M(1),PHOS(1)   2.   676.   1.82543   5.03143   100.   ?   1854.
  S_Acido_new%gi|68568394|gb|AAY81323.1| MDVTVGIPTLGR%:Oxidation_M:::PHOS:::::::::%sample_0%cmpd_533

MDVTVGIPTLGR

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
M	1							✓
D	2			11				
V	3			10				
T	4	✓	✓	9				
V	5		✓	8		✓		
G	6		✓	7				
I	7	✓	✓	6		✓		
P	8		✓	5		✓		
T	9			4		✓		
L	10			3				
G	11			2				
R	12			1				

M   D   V   T   V   G   I   P   T   L   G   R

dbValid true MDVTVGIPTLGR Oxidation_M(1),PHOS(1) 2. 676. 1.82543 5.34518 100. ? 1866.
  S_Acido_new%gi|68568394|gb|AAY81323.1| MDVTVGIPTLGR%:Oxidation_M:::PHOS::::::::::%sample_0%cmpd_544

MDVTVGIPTLGR

|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
M	1							✓
D	2			11				
V	3			10				
T	4	✓	✓	9				
V	5		✓	8	✓			
G	6			7				
I	7	✓	✓	6	✓			
P	8		✓	5	✓			
T	9			4	✓			
L	10			3				
G	11			2				
R	12		✓	1				
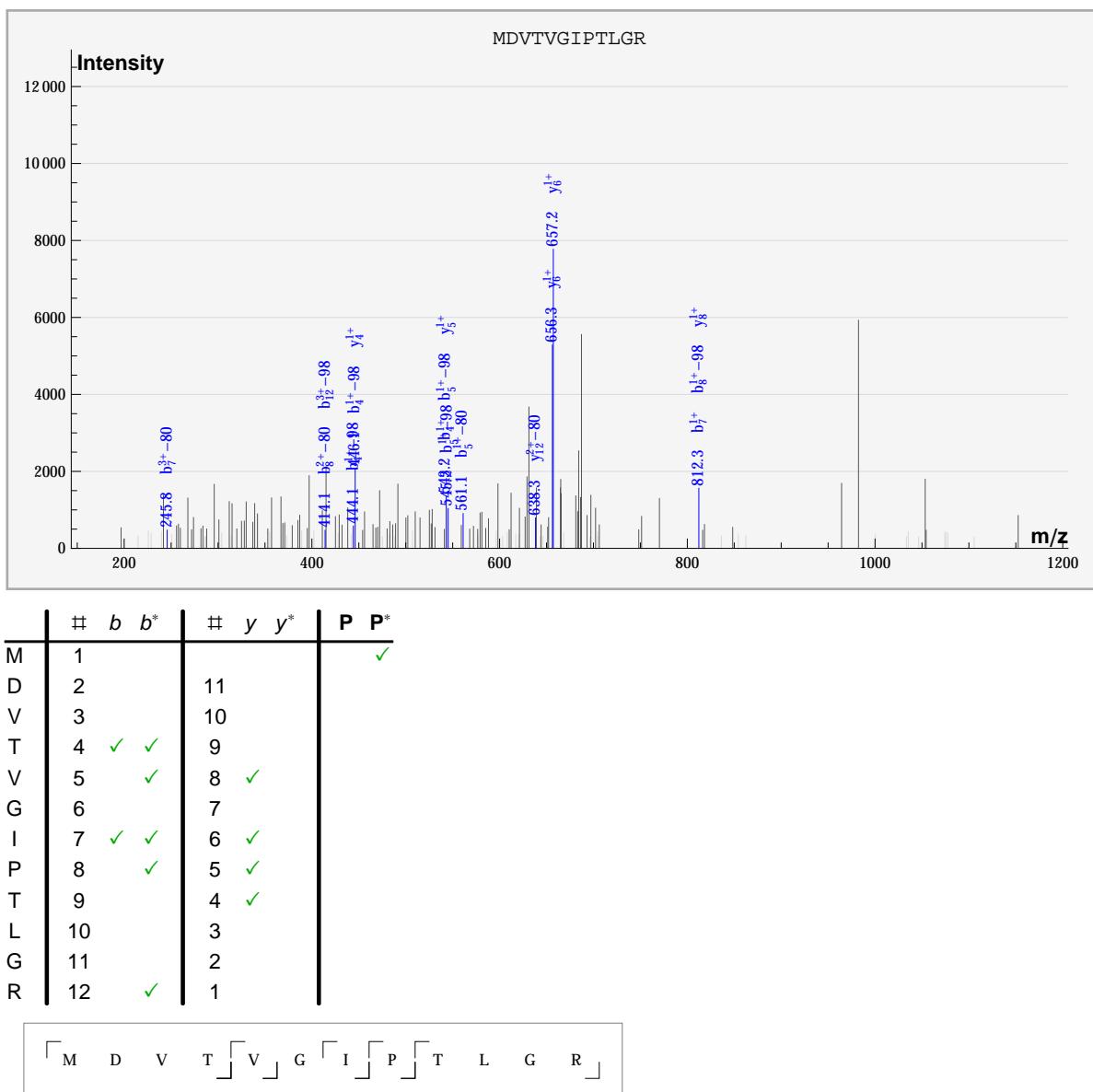
M D V T V G I P T L G R

dbValid true MDVTVGIPTLGR Oxidation_M(1),PHOS(1) 2. 676. 1.82543 5.81232 100. ? 1878.
 S_Acido_new%gi|68568394|gb|AAY81323.1| MDVTVGIPTLGR%:Oxidation_M:::PHOS::::::::%sample_0%cmpd_554

MDVTVGIPTLGR

	#	b	b*	#	y	y*	P	P*
M	1							✓
D	2			11				
V	3			10				
T	4	✓	✓	9				
V	5		✓	8	✓			
G	6			7				
I	7	✓		6	✓			
P	8		✓	5	✓			
T	9			4	✓			
L	10			3				
G	11			2				
R	12		✓	1				
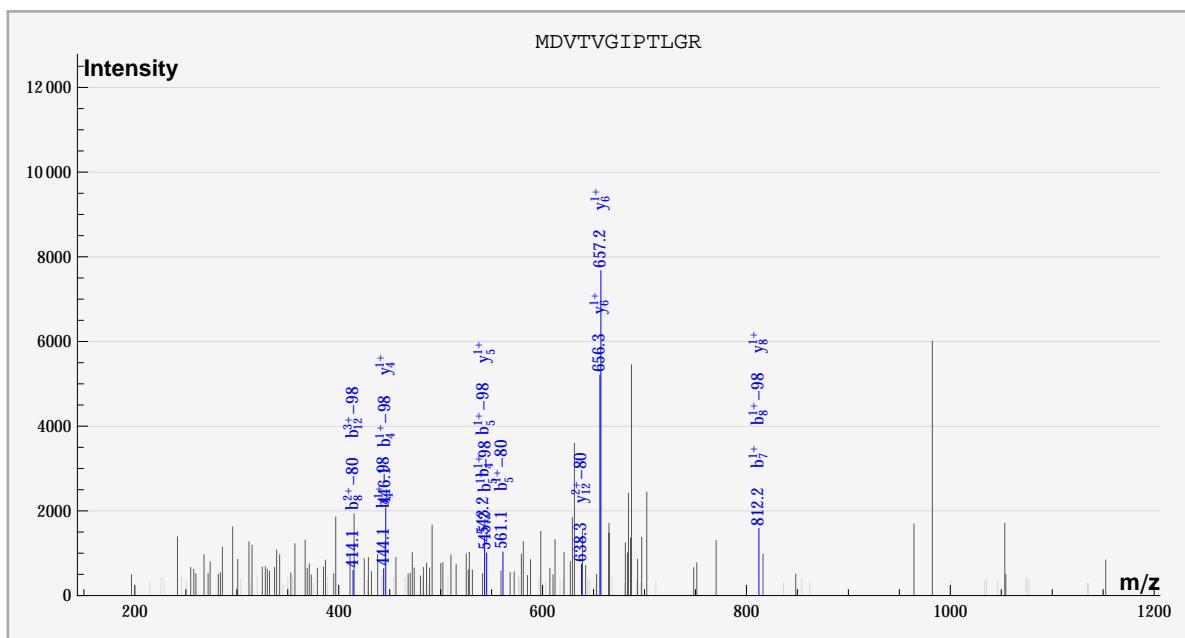
M D V T V G I P T L G R

dbValid   true   MDVTVGIPTLGR   Oxidation_M(1),PHOS(1)   2.   676.   1.82543   5.65584   100.   ?   1890.
S_Acido_new%gi|68568394|gb|AAY81323.1| MDVTVGIPTLGR%:Oxidation_M:::PHOS::::::::::%sample_0%cmpd_564

	♯	b	b*	♯	y	y*	P	P*
M	1							✓
D	2			11				
V	3			10				
T	4	✓	✓	9				
V	5		✓	8	✓			
G	6	✓		7				
I	7	✓		6	✓			
P	8		✓	5	✓			
T	9			4	✓			
L	10			3				
G	11			2				
R	12		✓	1				

M   D   V   T   V   G   I   P   T   L   G   R
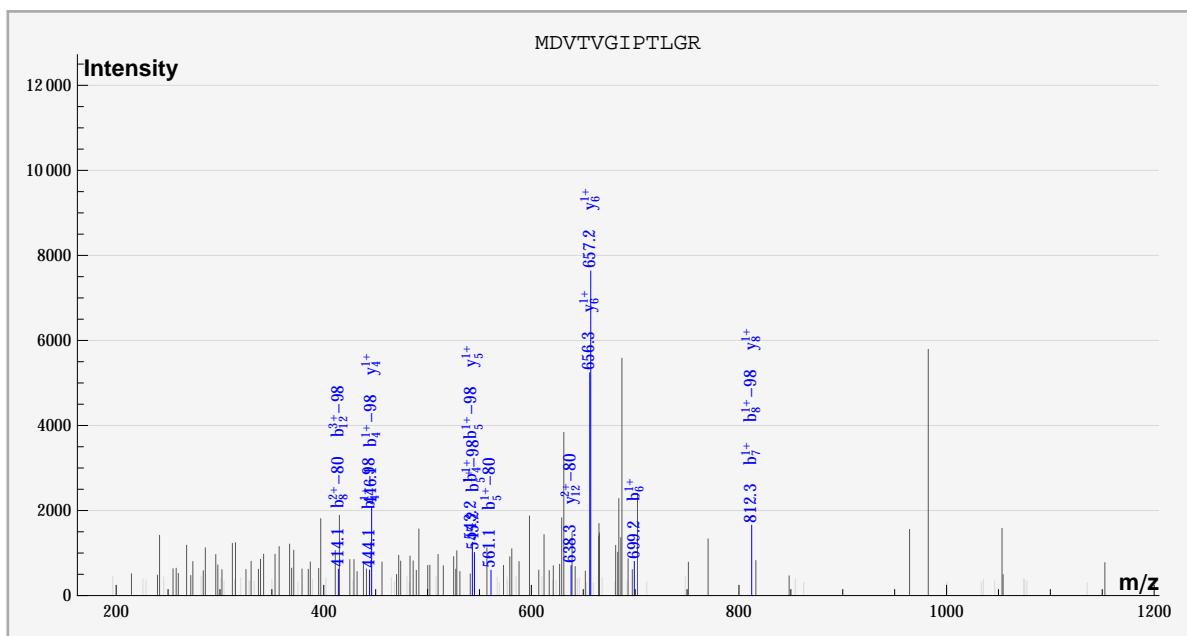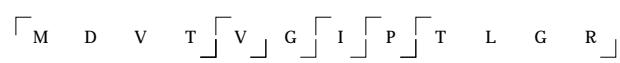
dbValid true EKYWGEEGFK PHOS(1) 2. 676. 0.781547 4.93329 100. ? 2226.
  S_Acido_new%gi|68566861|gb|AAY79790.1| EKYWGEEGFK%:::PHOS::::::::%sample_2%cmpd_857

	♯	b	b*	♯	y	y*	P	P*
E	1							
K	2			9	✓			
Y	3			8				
W	4		✓	7				
G	5		✓	6	✓			
E	6			5	✓			
E	7			4				
G	8			3	✓			
F	9			2	✓			
K	10	✓		1				

E   K   Y   W   G   E   E   G   F   K

dbValid true MDVTVGIPTLGR Oxidation_M(1),PHOS(1) 2. 676. 1.82543 5.25512 100. ? 2514.
  S_Acido_new%gi|68568394|gb|AAY81323.1| MDVTVGIPTLGR%:Oxidation_M:::PHOS::::::::::%sample_0%cmpd_1106

	#	b	b*	#	y	y*	P	P*
M	1							
D	2			11				
V	3			10				
T	4	✓	✓	9				
V	5	✓	✓	8		✓		
G	6	✓		7				
I	7	✓		6		✓		
P	8		✓	5		✓		
T	9			4		✓		
L	10			3				
G	11			2				
R	12		✓	1				

M   D   V   T   V   G   I   P   T   L   G   R

dbValid true SINVELDLDTR PHOS(1) 2. 676. 1.81612 5.17309 100. ? 2550.
  S_Acido_new%gi|68568434|gb|AAY81363.1| SINVELDLDTR%::::::::::PHOS::%sample_0%cmpd_1139

SINVELDLDTR

♯	b	b*	♯	y	y*	P	P*
S	1							✓
I	2			10				
N	3			9				
V	4	✓		8				
E	5	✓		7				
L	6	✓		6	✓			
D	7			5	✓	✓		
L	8			4				
D	9			3		✓		
T	10			2	✓			
R	11			1				

S I N V E L D L D T R
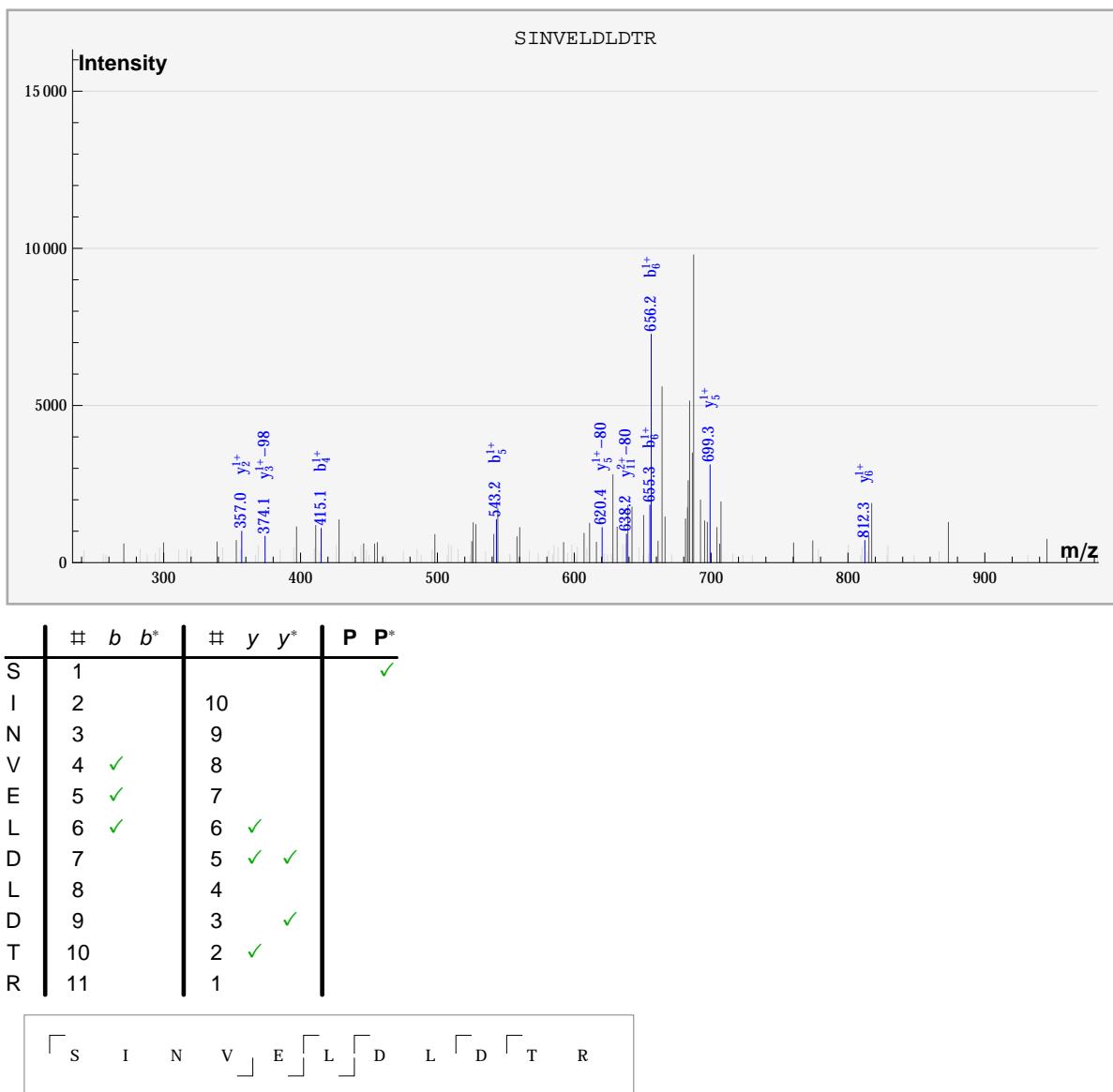
dbValid true EYIYYINSK PHOS(2) 2. 676. 0.764177 5.23476 100. ? 2874.
S_Acido_new%gi|68568065|gb|AAY80994.1| EYIYYINSK%::PHOS::::::PHOS::%sample_0%cmpd_1418
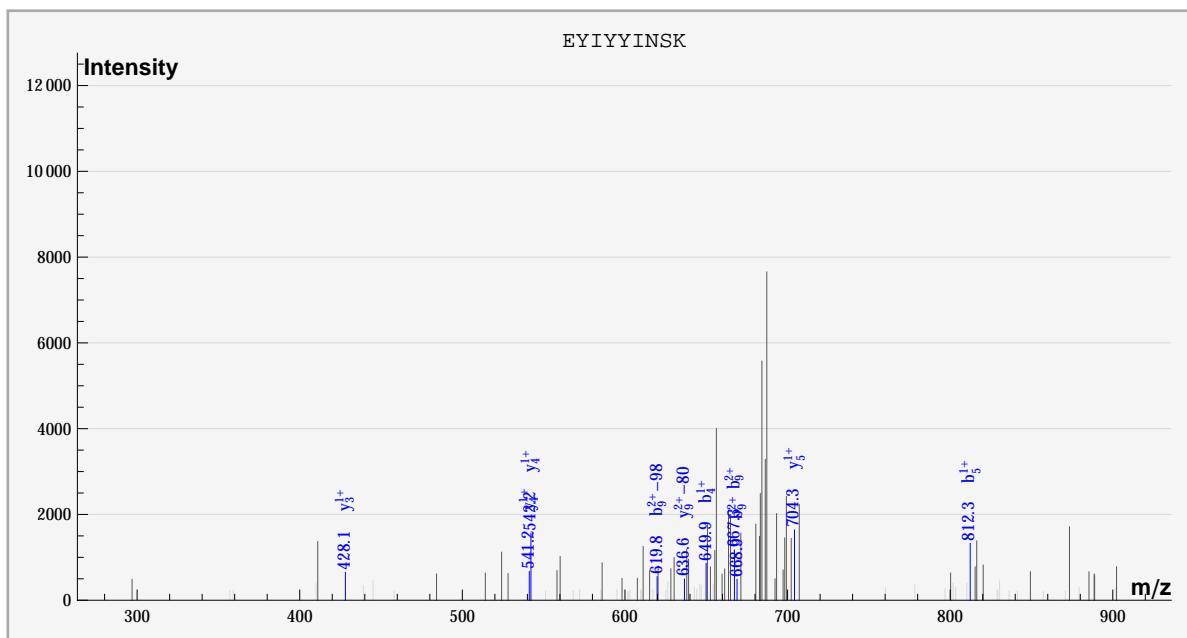
♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2			8			
I	3			7			
Y	4	✓		6			
Y	5	✓		5	✓		
I	6			4	✓		
N	7			3	✓		
S	8			2			
K	9	✓	✓	1			
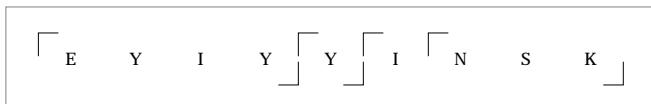
dbValid true EYIYYINSK PHOS(2) 2. 676. 0.764177 5.39352 100. ? 2910.
  S_Acido_new%gi|68568065|gb|AAY80994.1| EYIYYINSK%::PHOS::::::PHOS::%sample_0%cmpd_1451
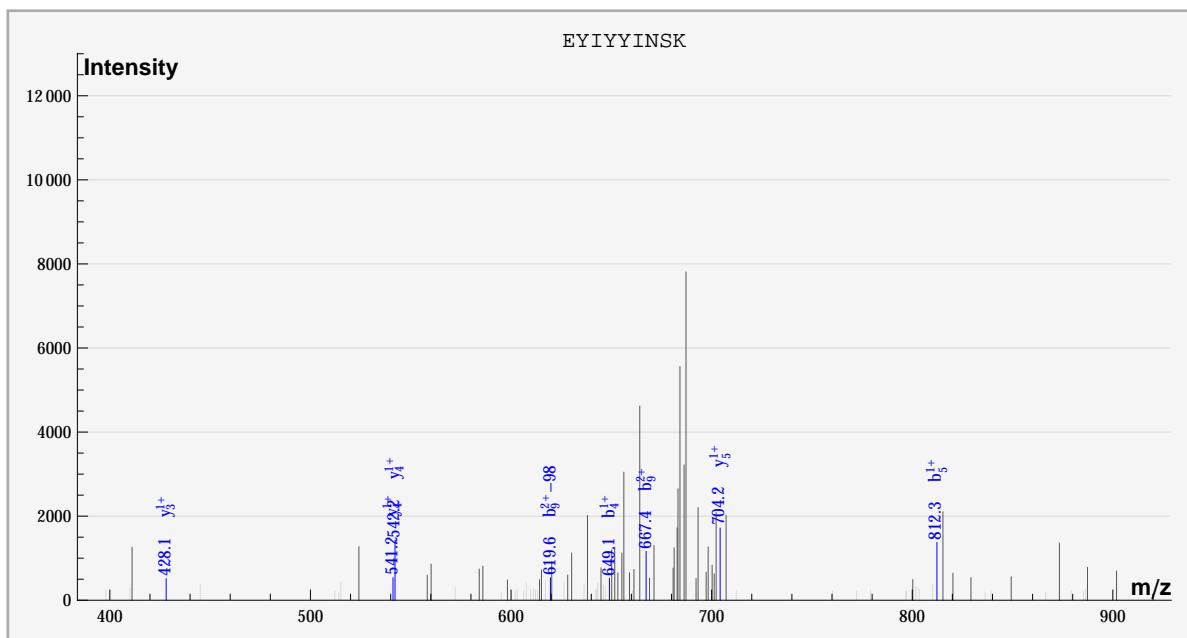
	♯	b	b*	♯	y	y*	P	P*
E	1							
Y	2			8				
I	3			7				
Y	4	✓		6				
Y	5	✓		5		✓		
I	6			4		✓		
N	7			3		✓		
S	8			2				
K	9	✓	✓	1				
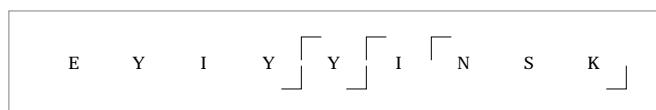
dbValid true WREYTAYER PHOS(1) 2. 676. 1.2848 4.95303 100. ? 3432.
S_Acido_new%gi|68568077|gb|AAY81006.1| WREYTAYER%:::::::PHOS:::%sample_0%cmpd_2000
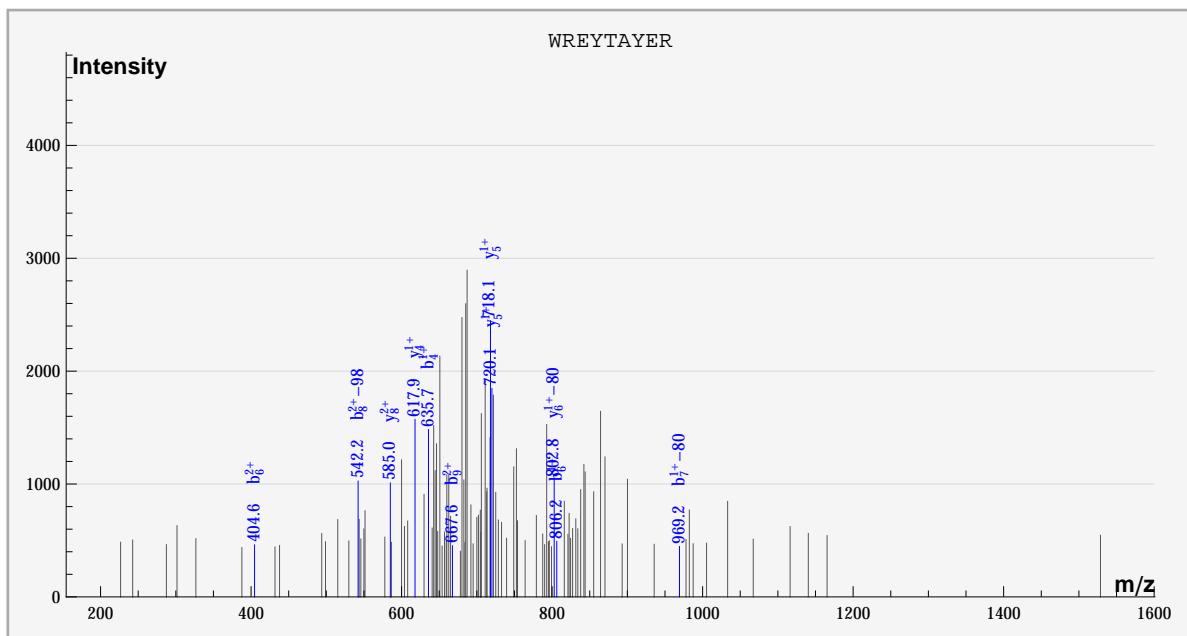
WREYTAYER

	♯	b	b*		♯	y	y*		P	P*
W	1									
R	2				8	✓				
E	3				7					
Y	4	✓			6		✓			
T	5				5	✓				
A	6	✓			4	✓				
Y	7		✓		3					
E	8		✓		2					
R	9	✓			1					

dbValid true RISGDLGSLLDK PHOS(1) 2. 676. 1.3423 5.0679 100. ? 3828.
 S_Acido_new%gi|68567115|gb|AAY80044.1| RISGDLGSLLDK%::::::::PHOS:::::%sample_0%cmpd_2224

	#	b	b*	#	y	y*	P	P*
R	1						✓	
I	2			11	✓			
S	3	✓		10	✓			
G	4			9				
D	5			8		✓		
L	6			7	✓	✓		
G	7			6	✓	✓		
S	8		✓	5	✓			
L	9			4				
L	10			3				
D	11			2				
K	12			1				

R I S G D L G S L L D K

dbValid true EKYWGEEGFK PHOS(1) 2. 677. −0.218453 4.93126 100. ? 1494.
S_Acido_new%gi|68566861|gb|AAY79790.1| EKYWGEEGFK%:::PHOS::::::::%sample_0%cmpd_234

	#	b	b*	#	y	y*	P	P*
E	1							
K	2			9				
Y	3		✓	8				
W	4		✓	7				
G	5		✓	6	✓			
E	6			5	✓			
E	7			4	✓			
G	8		✓	3	✓			
F	9	✓	✓	2				
K	10			1				

dbValid true RIAFTTLWLR PHOS(1) 2. 677. 1.86301 4.97886 100. ? 1908.
  S_Acido_new%gi|68568658|gb|AAY81587.1| RIAFTTLWLR%::::::PHOS:::::%sample_0%cmpd_607

RIAFTTLWLR
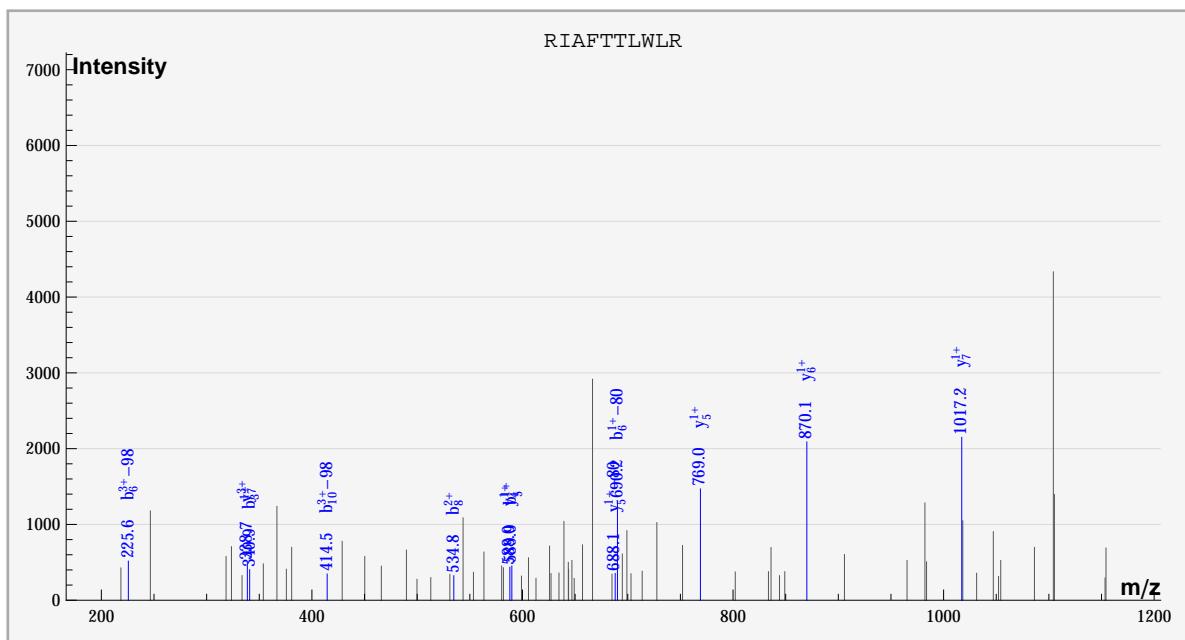
♯	b	b*	♯	y	y*	P	P*
R	1							
I	2			9				
A	3	✓		8				
F	4			7	✓			
T	5	✓		6	✓			
T	6		✓	5	✓	✓		
L	7			4	✓			
W	8	✓		3				
L	9			2				
R	10		✓	1				

R   I   A   F   T   T   L   W   L   R
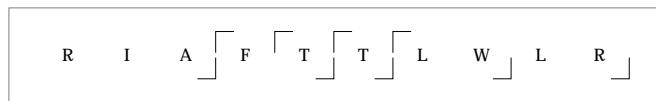
dbValid true MSIIGAPRSSR Oxidation_M(1),PHOS(2) 2. 677. −1.21456 5.02799 100. ? 2394.
   S_Acido_new%gi|68568073|gb|AAY81002.1| MSIIGAPRSSR%:Oxidation_M:PHOS:::::::PHOS:::%sample_0%cmpd_1003
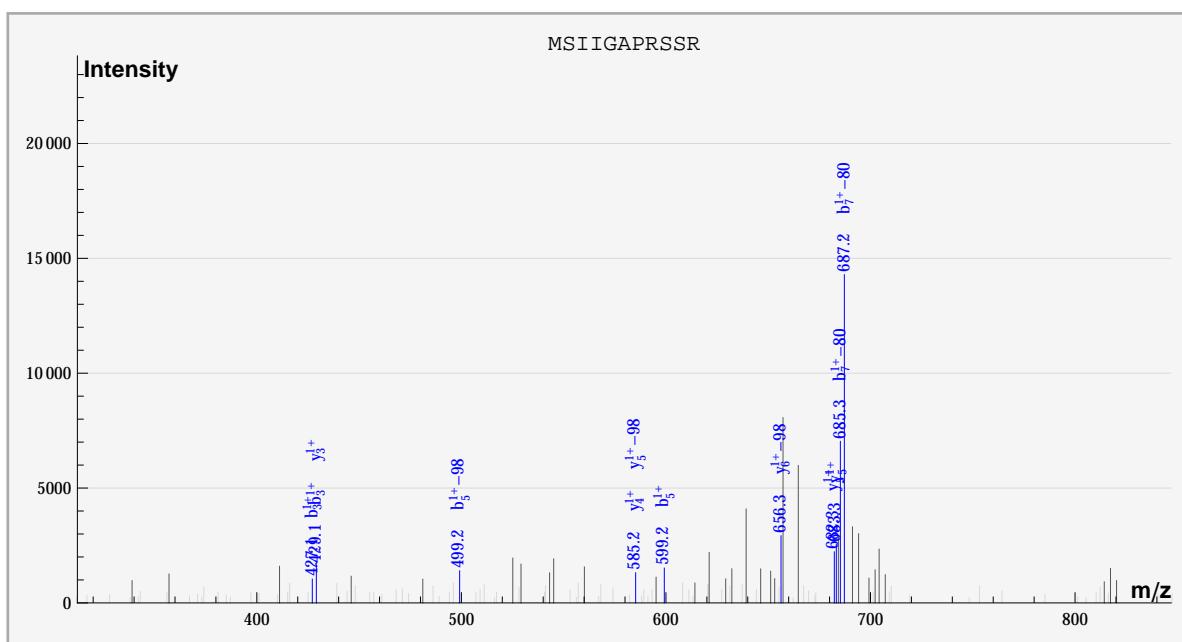
#	b	b*	#	y	y*	P	P*
M	1						
S	2		10				
I	3	✓	9				
I	4		8				
G	5	✓	✓	7				
A	6		6		✓		
P	7		✓	5	✓	✓		
R	8		4	✓			
S	9		3	✓			
S	10		2				
R	11		1				

dbValid true NSQQSIGQSISK PHOS(1) 2. 677. 1.81138 5.18948 100. ? 2706.
  S_Acido_new%gi|68568657|gb|AAY81586.1| NSQQSIGQSISK%::::::::::PHOS::::%sample_0%cmpd_1337

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
N	1						✓	✓
S	2			11	✓			
Q	3	✓		10				
Q	4	✓		9				
S	5			8		✓		
I	6	✓		7		✓		
G	7	✓		6	✓	✓		
Q	8	✓		5	✓			
S	9	✓	✓	4	✓			
I	10			3	✓			
S	11	✓	✓	2				
K	12		✓	1				

N S Q Q S I G Q S I S K

dbValid   true   SNDIGIVPLVSR   PHOS(1)   2.   677.   −1.65515   5.00826   100.   ?   2790.
  S_Acido_new%gi|68568558|gb|AAY81487.1| SNDIGIVPLVSR%:PHOS::::::::::::%sample_0%cmpd_1414

♯	b	b*	♯	y	y*	P	P*
S	1							✓
N	2			11	✓		
D	3	✓		10	✓		
I	4	✓	✓	9	✓		
G	5	✓	✓	8	✓		
I	6	✓	✓	7	✓		
V	7	✓		6	✓		
P	8		✓	5	✓		
L	9		✓	4			
V	10	✓		3			
S	11			2			
R	12		✓	1			

S   N   D   I   G   I   V   P   L   V   S   R

dbValid true SNDIGIVPLVSR PHOS(1) 2. 677. −1.65515 6.25178 100. ? 2802.
   S_Acido_new%gi|68568558|gb|AAY81487.1| SNDIGIVPLVSR%:PHOS:::::::::::%sample_0%cmpd_1426

	#	b	b*	#	y	y*	P	P*
S	1							
N	2			11				
D	3	✓		10				
I	4	✓	✓	9	✓			
G	5	✓		8	✓			
I	6	✓	✓	7	✓			
V	7	✓	✓	6	✓			
P	8		✓	5	✓			
L	9		✓	4				
V	10	✓	✓	3				
S	11			2				
R	12			1				

S   N   D⌐I⌐G⌐I⌐V⌐P⌐L⌐V⌐S   R

dbValid true SNDIGIVPLVSR PHOS(1) 2. 677. −1.65515 6.38927 100. ? 2814.
  S_Acido_new%gi|68568558|gb|AAY81487.1| SNDIGIVPLVSR%:PHOS:::::::::::%sample_0%cmpd_1436

	♯	b	b*	♯	y	y*	P	P*
S	1							
N	2			11				
D	3	✓		10				
I	4		✓	9	✓			
G	5	✓		8	✓			
I	6	✓	✓	7	✓			
V	7	✓	✓	6	✓			
P	8		✓	5	✓			
L	9		✓	4				
V	10			3				
S	11			2				
R	12			1				
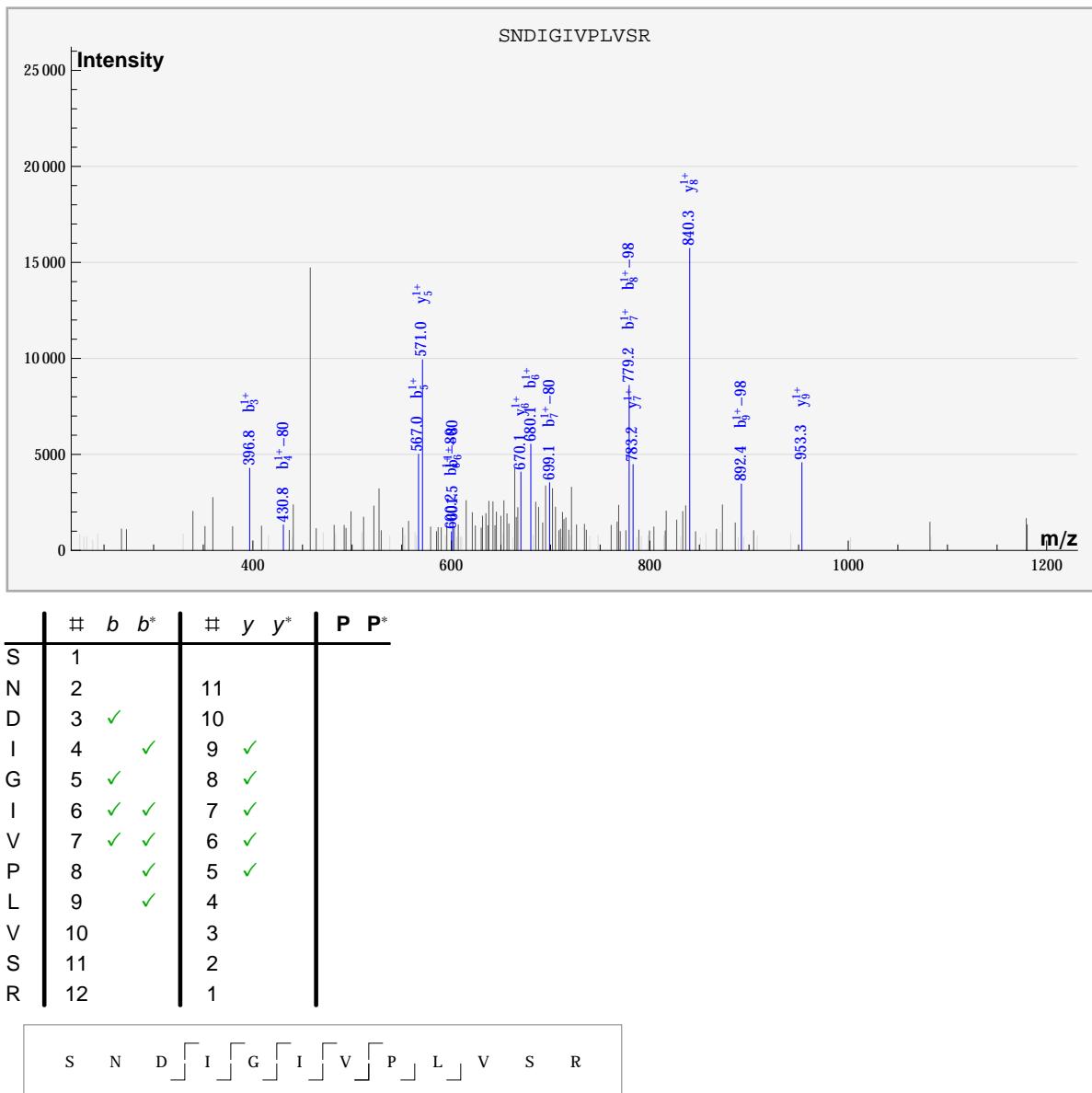
dbValid true IIEKSGSEGRAK PHOS(1) 2. 677. 0.839927 5.582 100. ? 2922.
S_Acido_new%gi|68567998|gb|AAY80927.1| IIEKSGSEGRAK%:::::PHOS::::::::%sample_0%cmpd_1536
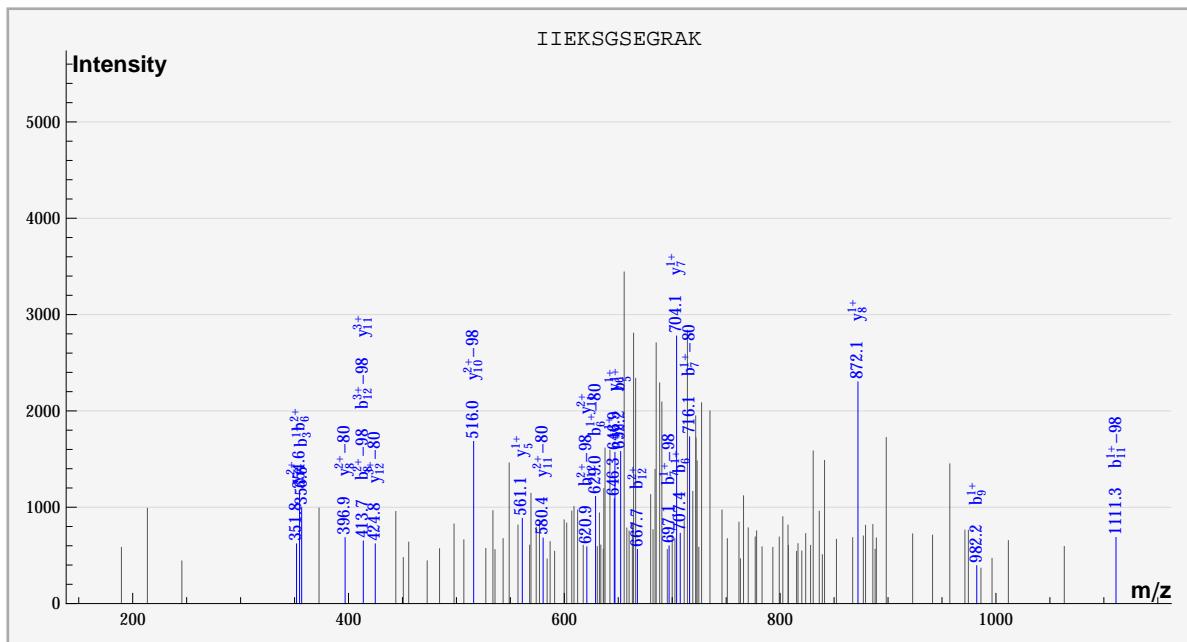
	#	b	b*	#	y	y*	P	P*
I	1							✓
I	2			11	✓	✓		
E	3	✓		10		✓		
K	4			9				
S	5	✓		8	✓	✓		
G	6	✓	✓	7	✓			
S	7		✓	6	✓			
E	8		✓	5	✓			
G	9	✓		4				
R	10			3				
A	11		✓	2				
K	12	✓	✓	1				

┌I ┌I ┌E┘ K ┌S┐ G┐ S┐ E┘ G┘ R A┘ K┘

dbValid true HPMSYGYTR PHOS(3) 2. 677. −0.797433 5.20917 100. ? 3684.
S_Acido_new%gi|68567947|gb|AAY80876.1| HPMSYGYTR%:::::PHOS::PHOS:PHOS::%sample_0%cmpd_2234
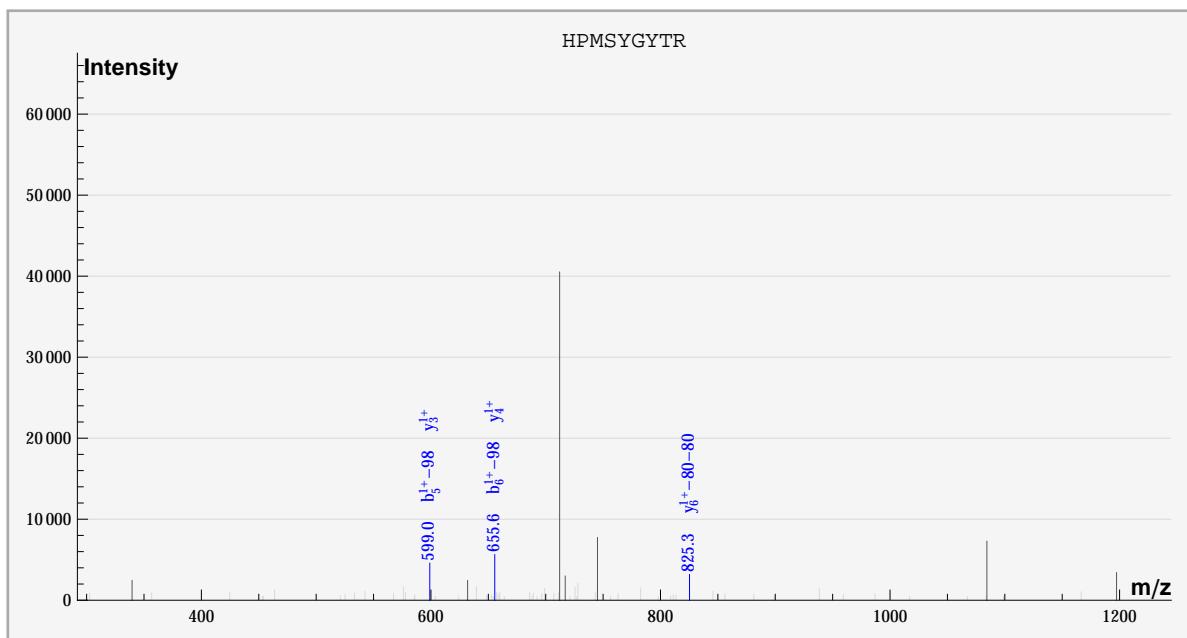
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
H	1							
P	2			8				
M	3			7				
S	4			6		✓		
Y	5		✓	5				
G	6		✓	4	✓			
Y	7			3	✓			
T	8			2				
R	9			1				

dbValid true RISGDLGSLLDK PHOS(1) 2. 678. −0.657698 5.08761 100. ? 1764.
S_Acido_new%gi|68567115|gb|AAY80044.1| RISGDLGSLLDK%::::::::PHOS:::::%sample_0%cmpd_476

	#	b	b*	#	y	y*	P	P*
R	1							✓
I	2			11	✓			
S	3			10				
G	4			9				
D	5			8		✓		
L	6	✓		7				
G	7	✓		6		✓		
S	8	✓	✓	5	✓			
L	9	✓		4	✓			
L	10		✓	3	✓			
D	11			2	✓			
K	12	✓		1				

dbValid   true   KSSILTEEER   PHOS(2)   2.   678.   −1.71928   5.03704   100.   ?   1848.
   S_Acido_new%gi|68566702|gb|AAY79631.1| KSSILTEEER%::PHOS:PHOS:::::::%sample_0%cmpd_553
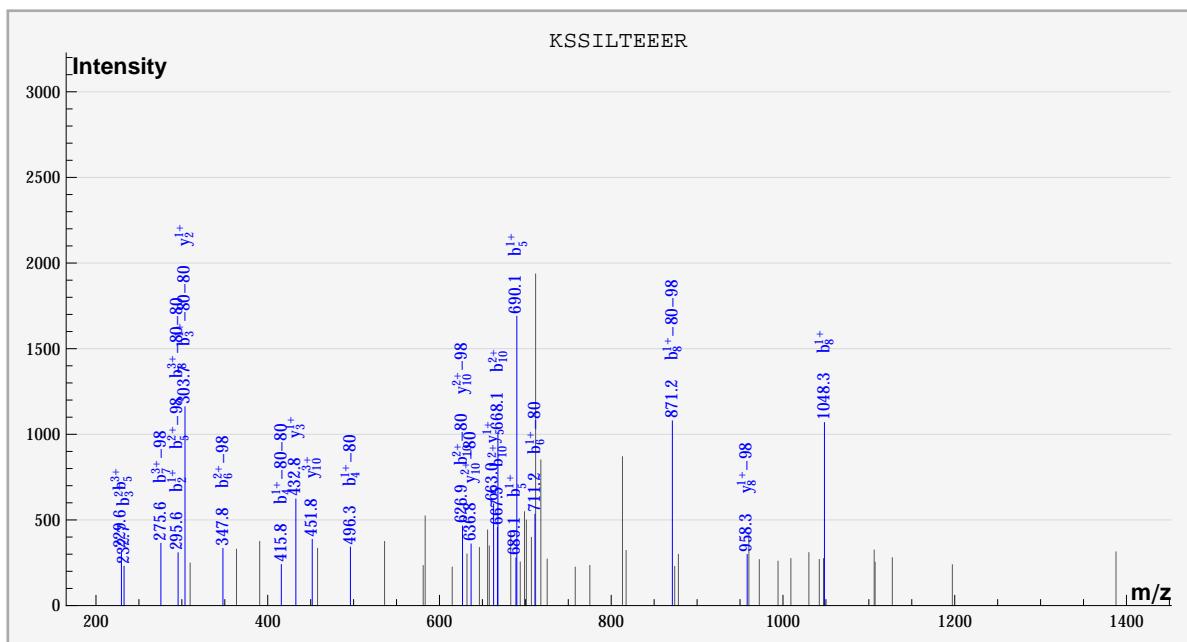
	#	b	b*	#	y	y*	P	P*
K	1						✓	✓
S	2	✓		9				
S	3	✓	✓	8		✓		
I	4		✓	7				
L	5	✓	✓	6				
T	6		✓	5	✓			
E	7		✓	4				
E	8	✓	✓	3	✓			
E	9			2	✓			
R	10	✓	✓	1				
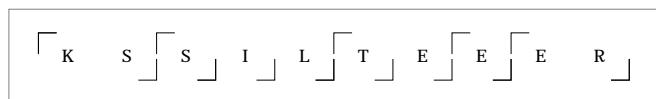
dbValid true NYSQLEDTVK PHOS(2) 2. 678. 0.759622 5.08639 100. ? 2970.
   S_Acido_new%gi|68568081|gb|AAY81010.1| NYSQLEDTVK%::PHOS::::::PHOS:::%sample_2%cmpd_1490

	♯	b	b*	♯	y	y*	P	P*
N	1							✓
Y	2			9	✓	✓		
S	3			8				
Q	4			7	✓			
L	5			6				
E	6	✓	✓	5	✓			
D	7		✓	4				
T	8			3	✓			
V	9		✓	2				
K	10	✓	✓	1				

⌈N ⌈Y S ⌈Q L ⌈E ⌋ D ⌋ ⌈T V ⌋ K ⌋
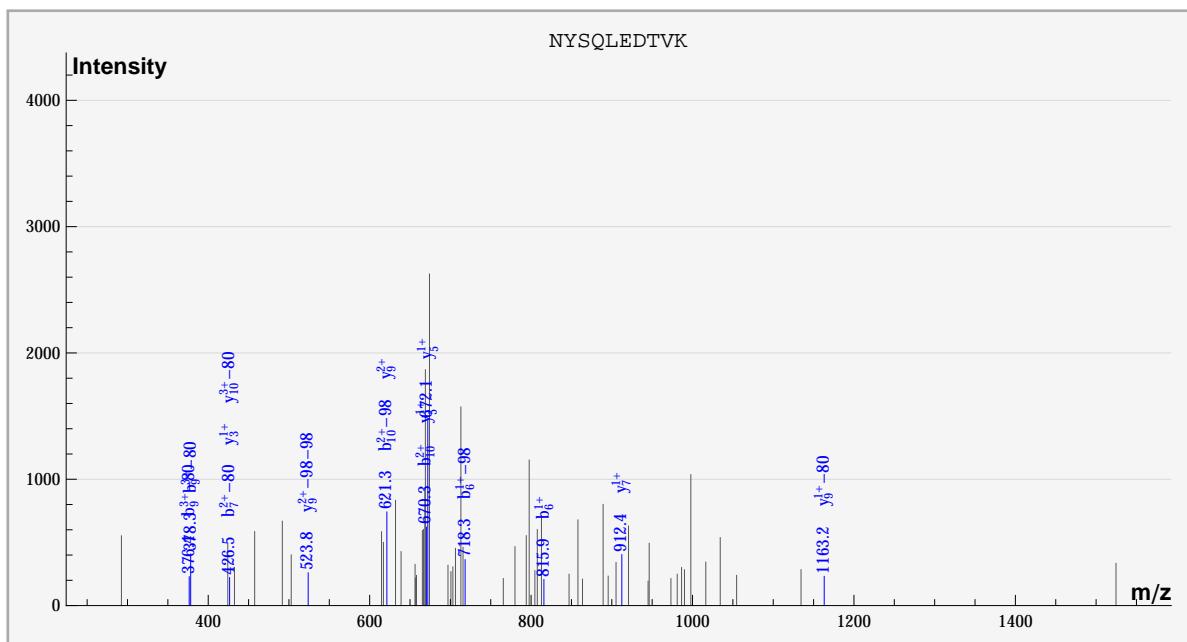
dbValid true GPPLSK PHOS(1) 1. 678. 0.322185 5.72134 100. ? 3084.
S_Acido_new%gi|68567821|gb|AAY80750.1| GPPLSK%:::::PHOS::%sample_0%cmpd_1680
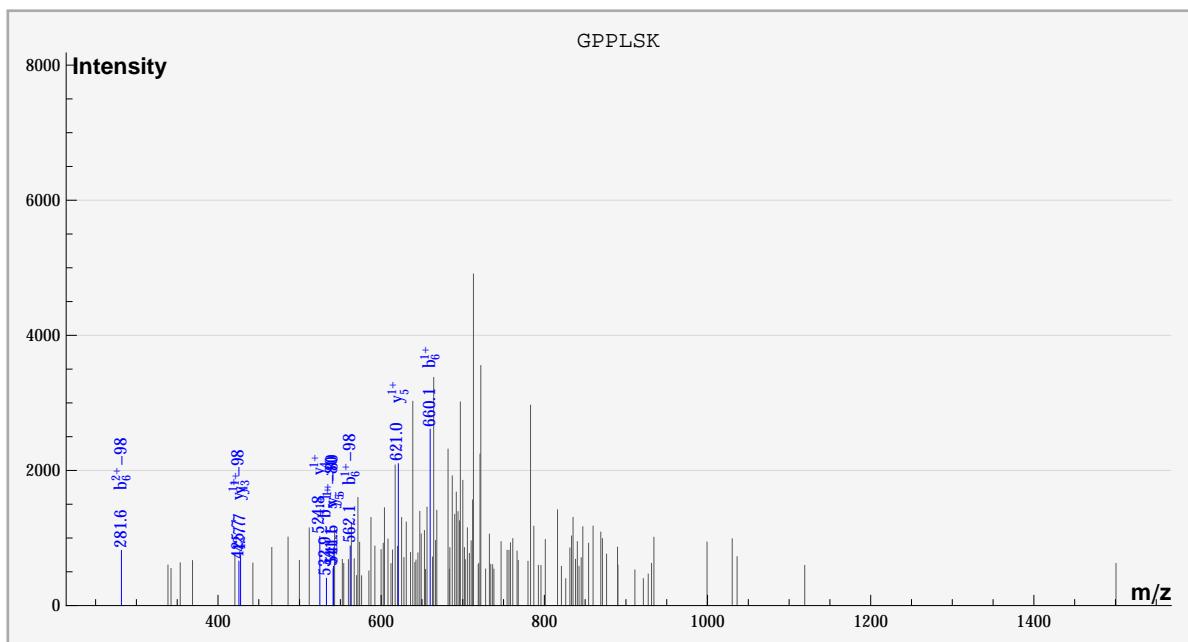
♯	b	b*	♯	y	y*	P	P*
G	1						
P	2			5	✓	✓	
P	3			4	✓	✓	
L	4			3	✓		
S	5	✓		2			
K	6	✓	✓	1			
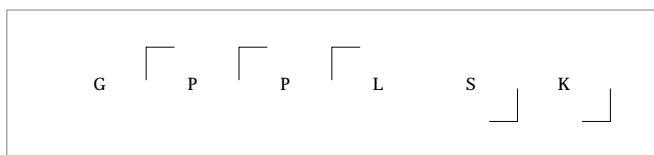
dbValid true NSQQSIGQSISK PHOS(1) 2. 679. −0.188618 5.16605 100. ? 2586.
   S_Acido_new%gi|68568657|gb|AAY81586.1| NSQQSIGQSISK%::::::::::::PHOS::%sample_0%cmpd_1229

#	b	b*	#	y	y*	P	P*
N	1						
S	2		11				
Q	3		10				
Q	4		9	✓	✓		
S	5		8	✓			
I	6	✓	7	✓	✓		
G	7	✓	6	✓	✓		
Q	8		5	✓	✓		
S	9		4				
I	10		3				
S	11	✓	2	✓			
K	12	✓	1				

N   S   Q ⌐Q ⌐S ⌐I ⌐G⌐ Q   S   I ⌐S⌐ K⌐

dbValid true MNISIVVSTR PHOS(3) 2. 679. 1.26262 5.16215 100. ? 3084.
S_Acido_new%gi|68566543|gb|AAY79472.1| MNISIVVSTR%::::PHOS::::PHOS:PHOS::%sample_0%cmpd_1682
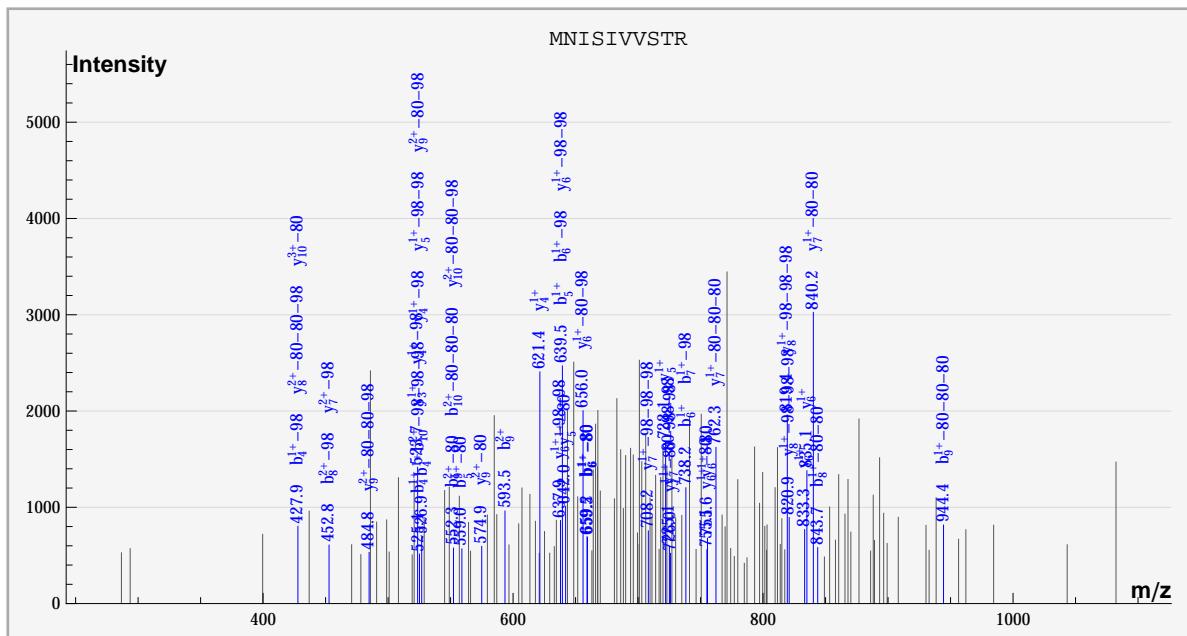
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
M	1							✓
N	2			9		✓		
I	3			8		✓		
S	4	✓	✓	7		✓		
I	5	✓	✓	6	✓	✓		
V	6	✓	✓	5	✓	✓		
V	7		✓	4	✓	✓		
S	8		✓	3	✓			
T	9	✓	✓	2				
R	10		✓	1				
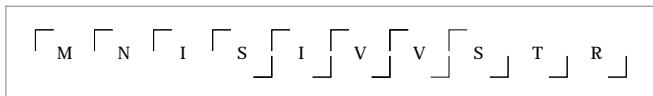
dbValid true NSQQSIGQSISK PHOS(1) 2. 679. -0.188618 5.17487 100. ? 3324.
S_Acido_new%gi|68568657|gb|AAY81586.1| NSQQSIGQSISK%:::::::::::PHOS::%sample_0%cmpd_1904

	#	*b*	*b**		#	*y*	*y**		**P**	**P***
N	1									
S	2				11					
Q	3				10		✓			
Q	4	✓			9					
S	5	✓			8	✓	✓			
I	6	✓			7		✓			
G	7	✓			6	✓	✓			
Q	8				5	✓				
S	9				4		✓			
I	10				3	✓				
S	11	✓			2	✓				
K	12	✓			1					

N S ⌐Q Q⌐S⌐I⌐G⌐Q⌐S⌐I⌐S⌐K⌐

dbValid true MTIKVINISKK PHOS(1) 2. 679. −1.11998 5.36326 100. ? 3588.
S_Acido_new%gi|68567455|gb|AAY80384.1| MTIKVINISKK%:::::::::PHOS:::%sample_0%cmpd_2148

MTIKVINISKK

	#	b	b*	#	y	y*	P	P*
M	1							
T	2			10				
I	3	✓		9				
K	4			8		✓		
V	5	✓		7	✓	✓		
I	6	✓		6				
N	7	✓		5	✓	✓		
I	8	✓		4	✓			
S	9		✓	3				
K	10	✓	✓	2				
K	11			1				

M   T   I ⌐ K ⌐ V ⌐ I ⌐ N ⌐ I ⌐ S ⌐ K ⌐ K

dbValid true TKTGEFTQSKR PHOS(1) 2. 680. 1.82429 5.21698 100. ? 2712.
 S_Acido_new%gi|68567392|gb|AAY80321.1| TKTGEFTQSKR%:::::::::PHOS:::%sample_3%cmpd_1343
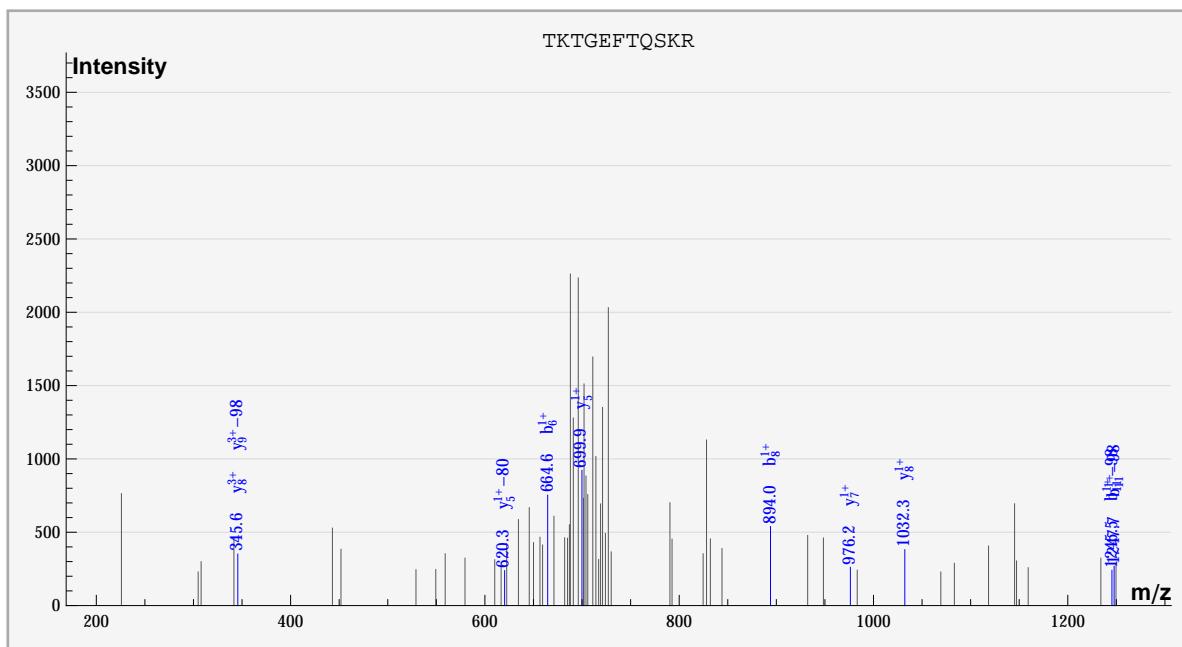
	♯	b	b*	♯	y	y*	P	P*
T	1							
K	2			10				
T	3			9		✓		
G	4			8	✓			
E	5			7	✓			
F	6	✓		6				
T	7			5	✓	✓		
Q	8	✓		4				
S	9			3				
K	10			2				
R	11		✓	1				

T K ⌐T ⌐G ⌐E F⌐T Q⌐S K R⌐
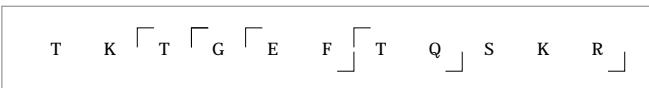
dbValid true NYSQLEDTVK PHOS(2) 2. 680. −1.24038 5.67562 100. ? 3132.
S_Acido_new%gi|68568081|gb|AAY81010.1| NYSQLEDTVK%::PHOS::::::PHOS:::%sample_3%cmpd_1729

	♯	b	b*		♯	y	y*		P	P*
N	1									✓
Y	2				9	✓	✓			
S	3				8					
Q	4				7	✓	✓			
L	5	✓			6		✓			
E	6		✓		5	✓				
D	7		✓		4	✓				
T	8	✓	✓		3	✓				
V	9		✓		2					
K	10	✓	✓		1					

N Y S Q L E D T V K

dbValid true GPPLSK PHOS(1) 1. 680. −1.67782 6.02304 100. ? 3186.
S_Acido_new%gi|68567821|gb|AAY80750.1| GPPLSK%:::::PHOS::%sample_2%cmpd_1666

GPPLSK
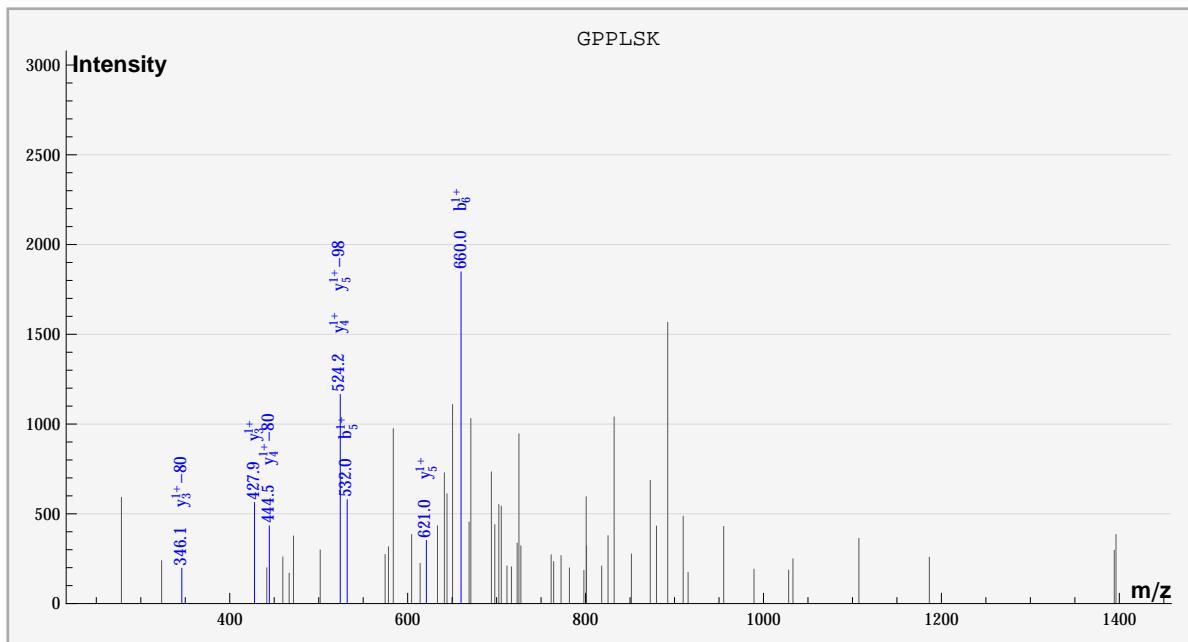
	♯	b	b*	♯	y	y*	P	P*
G	1							
P	2			5	✓	✓		
P	3			4	✓	✓		
L	4			3	✓	✓		
S	5	✓		2				
K	6	✓		1				
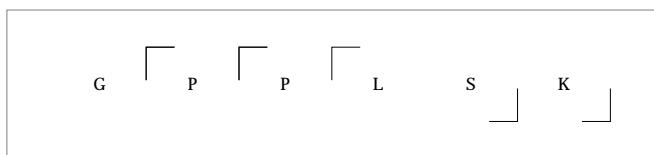
dbValid true FWENIIGRSR PHOS(1) 2. 680. −0.675748 5.24847 100. ? 3282.
   S_Acido_new%gi|68568042|gb|AAY80971.1| FWENIIGRSR%::::::::::PHOS::%sample_2%cmpd_1750


	#	b	b*	#	y	y*	P	P*
F	1							
W	2			9				
E	3			8	✓			
N	4			7	✓	✓		
I	5			6	✓			
I	6	✓		5	✓			
G	7	✓		4				
R	8			3				
S	9			2				
R	10	✓		1				

dbValid true NYSQLEDTVK PHOS(2) 2. 680. −1.24038 5.13951 100. ? 3342.
   S_Acido_new%gi|68568081|gb|AAY81010.1| NYSQLEDTVK%::PHOS::::::PHOS:::%sample_3%cmpd_1918
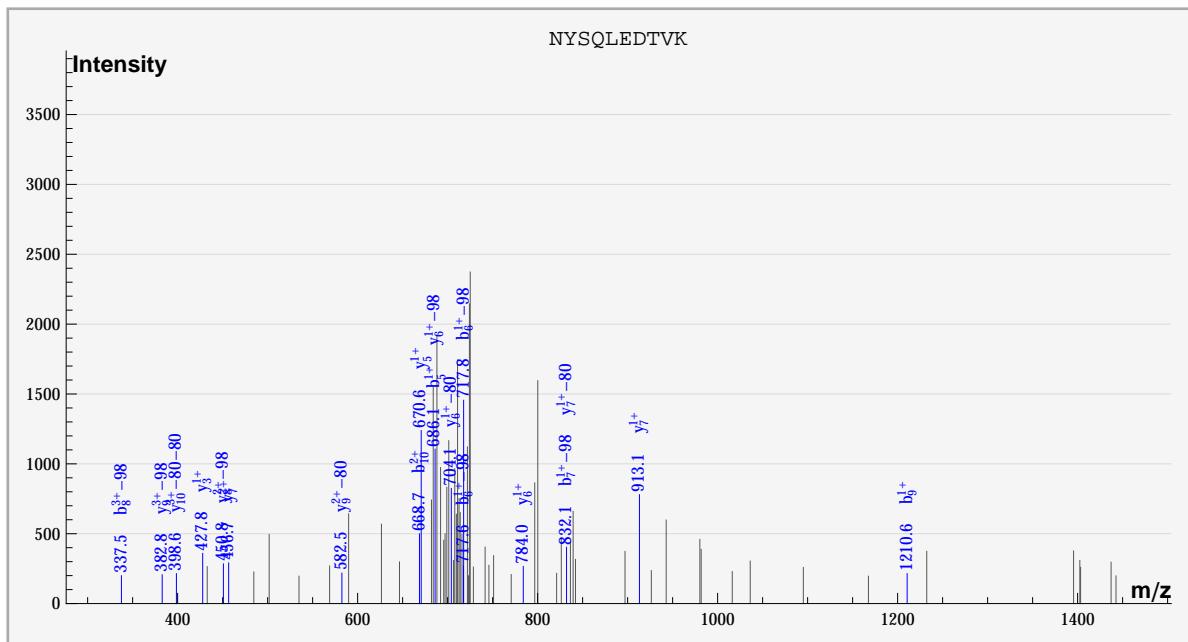
	♯	b	b*	♯	y	y*	P	P*
N	1							✓
Y	2			9		✓		
S	3			8		✓		
Q	4			7	✓	✓		
L	5	✓		6	✓	✓		
E	6		✓	5	✓			
D	7		✓	4				
T	8		✓	3	✓			
V	9	✓		2				
K	10	✓		1				
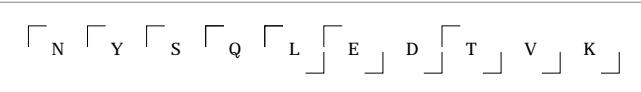
dbValid true FLKGYYEDDK PHOS(1) 2. 681. −1.71079 5.13818 100. ? 2118.
   S_Acido_new%gi|68568489|gb|AAY81418.1| FLKGYYEDDK%:::::PHOS::::::%sample_1%cmpd_756
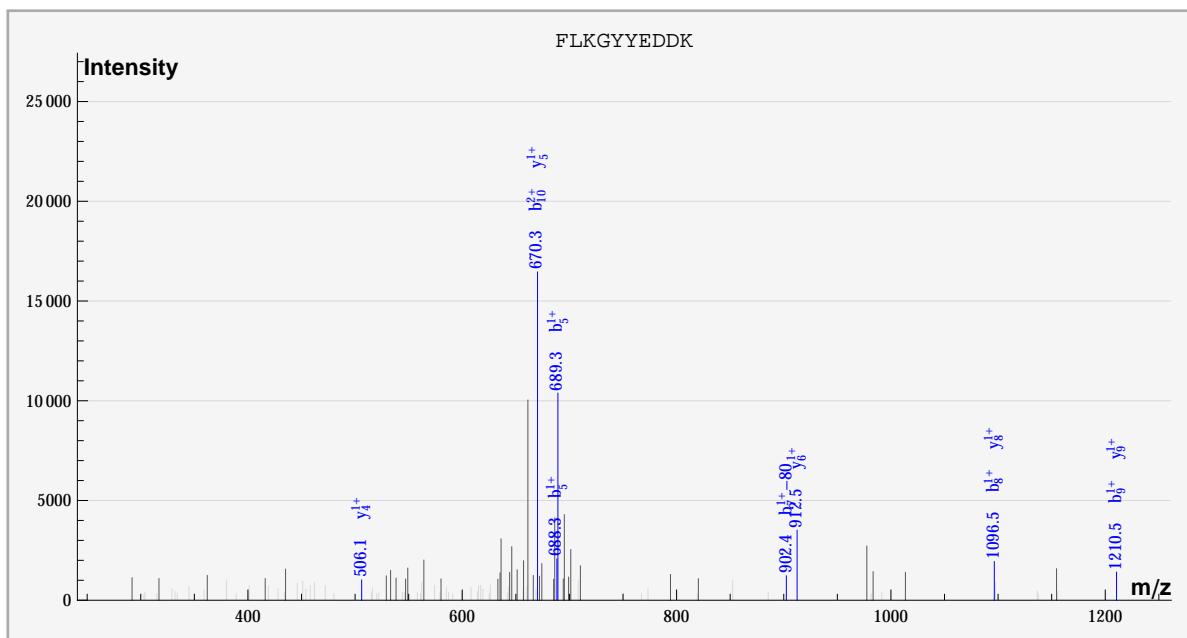
	♯	b	b*	♯	y	y*	P	P*
F	1							
L	2			9	✓			
K	3			8	✓			
G	4			7				
Y	5	✓		6	✓			
Y	6			5	✓			
E	7		✓	4	✓			
D	8	✓		3				
D	9	✓		2				
K	10	✓		1				

dbValid true FWENIIGRSR PHOS(1) 2. 681. −1.67575 4.98498 100. ? 2250.
    S_Acido_new%gi|68568042|gb|AAY80971.1| FWENIIGRSR%::::::::::PHOS::%sample_3%cmpd_925

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
F	1							
W	2			9	✓	✓		
E	3	✓		8		✓		
N	4	✓		7	✓	✓		
I	5	✓		6		✓		
I	6			5	✓			
G	7			4	✓			
R	8			3	✓	✓		
S	9		✓	2				
R	10	✓		1				

dbValid true SIILEASDNIK PHOS(2) 2. 681. 0.801282 5.1204 100. ? 3690.
S_Acido_new%gi|68567536|gb|AAY80465.1| SIILEASDNIK%:PHOS::::::PHOS:::::%sample_3%cmpd_2239

|	♯	b	b*	♯	y	y*	P	P*
S	1							
I	2			10				
I	3			9		✓		
L	4			8				
E	5	✓	✓	7	✓	✓		
A	6	✓	✓	6	✓	✓		
S	7	✓	✓	5	✓			
D	8	✓	✓	4	✓			
N	9		✓	3				
I	10	✓	✓	2				
K	11			1				
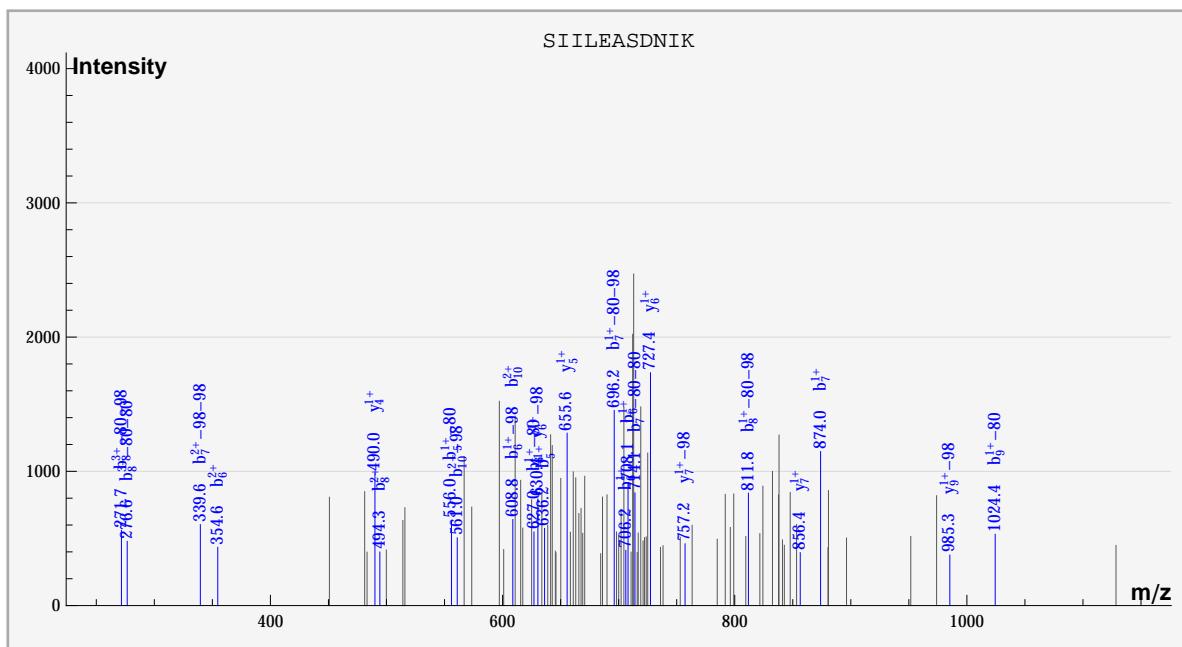
S I ⌈I L ⌈E ⌈A ⌈S ⌈D N I K

dbValid true TEEEEEEEEK PHOS(1) 2. 682. −1.2626 5.05066 100. ? 3906.
 S_Acido_new%gi|68567193|gb|AAY80122.1| TEEEEEEEEK%:PHOS:::::::::%sample_1%cmpd_2291

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
T	1							
E	2			9				
E	3			8	✓			
E	4	✓		7	✓			
E	5			6	✓			
E	6			5	✓			
E	7			4				
E	8			3				
E	9	✓	✓	2				
K	10	✓		1				

dbValid true TEEEEEEEEK PHOS(1) 2. 682. −1.2626 5.02195 100. ? 3918.
S_Acido_new%gi|68567193|gb|AAY80122.1| TEEEEEEEEK%:PHOS:::::::::%sample_1%cmpd_2302
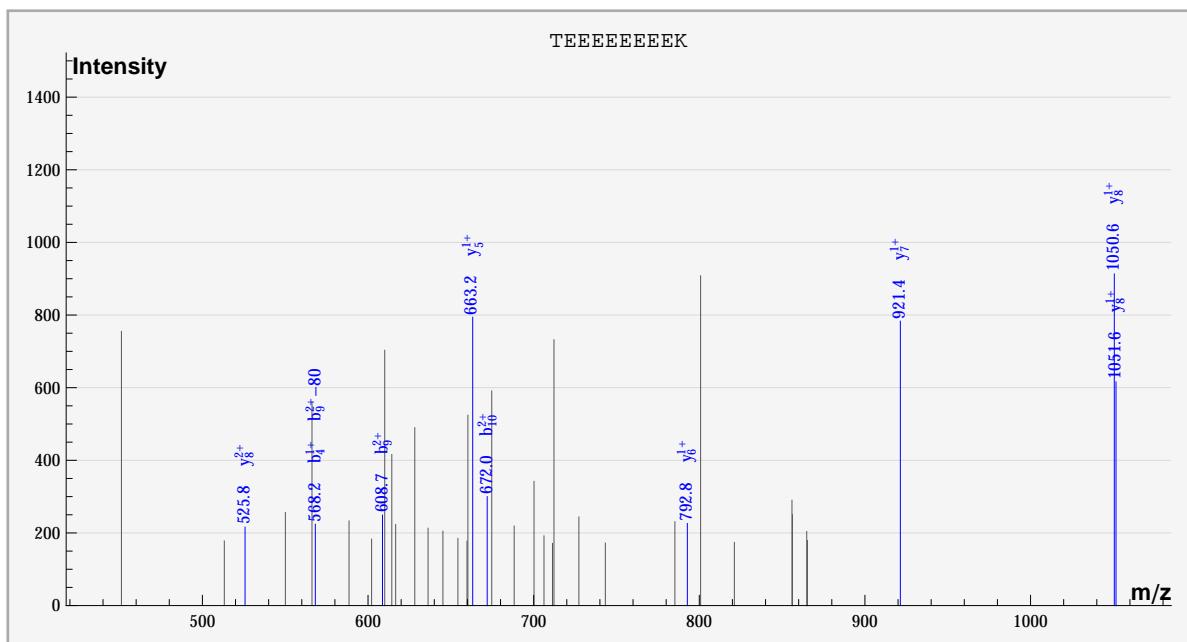
TEEEEEEEEK

	♯	b	b^*	♯	y	y^*	P	P*
T	1							
E	2			9				
E	3			8	✓			
E	4	✓		7	✓			
E	5	✓		6	✓			
E	6			5	✓			
E	7			4				
E	8			3				
E	9	✓	✓	2				
K	10	✓		1				

T E E E E E E E E K

dbValid true TEEEEEEEEK PHOS(1) 2. 682. −1.2626 5.06085 100. ? 3930.
S_Acido_new%gi|68567193|gb|AAY80122.1| TEEEEEEEEK%:PHOS::::::::::%sample_1%cmpd_2312

	♯	b	b^*		♯	y	y^*		**P**	**P***
T	1									
E	2				9					
E	3				8	✓				
E	4	✓			7	✓				
E	5	✓			6	✓				
E	6				5	✓				
E	7				4					
E	8				3					
E	9	✓	✓		2					
K	10	✓			1					
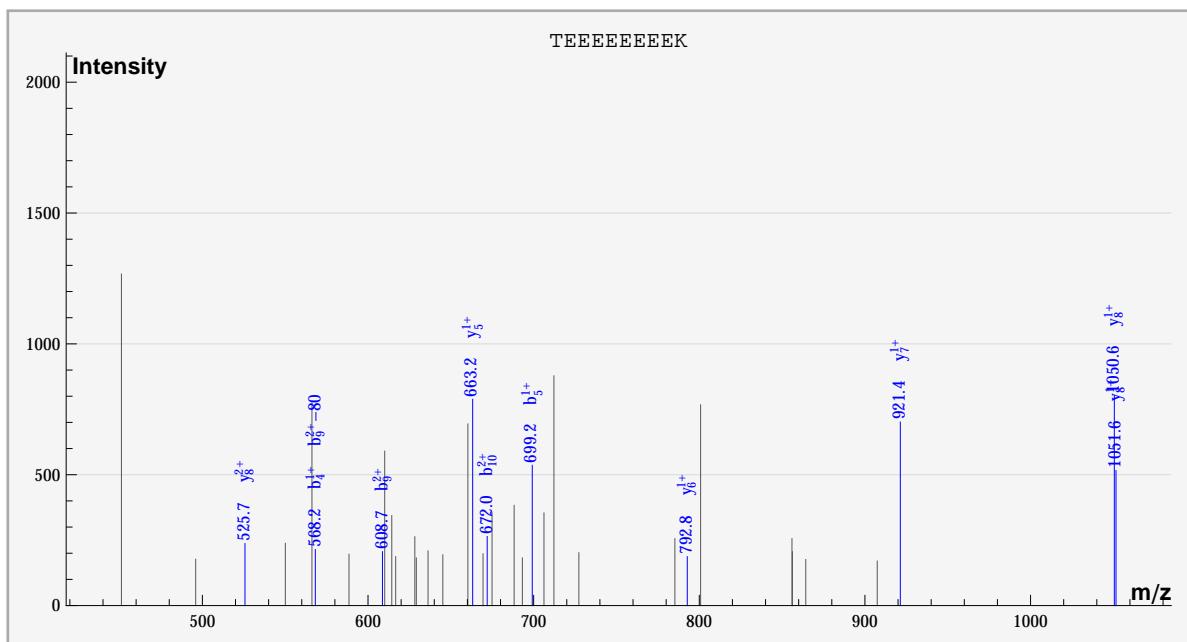
dbValid true DKYIFHFRR PHOS(1) 2. 682. −0.670663 5.44921 100. ? 4080.
S_Acido_new%gi|68568101|gb|AAY81030.1| DKYIFHFRR%:::PHOS:::::::%sample_3%cmpd_2594
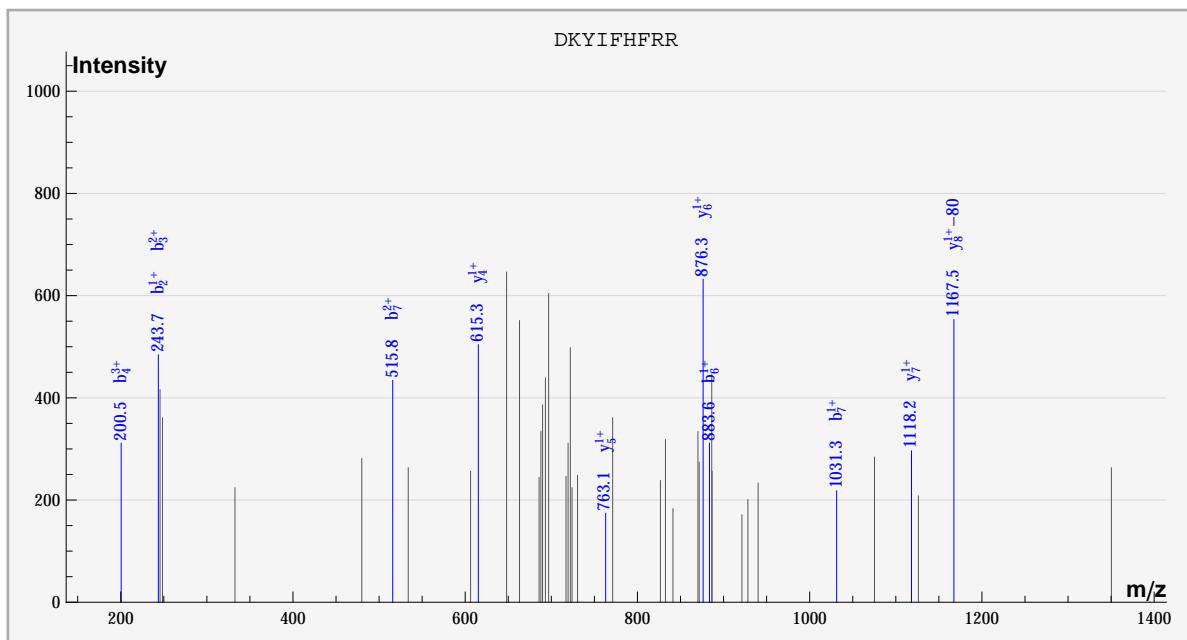
	♯	b	b*	♯	y	y*	P	P*
D	1							
K	2	✓		8		✓		
Y	3	✓		7	✓			
I	4	✓		6	✓			
F	5			5	✓			
H	6	✓		4	✓			
F	7	✓		3				
R	8			2				
R	9			1				

D K Y I F H F R R

dbValid true GGSLLR PHOS(1) 1. 684. −1.67167 5.13087 100. ? 2640.
S_Acido_new%gi|68567831|gb|AAY80760.1| GGSLLR%:::PHOS::::%sample_1%cmpd_1206
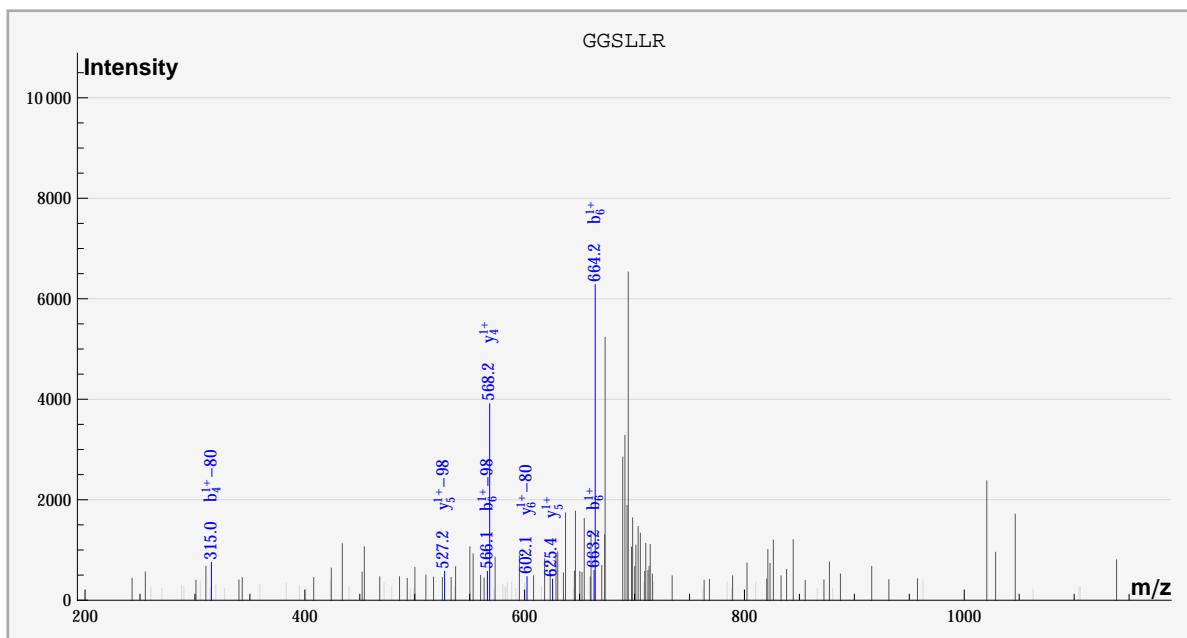
	#	b	b*	#	y	y*	P	P*
G	1							✓
G	2			5	✓	✓		
S	3			4	✓			
L	4		✓	3				
L	5			2				
R	6	✓	✓	1				
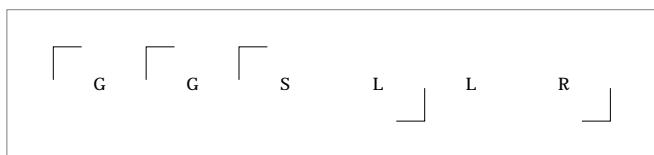
dbValid true GGSLLR PHOS(1) 1. 684. −1.67167 5.54287 100. ? 2868.
S_Acido_new%gi|68567831|gb|AAY80760.1| GGSLLR%:::PHOS::::%sample_3%cmpd_1490
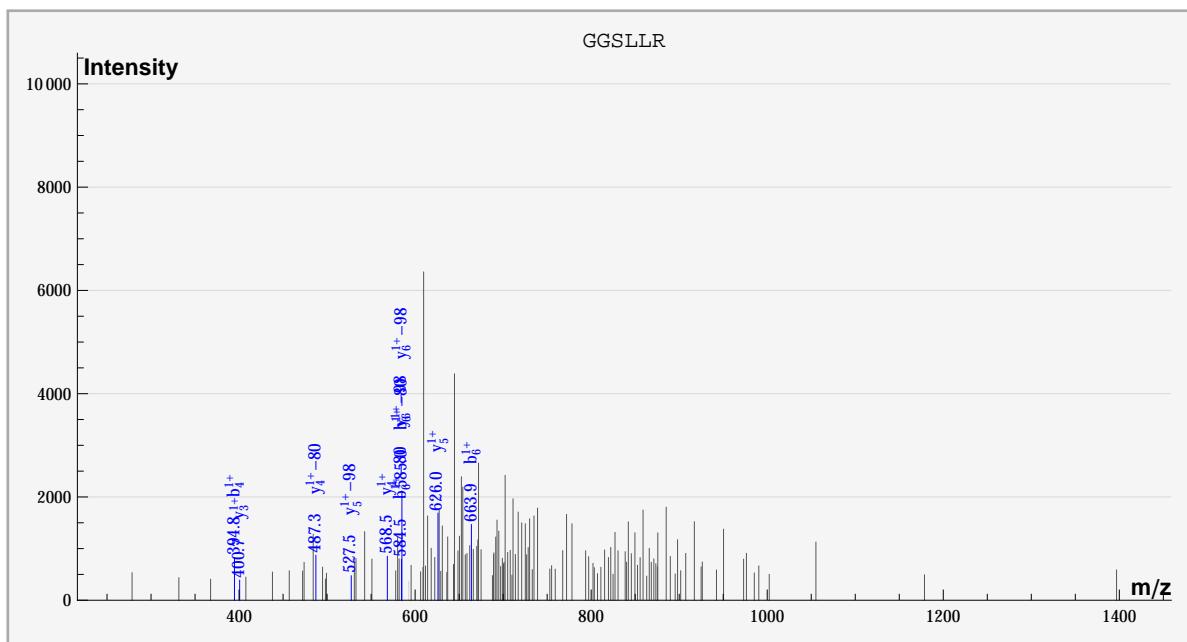
#	b	b*		#	y	y*		P	P*
G	1								✓
G	2			5	✓	✓			
S	3			4	✓	✓			
L	4	✓		3	✓				
L	5			2					
R	6	✓	✓	1					
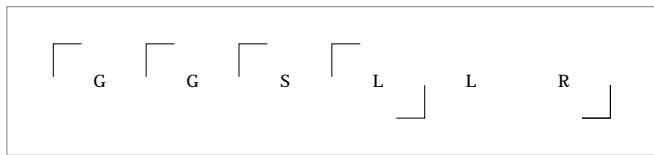
dbValid true LANTSVSVDDIR PHOS(1) 2. 684. 1.32157 5.02562 100. ? 3066.
  S_Acido_new%gi|68567378|gb|AAY80307.1| LANTSVSVDDIR%::::PHOS:::::::::%sample_3%cmpd_1667
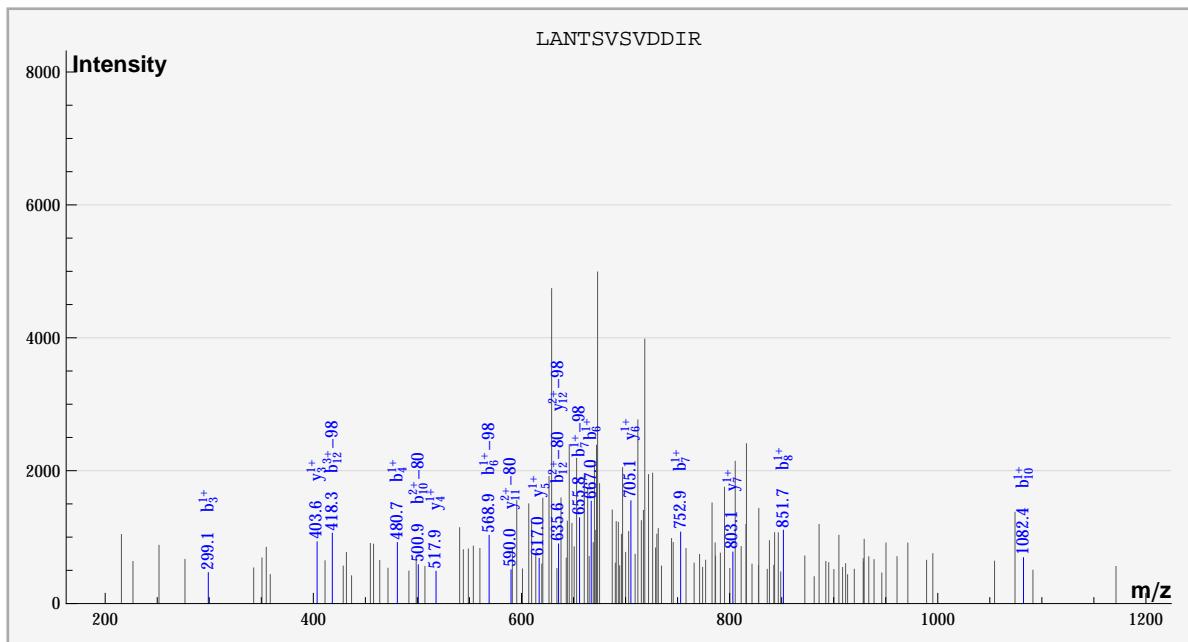
	♯	b	b*	♯	y	y*	P	P*
L	1							✓
A	2			11		✓		
N	3	✓		10				
T	4	✓		9				
S	5			8				
V	6	✓	✓	7		✓		
S	7	✓	✓	6		✓		
V	8	✓		5		✓		
D	9			4		✓		
D	10	✓	✓	3		✓		
I	11			2				
R	12		✓	1				

L A N T S V S V D D I R

dbValid true YWSSTEDR PHOS(4) 2. 684. −1.84232 5.33971 100. ? 4560.
 S_Acido_new%gi|68568094|gb|AAY81023.1| YWSSTEDR%:PHOS::PHOS:PHOS:PHOS::::%sample_1%cmpd_2838
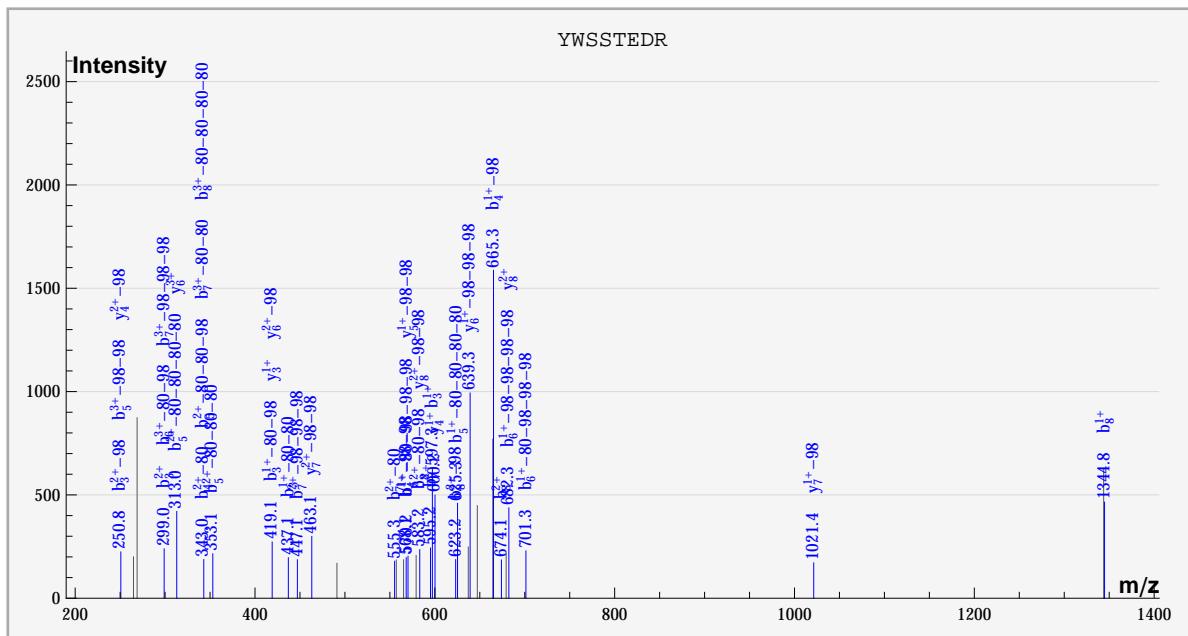
	♯	b	b*	♯	y	y*	P	P*
Y	1						✓	✓
W	2			7		✓		
S	3	✓	✓	6	✓	✓		
S	4		✓	5		✓		
T	5		✓	4	✓	✓		
E	6		✓	3	✓			
D	7	✓	✓	2				
R	8	✓	✓	1				
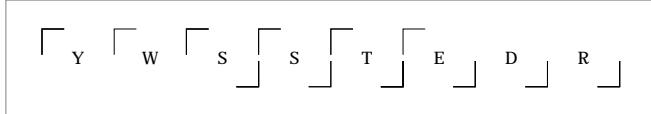
dbValid true YWSSTEDR PHOS(4) 2. 684. −1.84232 5.23785 100. ? 4584.
  S_Acido_new%gi|68568094|gb|AAY81023.1| YWSSTEDR%:PHOS::PHOS:PHOS:PHOS::::%sample_1%cmpd_2859

	♯	b	b*		♯	y	y*		P	P*
Y	1								✓	✓
W	2				7		✓			
S	3	✓	✓		6	✓	✓			
S	4		✓		5		✓			
T	5		✓		4	✓	✓			
E	6		✓		3	✓				
D	7	✓	✓		2					
R	8	✓	✓		1					

dbValid true RLKESSSSR PHOS(4) 2. 686. −0.778858 5.09483 100. ? 1422.
S_Acido_new%gi|68567995|gb|AAY80924.1| RLKESSSSR%:::::PHOS:PHOS:PHOS:PHOS::%sample_1%cmpd_169
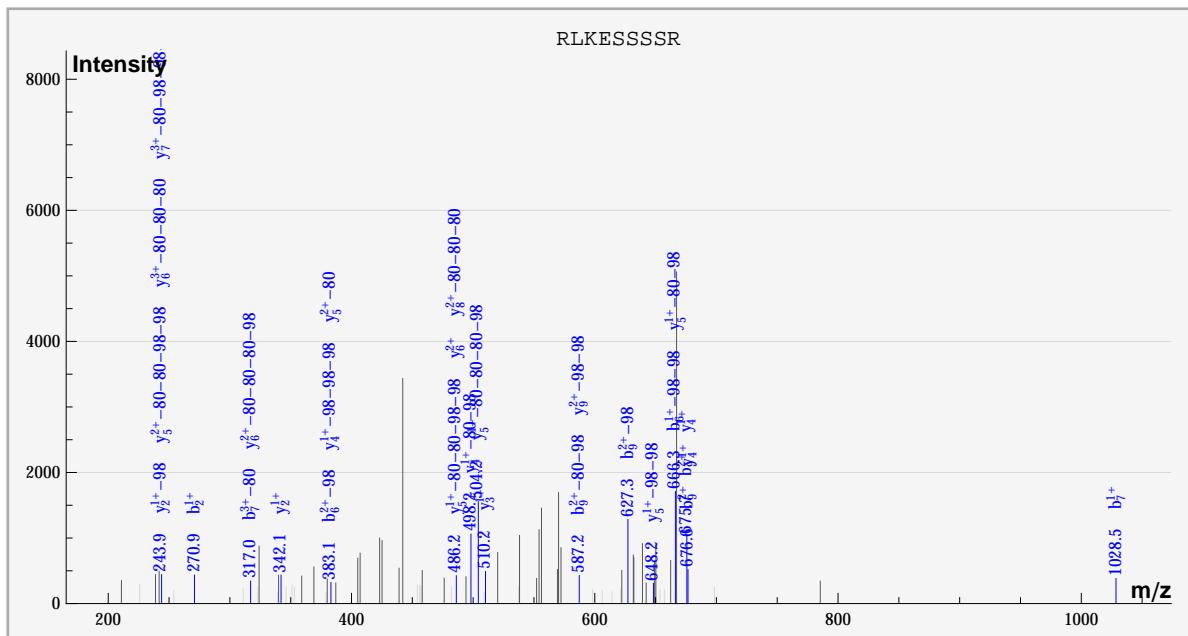
	♯	*b*	*b***		♯	*y*	*y***		**P**	**P***
R	1									✓
L	2	✓			8		✓			
K	3				7		✓			
E	4				6	✓	✓			
S	5				5		✓			
S	6		✓		4	✓	✓			
S	7	✓	✓		3	✓				
S	8				2	✓	✓			
R	9	✓	✓		1					
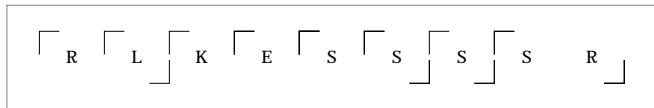
dbValid true IYKYGATYSPK PHOS(1) 2. 686. −0.176778 5.00005 100. ? 1818.
S_Acido_new%gi|68568042|gb|AAY80971.1| IYKYGATYSPK%::PHOS::::::::::%sample_1%cmpd_505

	#	b	b*	#	y	y*	P	P*
I	1			10	✓			
Y	2	✓		10	✓			
K	3			9				
Y	4	✓	✓	8	✓			
G	5	✓		7				
A	6		✓	6	✓			
T	7			5	✓			
Y	8			4	✓			
S	9		✓	3				
P	10			2	✓			
K	11			1				

I Y K Y G A T Y S P K

dbValid true IKETVDEVLSR PHOS(1) 2. 686. −1.15786 5.81787 100. ? 2046.
  S_Acido_new%gi|68567557|gb|AAY80486.1| IKETVDEVLSR%::::::::::PHOS::%sample_3%cmpd_741

IKETVDEVLSR
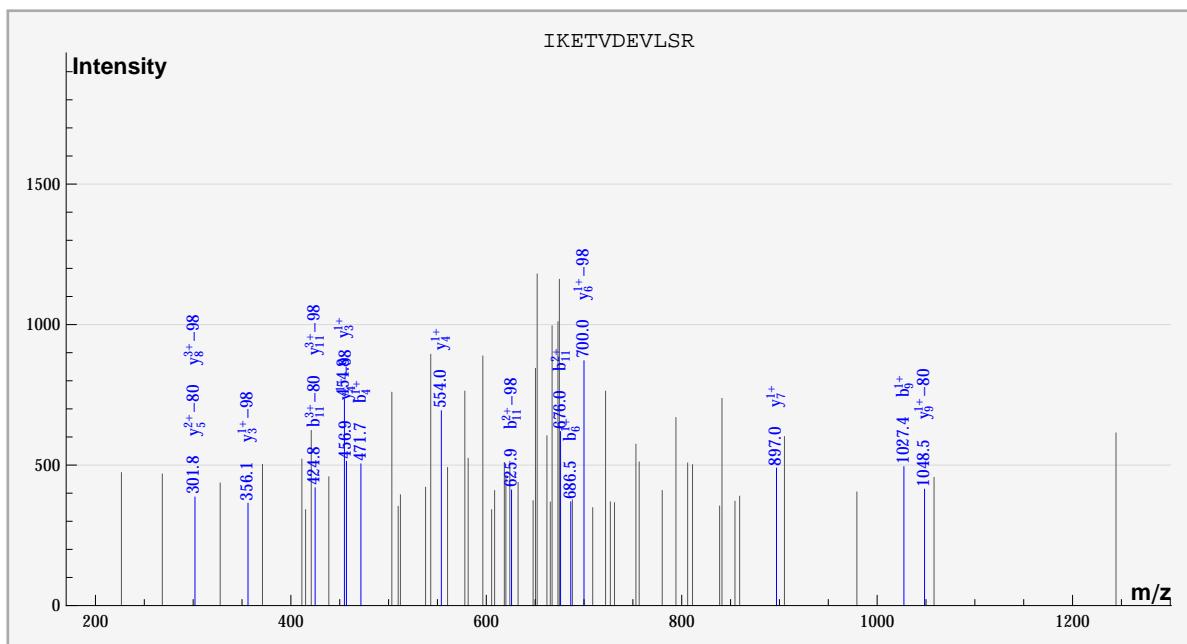
	#	b	b*	#	y	y*	P	P*
I	1							✓
K	2			10				
E	3			9		✓		
T	4	✓		8		✓		
V	5			7	✓			
D	6	✓		6		✓		
E	7			5		✓		
V	8			4	✓	✓		
L	9	✓		3	✓	✓		
S	10			2				
R	11	✓	✓	1				

dbValid true SQILEIANYLK PHOS(1) 2. 686. 0.349602 5.00332 100. ? 2412.
S_Acido_new%gi|68568698|gb|AAY81627.1| SQILEIANYLK%:::::::::PHOS:::%sample_3%cmpd_1073
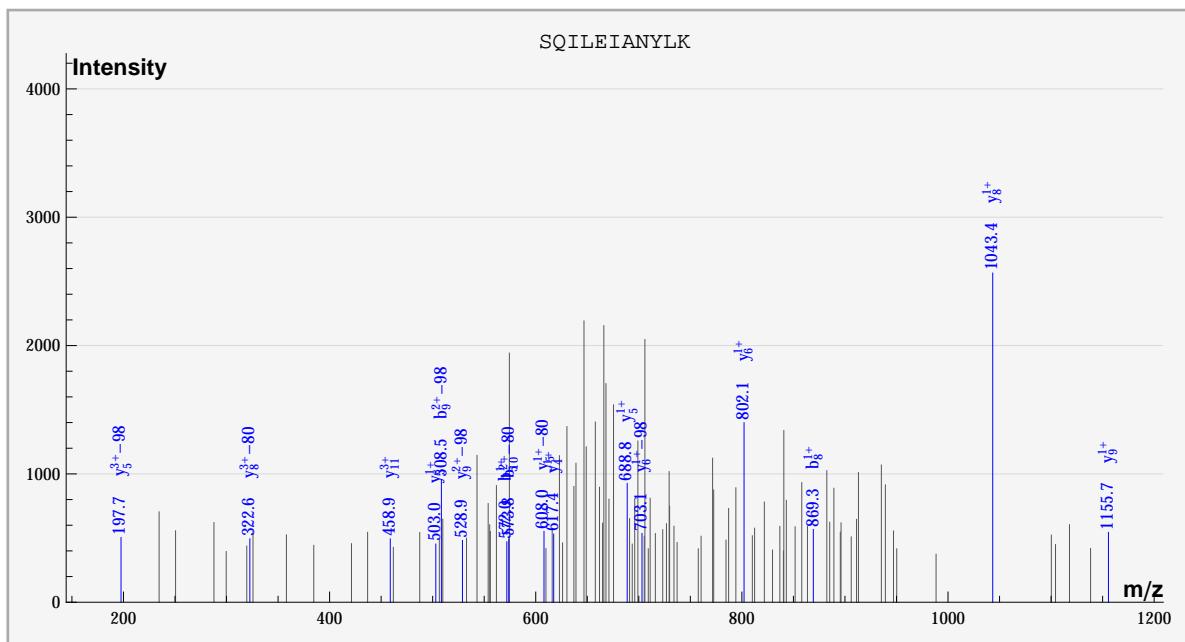
	#	b	b*	#	y	y*	P	P*
S	1						✓	
Q	2			10				
I	3			9	✓	✓		
L	4			8	✓	✓		
E	5	✓		7				
I	6			6	✓	✓		
A	7			5	✓	✓		
N	8	✓		4	✓			
Y	9		✓	3	✓			
L	10		✓	2				
K	11			1				

S Q I L E I A N Y L K

dbValid true MTSILGGTCTR Cys_CAM(1),Oxidation_M(1),PHOS(2) 2.
686. 0.755497 4.97682 100. ? 3090. S_Acido_new%gi|68568045|gb|AAY80974.1|
MTSILGGTCTR%:Oxidation_M::PHOS::::::Cys_CAM:PHOS::%sample_3%cmpd_1691
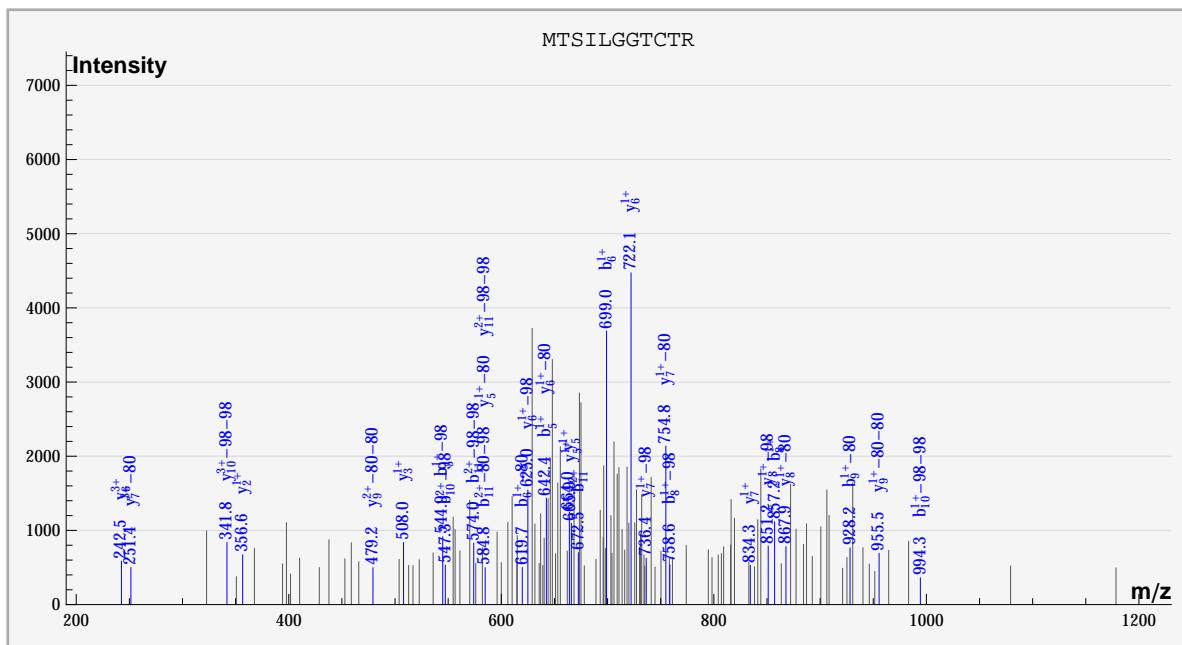
	#	b	b*	#	y	y*	P	P*
M	1							✓
T	2			10		✓		
S	3			9		✓		
I	4			8		✓		
L	5	✓	✓	7	✓	✓		
G	6	✓	✓	6	✓	✓		
G	7			5	✓	✓		
T	8	✓	✓	4				
C	9		✓	3	✓			
T	10		✓	2	✓			
R	11	✓	✓	1				
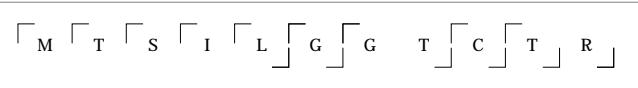
dbValid true LSMRKTNQVSK PHOS(1) 2. 686. 0.344337 5.00081 100. ? 3348.
  S_Acido_new%gi|68568162|gb|AAY81091.1| LSMRKTNQVSK%::::::::::PHOS::%sample_2%cmpd_1809

	♯	b	b*	♯	y	y*	P	P*
L	1							
S	2			10		✓		
M	3			9	✓			
R	4			8	✓			
K	5	✓		7		✓		
T	6			6	✓	✓		
N	7			5				
Q	8			4	✓			
V	9	✓		3				
S	10	✓	✓	2	✓			
K	11	✓		1				

L ⌐S ⌐M ⌐R ⌐K⌐T N ⌐Q V⌐S⌡ K⌡

dbValid   true   IYKYGATYSPK   PHOS(1)   2.   687.   −1.17678   5.28141   100.   ?   2172.
S_Acido_new%gi|68568042|gb|AAY80971.1| IYKYGATYSPK%::PHOS::::::::::%sample_3%cmpd_853

IYKYGATYSPK
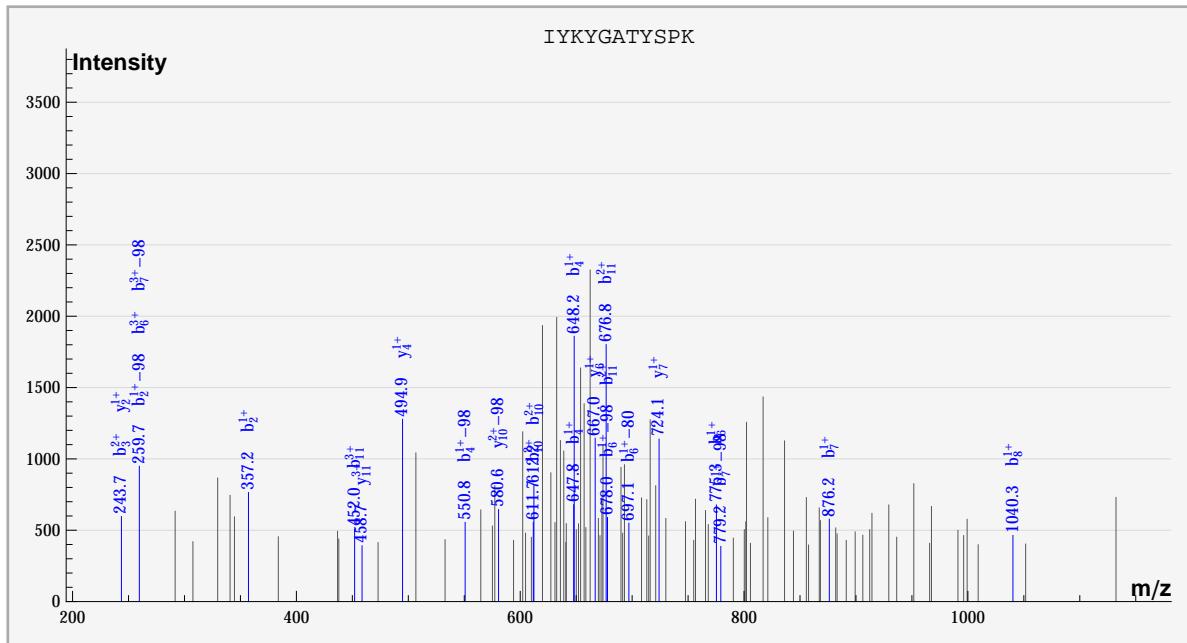
	#	b	b*	#	y	y*	P	P*
I	1						✓	
Y	2	✓	✓	10		✓		
K	3	✓		9				
Y	4	✓	✓	8				
G	5			7	✓			
A	6	✓	✓	6	✓			
T	7	✓	✓	5				
Y	8	✓		4	✓			
S	9			3				
P	10	✓		2	✓			
K	11	✓		1				

I Y K Y G A T Y S P K

dbValid true DLFDLVTTYK PHOS(2) 2. 687. 0.785102 5.02812 100. ? 3006.
S_Acido_new%gi|68567094|gb|AAY80023.1| DLFDLVTTYK%::::::::PHOS:PHOS::%sample_2%cmpd_1517
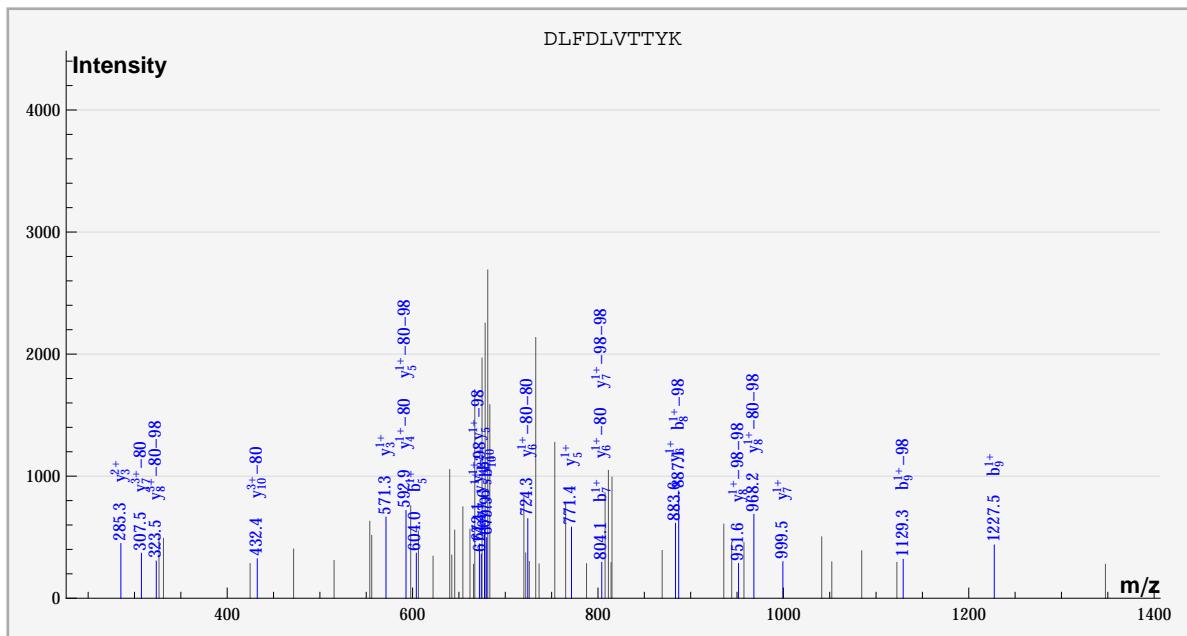
	♯	b	b*		♯	y	y*		P	P*
D	1									✓
L	2				9					
F	3				8		✓			
D	4				7	✓	✓			
L	5	✓			6	✓	✓			
V	6				5	✓	✓			
T	7	✓			4	✓	✓			
T	8		✓		3	✓				
Y	9	✓	✓		2					
K	10	✓			1					
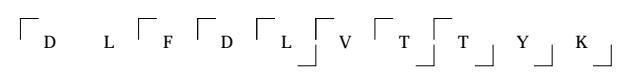
dbValid true LLPTMTTGSSKR PHOS(1) 2. 688. −1.66128 5.13711 100. ? 2640.
    S_Acido_new%gi|68568308|gb|AAY81237.1| LLPTMTTGSSKR%::::::::::PHOS::::%sample_3%cmpd_1284

	#	b	b*	#	y	y*	P	P*
L	1							
L	2			11				
P	3			10	✓	✓		
T	4			9		✓		
M	5	✓		8	✓	✓		
T	6			7	✓	✓		
T	7	✓		6	✓	✓		
G	8	✓		5	✓	✓		
S	9	✓	✓	4	✓			
S	10			3				
K	11	✓	✓	2				
R	12		✓	1				

L   L ⌈P ⌈T ⌈M⌉T ⌈T⌉G⌉S⌉ S   K⌋R⌋

dbValid true FAVTASALKVMR PHOS(1) 2. 688. −0.645838 5.44724 100. ? 2712.
S_Acido_new%gi|68567019|gb|AAY79948.1| FAVTASALKVMR%::::PHOS:::::::::%sample_3%cmpd_1351
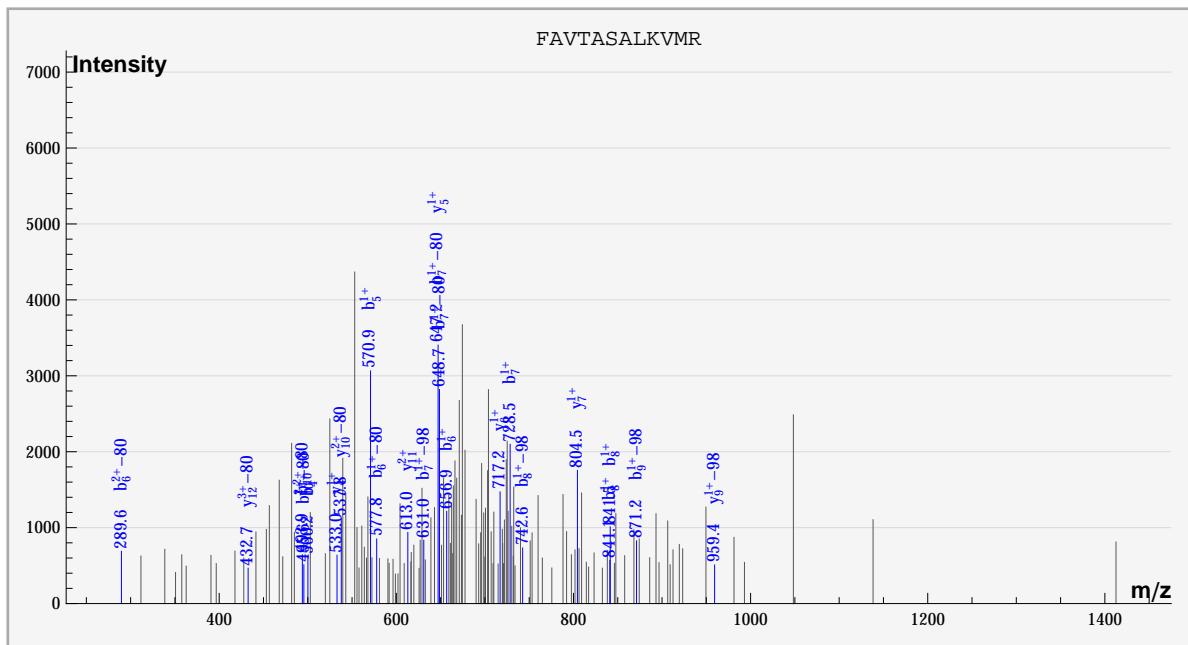
	#	b	b*	#	y	y*	P	P*
F	1							✓
A	2			11	✓			
V	3			10		✓		
T	4	✓		9		✓		
A	5	✓		8				
S	6	✓	✓	7	✓			
A	7	✓	✓	6	✓			
L	8	✓	✓	5	✓			
K	9		✓	4	✓			
V	10		✓	3				
M	11			2				
R	12			1				

⌐F ⌐A ⌐V ⌐T⌐ A⌐ S⌐ A⌐ L⌐ K⌐ V⌐ M R

dbValid true YDIAIALYAER PHOS(1) 2. 688. 1.32612 5.00794 100. ? 3474.
S_Acido_new%gi|68568419|gb|AAY81348.1| YDIAIALYAER%:PHOS::::::::::%sample_3%cmpd_2047

|	#	b	b*	#	y	y*	P	P*
Y	1							✓
D	2		✓	10				
I	3	✓		9		✓		
A	4			8		✓		
I	5	✓	✓	7		✓		
A	6	✓	✓	6		✓		
L	7	✓	✓	5		✓		
Y	8		✓	4				
A	9			3		✓		
E	10			2				
R	11	✓	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.69718 100. ? 1314.
S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::::PHOS::%sample_1%cmpd_81

| ♯	b	b*	♯	y	y*	P	P*
R	1						
G	2			10			
D	3	✓		9			
V	4	✓		8			
I	5	✓		7	✓		
Y	6			6			
E	7			5	✓	✓	
I	8	✓		4	✓	✓	
N	9			3	✓	✓	
S	10			2	✓		
K	11	✓		1			

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.26241 100. ? 1326.
S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_91

| ♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
R	1						
G	2		10				
D	3	✓	9				
V	4	✓	8				
I	5	✓	7	✓			
Y	6		6		✓		
E	7		5	✓	✓		
I	8	✓	4	✓	✓		
N	9		3	✓	✓		
S	10		2	✓			
K	11	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.22355 100. ? 1338.
S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_101
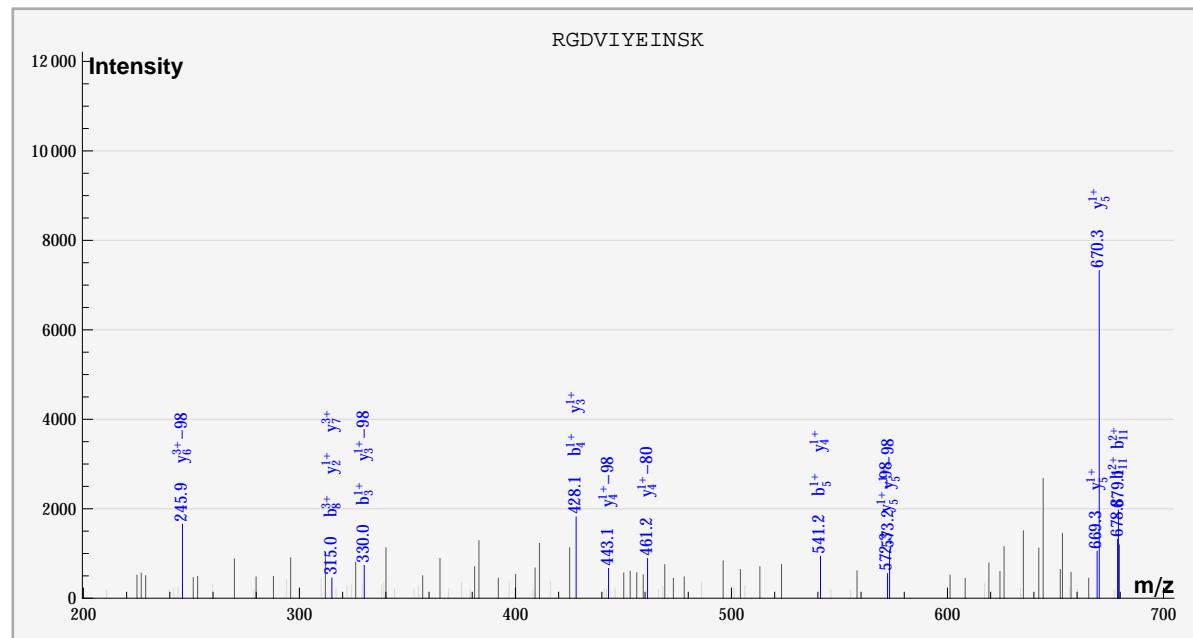
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
R	1							
G	2			10				
D	3	✓		9				
V	4	✓		8				
I	5	✓		7	✓			
Y	6			6		✓		
E	7			5	✓	✓		
I	8	✓		4	✓	✓		
N	9			3	✓	✓		
S	10			2	✓			
K	11	✓		1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.38235 100. ? 1350.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_111

RGDVIYEINSK

| #	b	b*	#	y	y*	P	P*
R	1						
G	2		10				
D	3	✓	9				
V	4	✓	8				
I	5	✓	7				
Y	6		6		✓		
E	7		5	✓	✓		
I	8		4	✓	✓		
N	9		3	✓	✓		
S	10		2				
K	11	✓	1				

R G D V I Y E I N S K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.09088 100. ? 1374.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_132

| ♯	b	b*	♯	y	y*	P	P*
R	1						
G	2		10				
D	3	✓	9				
V	4	✓	8				
I	5	✓	7	✓			
Y	6		6		✓		
E	7		5	✓	✓		
I	8	✓	4	✓	✓		
N	9		3	✓	✓		
S	10		2	✓			
K	11	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.24088 100. ? 1386.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_142
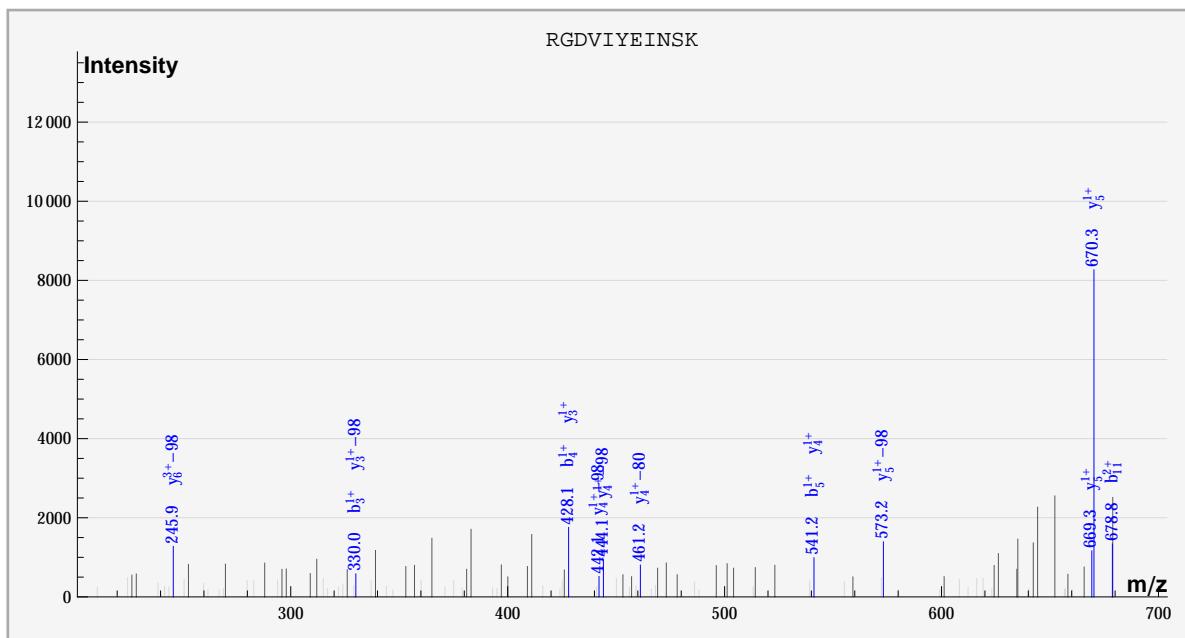
| #	b	b*	#	y	y*	P	P*
R	1						
G	2		10				
D	3	✓	9				
V	4	✓	8				
I	5	✓	7				
Y	6		6		✓		
E	7		5	✓	✓		
I	8		4	✓	✓		
N	9		3	✓	✓		
S	10		2				
K	11	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 4.98414 100. ? 1434.
    S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_182

#	b	b*	#	y	y*	P	P*
R	1						
G	2		10				
D	3	✓	9		✓		
V	4	✓	8				
I	5	✓	7				
Y	6		6		✓		
E	7		5	✓	✓		
I	8		4	✓	✓		
N	9		3	✓	✓		
S	10	✓	2	✓			
K	11	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.18115 100. ? 1482.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::PHOS::%sample_1%cmpd_223
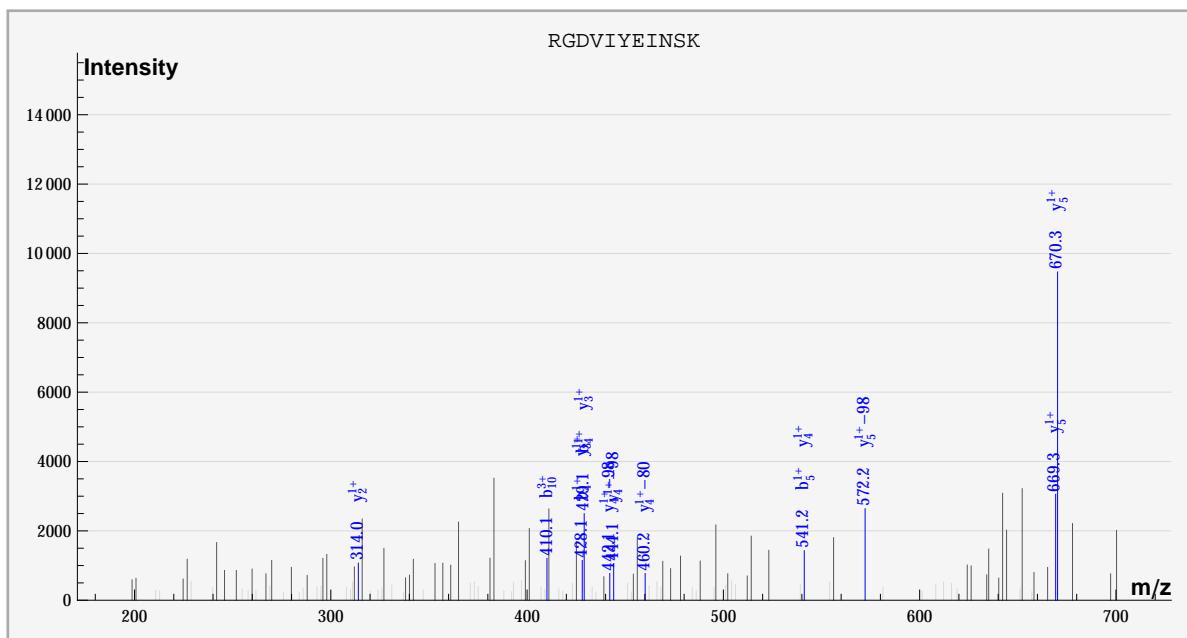
RGDVIYEINSK

#	b	b*	#	y	y*	P	P*
R	1						
G	2		10				
D	3		9				
V	4	✓	8				
I	5	✓	7				
Y	6		6				
E	7		5	✓	✓		
I	8		4	✓	✓		
N	9		3	✓			
S	10	✓	2	✓			
K	11		1				

R   G   D   V   I   Y   E   I   N   S   K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.1062 100. ? 1506.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::PHOS::%sample_1%cmpd_244

|		#	b	b*	#	y	y*	P	P*
R		1							
G		2			10				
D		3	✓		9		✓		
V		4	✓		8				
I		5	✓		7	✓			
Y		6			6		✓		
E		7			5	✓	✓		
I		8	✓		4	✓	✓		
N		9			3	✓	✓		
S		10	✓		2	✓			
K		11	✓		1				

R G D V I Y E I N S K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.69456 100. ? 1518.
S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_254
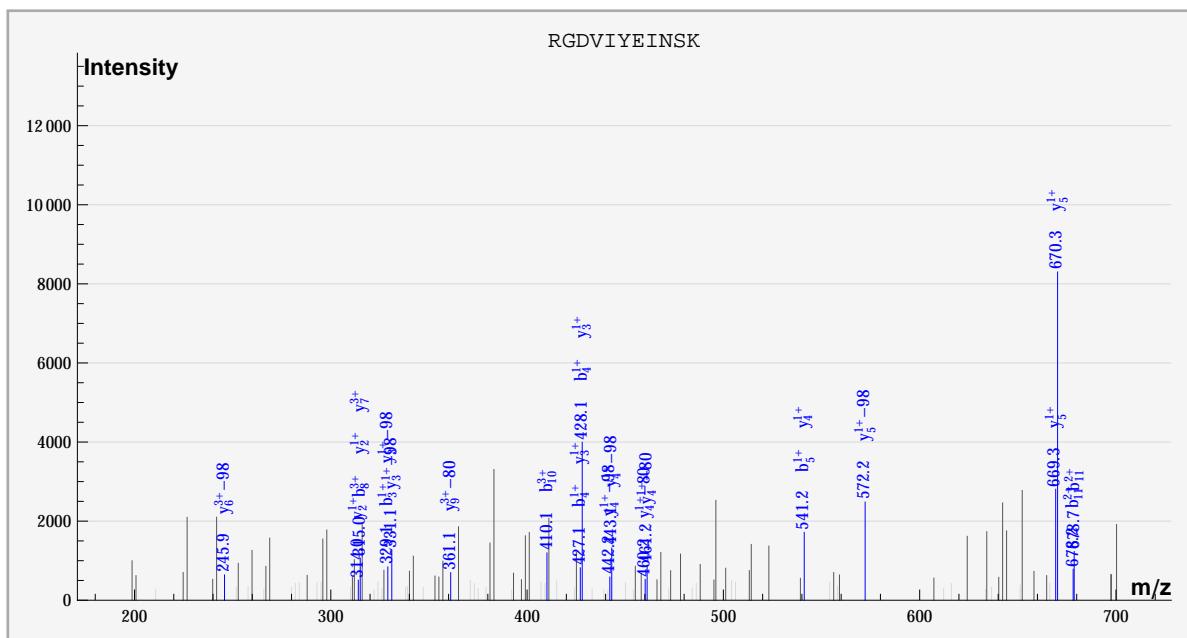
#	b	b*	#	y	y*	P	P*
R	1						
G	2		10				
D	3	✓	9		✓		
V	4	✓	8				
I	5	✓	7	✓			
Y	6		6		✓		
E	7		5	✓	✓		
I	8	✓	4	✓	✓		
N	9		3	✓	✓		
S	10	✓	2	✓			
K	11	✓	1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 6.40558 100. ? 1530.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_264
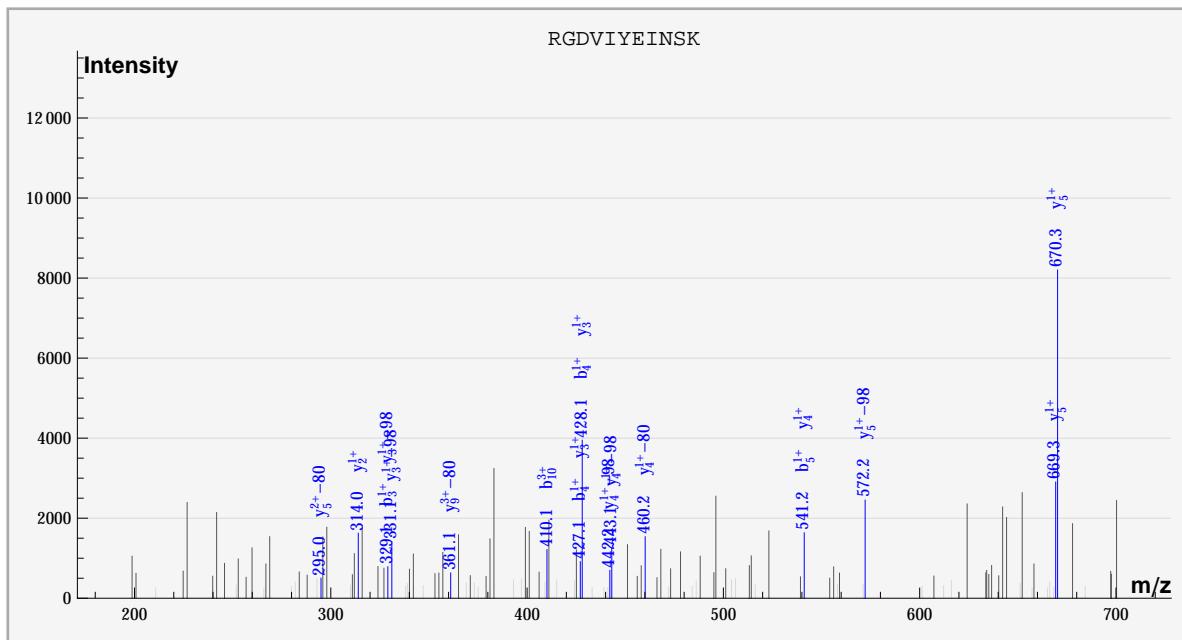
♯	b	b*	♯	y	y*	P	P*
R	1						
G	2			10			
D	3	✓		9		✓	
V	4	✓		8			
I	5	✓		7			
Y	6			6			
E	7			5	✓	✓	
I	8			4	✓	✓	
N	9			3	✓	✓	
S	10	✓		2	✓		
K	11			1			

R   G   D   V   I   Y   E   I   N   S   K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 6.06783 100. ? 1542.
S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_274

♯	b	b*	♯	y	y*	P	P*
R	1						
G	2		10				
D	3		9		✓		
V	4	✓	8	✓			
I	5	✓	7		✓		
Y	6		6				
E	7		5	✓	✓		
I	8		4	✓	✓		
N	9		3	✓	✓		
S	10	✓	2	✓			
K	11		1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 6.10342 100. ? 1554.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_284

♯	b	b*	♯	y	y*	P	P*
R	1						
G	2			10			
D	3			9		✓	
V	4	✓		8	✓		
I	5	✓		7		✓	
Y	6			6			
E	7			5	✓	✓	
I	8			4	✓	✓	
N	9			3	✓	✓	
S	10	✓		2	✓		
K	11	✓		1			
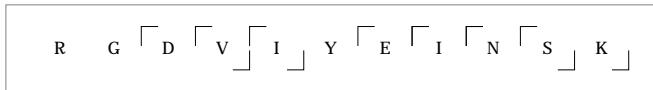
R G D V I Y E I N S K

dbValid true GSADMK PHOS(1) 1. 689. −0.762855 5.08652 100. ? 1554.
S_Acido_new%gi|68568495|gb|AAY81424.1| GSADMK%::PHOS:::::%sample_3%cmpd_293
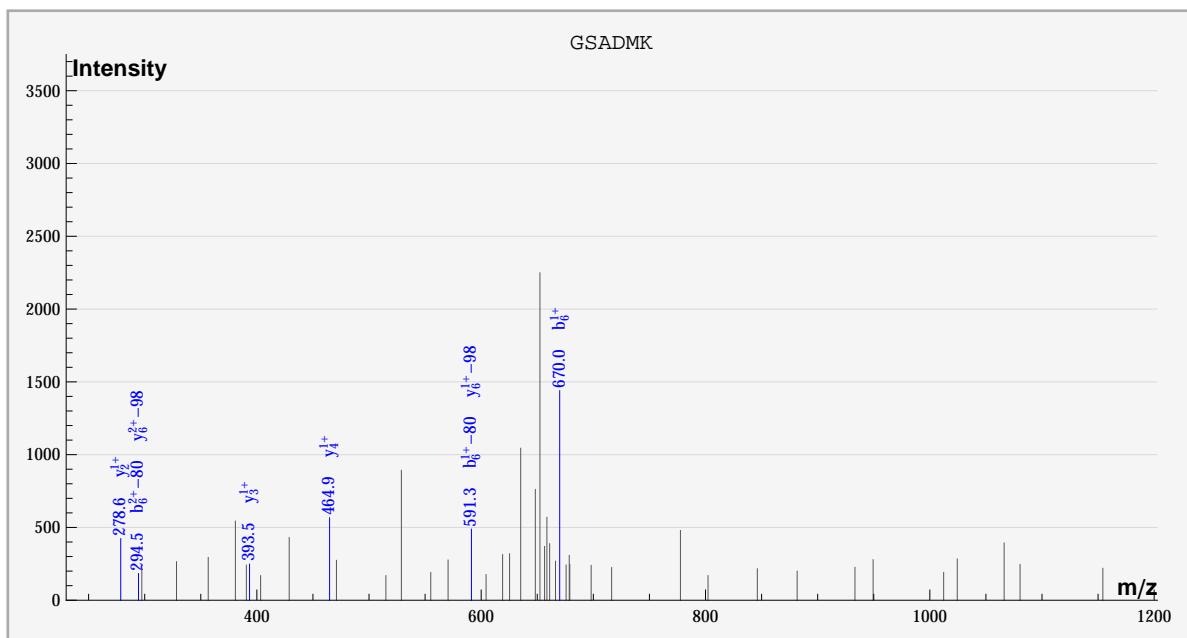
	#	b	b*	#	y	y*	P	P*
G	1							✓
S	2			5				
A	3			4	✓			
D	4			3	✓			
M	5			2	✓			
K	6	✓	✓	1				

G   S   A   D   M   K
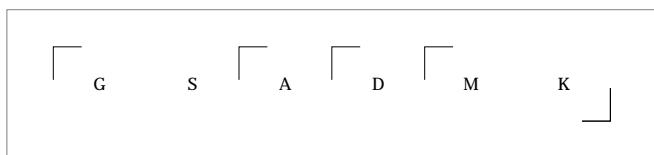
dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 6.13236 100. ? 1566.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_294

♯	b	b*	♯	y	y*	P	P*
R	1			10				
G	2			10				
D	3			9		✓		
V	4	✓		8	✓			
I	5	✓		7		✓		
Y	6			6				
E	7			5	✓	✓		
I	8			4	✓	✓		
N	9			3	✓	✓		
S	10	✓		2	✓			
K	11	✓		1				

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.75067 100. ? 1578.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::PHOS::%sample_1%cmpd_305

	#	b	b*	#	y	y*	P	P*
R	1							
G	2			10				
D	3			9				
V	4	✓		8	✓			
I	5	✓		7		✓		
Y	6			6				
E	7			5	✓	✓		
I	8			4	✓	✓		
N	9			3	✓	✓		
S	10	✓	✓	2	✓			
K	11	✓		1				

R G D V I Y E I N S K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.32705 100. ? 1602.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::PHOS::%sample_1%cmpd_325

#	b	b*	#	y	y*	P	P*
R	1							
G	2			10				
D	3			9		✓		
V	4	✓		8	✓			
I	5	✓		7		✓		
Y	6			6				
E	7			5	✓	✓		
I	8			4	✓	✓		
N	9			3	✓	✓		
S	10	✓		2	✓			
K	11	✓		1				

R   G ⌐D ⌐V ⌐I Y ⌐E ⌐I ⌐N ⌐S ⌐K

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.32087 100. ? 1626.
    S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%:::::::::::PHOS::%sample_1%cmpd_346
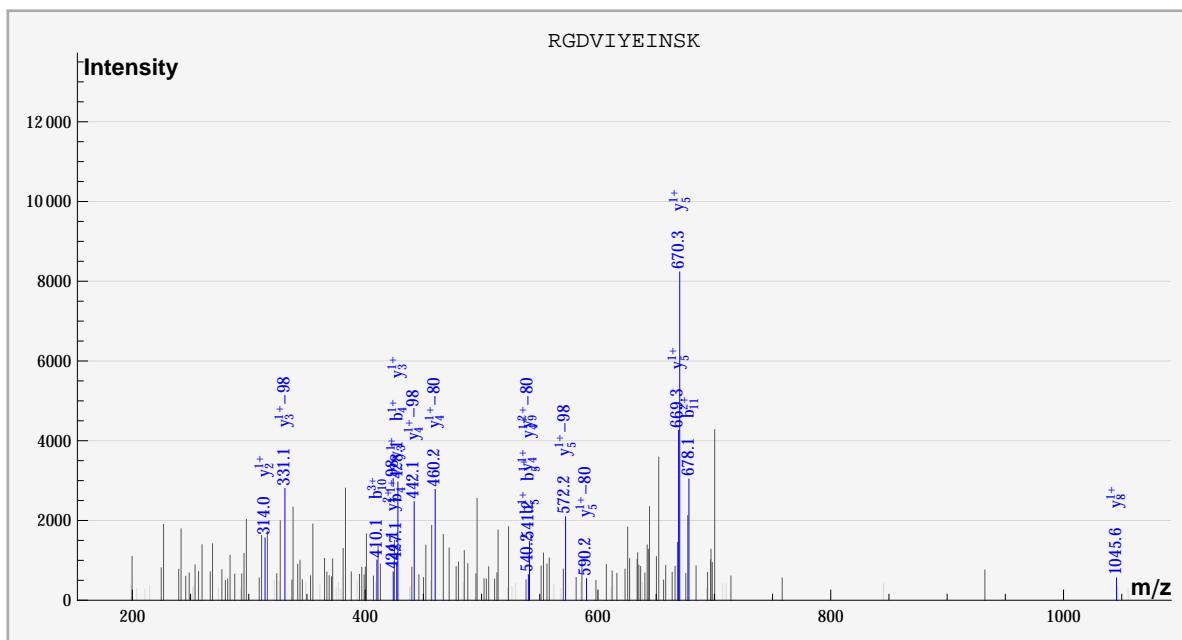
♯	b	b*	♯	y	y*	P	P*
R	1						
G	2			10			
D	3			9		✓	
V	4	✓		8	✓		
I	5	✓		7		✓	
Y	6			6			
E	7			5	✓	✓	
I	8			4	✓	✓	
N	9			3	✓	✓	
S	10	✓		2	✓		
K	11	✓		1			

dbValid true RGDVIYEINSK PHOS(1) 2. 689. −1.67334 5.6005 100. ? 1638.
  S_Acido_new%gi|68567452|gb|AAY80381.1| RGDVIYEINSK%::::::::::PHOS::%sample_1%cmpd_356
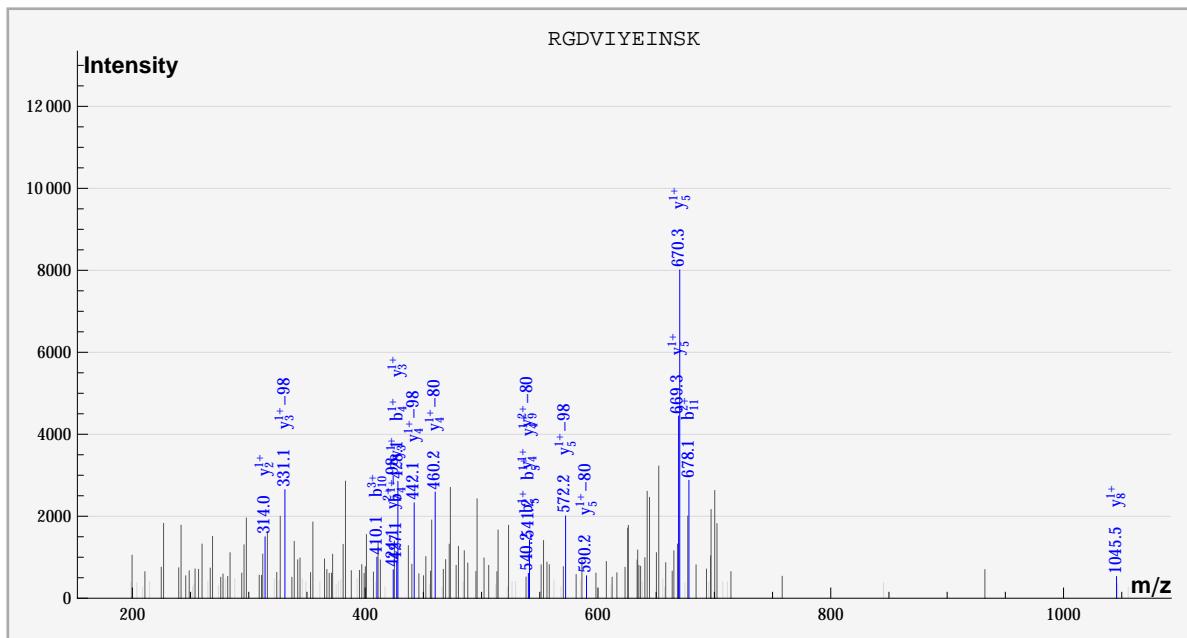
	♯	b	b*	♯	y	y*	P	P*
R	1							
G	2			10				
D	3			9		✓		
V	4	✓		8	✓			
I	5	✓		7		✓		
Y	6			6				
E	7			5	✓	✓		
I	8			4	✓	✓		
N	9			3	✓	✓		
S	10	✓		2	✓			
K	11	✓		1				

dbValid true DIVTGLGGVTVGK PHOS(2) 2. 689. −0.682908 5.29276 100. ? 2136.
S_Acido_new%gi|68568609|gb|AAY81538.1| DIVTGLGGVTVGK%::::PHOS:::::::PHOS::::%sample_3%cmpd_823
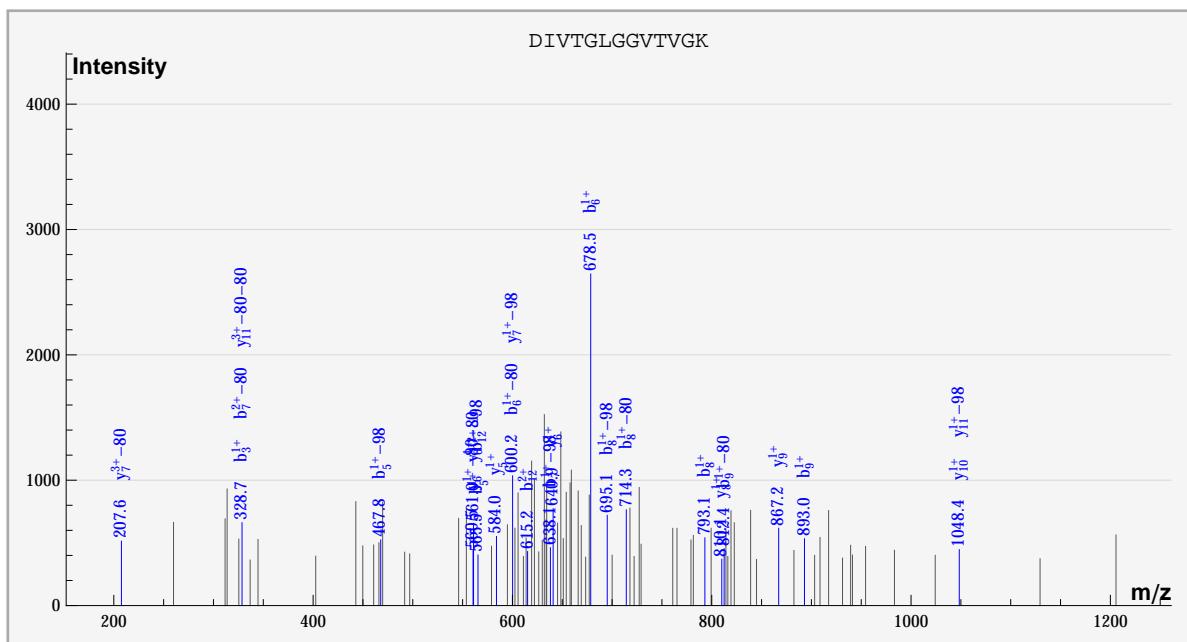
	#	b	b*	#	y	y*	P	P*
D	1							
I	2			12				
V	3	✓		11		✓		
T	4			10	✓			
G	5	✓	✓	9	✓			
L	6	✓	✓	8	✓			
G	7		✓	7		✓		
G	8	✓	✓	6	✓	✓		
V	9	✓	✓	5	✓			
T	10			4				
V	11			3				
G	12	✓	✓	2				
K	13			1				

D I ⌐V⌐ T ⌐G⌐ L ⌐G⌐ G ⌐V⌐ T V G⌐ K

dbValid   true   RTWGGVIGISPR   PHOS(1)   2.   689.   0.853172   5.3951   100.   ?   2712.
S_Acido_new%gi|68568658|gb|AAY81587.1| RTWGGVIGISPR%::::::::::PHOS:::%sample_3%cmpd_1353

RTWGGVIGISPR
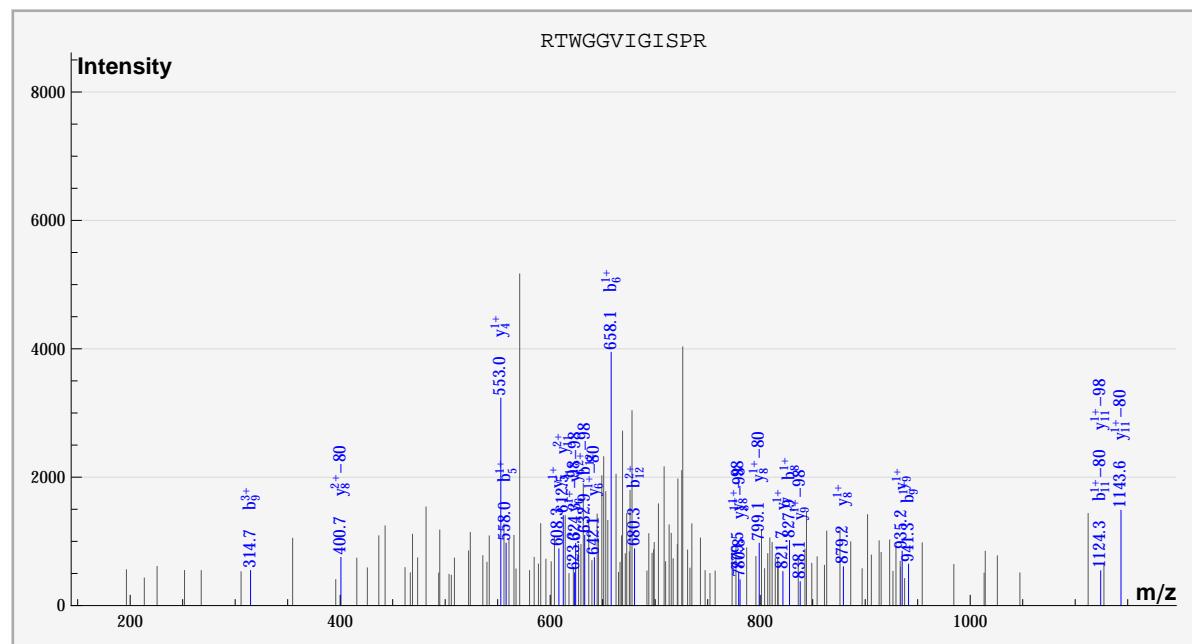
	♯	b	b*		♯	y	y*		P	P*
R	1									
T	2				11	✓	✓			
W	3				10					
G	4				9	✓	✓			
G	5	✓			8	✓	✓			
V	6	✓			7	✓				
I	7				6		✓			
G	8	✓			5	✓				
I	9	✓			4	✓				
S	10				3					
P	11		✓		2					
R	12	✓	✓		1					

dbValid true RARSLISNINR PHOS(1) 2. 689. 1.36699 5.46944 100. ? 3174.
  S_Acido_new%gi|68567167|gb|AAY80096.1| RARSLISNINR%::::PHOS::::::::%sample_3%cmpd_1773
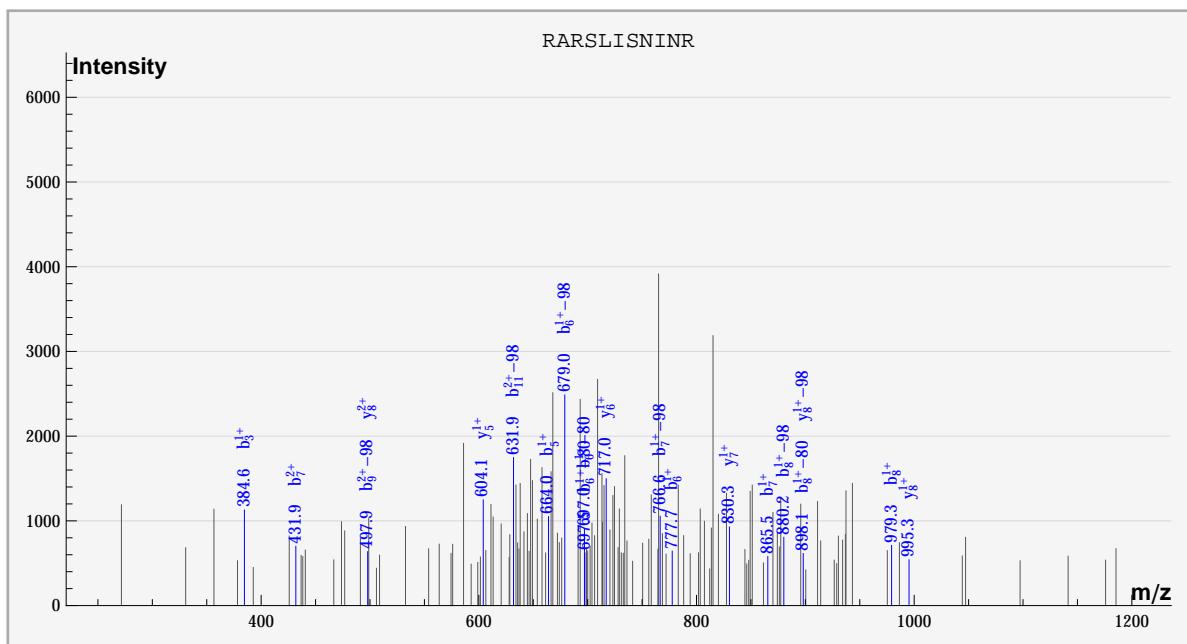
♯	b	b*	♯	y	y*	P	P*
R	1						
A	2			10			
R	3	✓		9			
S	4			8	✓	✓	
L	5	✓		7	✓		
I	6	✓	✓	6	✓		
S	7	✓	✓	5	✓		
N	8	✓	✓	4			
I	9		✓	3			
N	10			2			
R	11		✓	1			

R A R⌐S⌐L⌐I⌐S N I N R
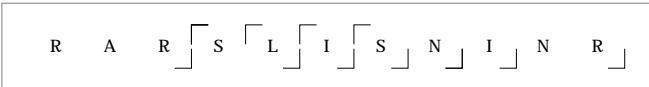
dbValid true KTGKGFYEYK PHOS(2) 2. 691. −0.214563 5.45997 100. ? 1506.
 S_Acido_new%gi|68567557|gb|AAY80486.1| KTGKGFYEYK%::PHOS:::::PHOS::::%sample_0%cmpd_243

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K	1							✓
T	2	✓		9				
G	3			8				
K	4			7				
G	5			6		✓		
F	6		✓	5	✓			
Y	7		✓	4	✓	✓		
E	8		✓	3	✓			
Y	9	✓		2	✓			
K	10	✓	✓	1				

K T G K G F Y E Y K

dbValid   true SQVFEGKSPNK PHOS(2) 2. 691. −0.216573 5.05932 100. ? 1938.
S_Acido_new%gi|68567066|gb|AAY79995.1| SQVFEGKSPNK%:PHOS:::::::PHOS::::%sample_2%cmpd_600

	♯	b	b*	♯	y	y*	P	P*
S	1			10				
Q	2			10				
V	3	✓	✓	9	✓	✓		
F	4	✓	✓	8				
E	5	✓	✓	7				
G	6			6	✓	✓		
K	7			5	✓	✓		
S	8			4	✓	✓		
P	9			3	✓			
N	10			2	✓			
K	11	✓		1				

S   Q   V   F   E   G   K   S   P   N   K
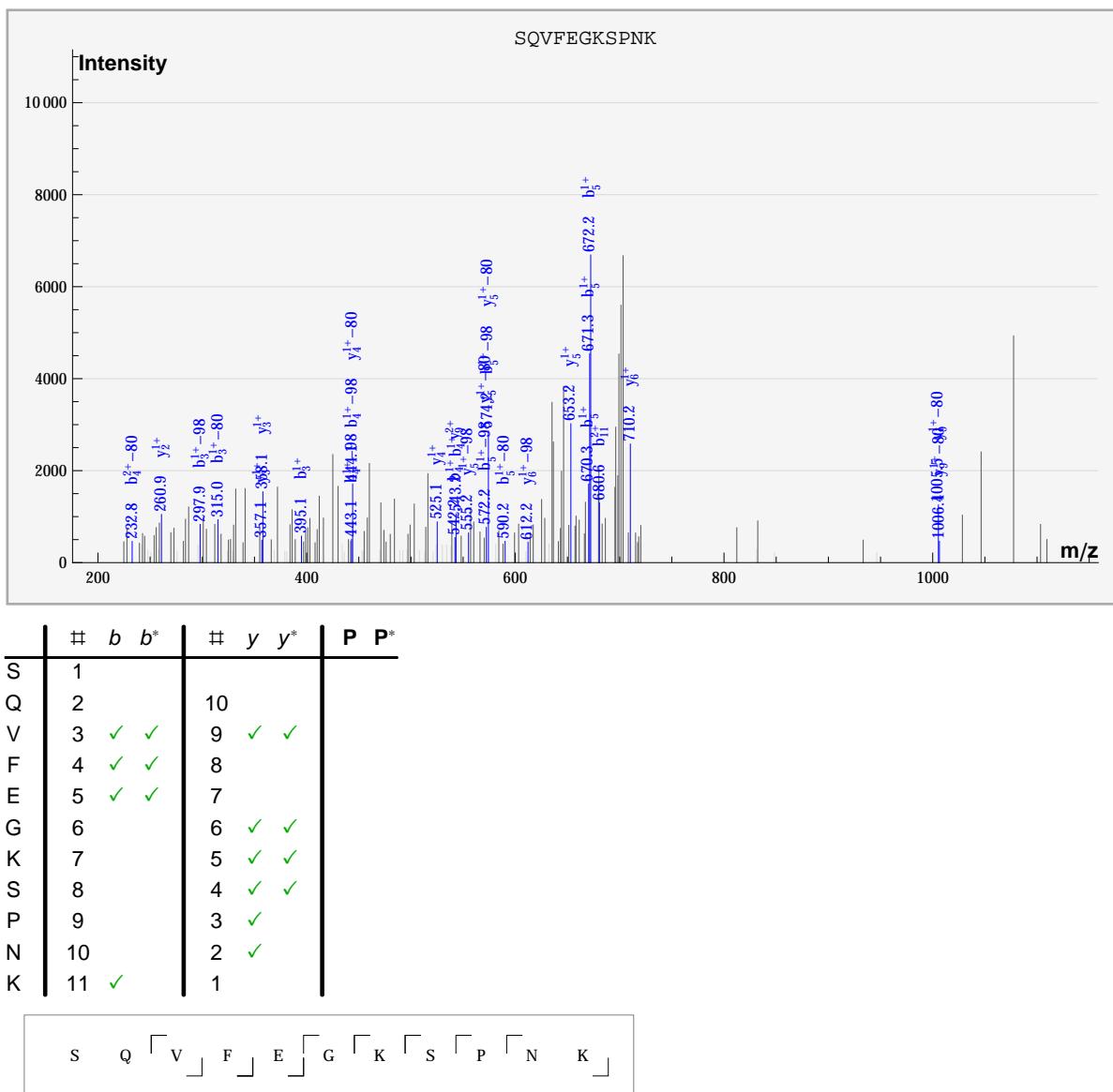
dbValid true SQVFEGKSPNK PHOS(2) 2. 691. −0.216573 5.24735 100. ? 2010.
  S_Acido_new%gi|68567066|gb|AAY79995.1| SQVFEGKSPNK%:PHOS:::::::PHOS::::%sample_2%cmpd_662

	♯	b	b*	♯	y	y*	P	P*
S	1			10				
Q	2			10				
V	3	✓		9		✓		
F	4	✓	✓	8				
E	5	✓	✓	7				
G	6			6	✓			
K	7			5	✓	✓		
S	8			4	✓			
P	9			3	✓			
N	10			2	✓			
K	11			1				

dbValid true YFTFSITITK PHOS(2) 2. 691. −0.201983 4.9999 100. ? 4392.
  S_Acido_new%gi|68567815|gb|AAY80744.1| YFTFSITITK%:::::PHOS::::PHOS::%sample_0%cmpd_2872
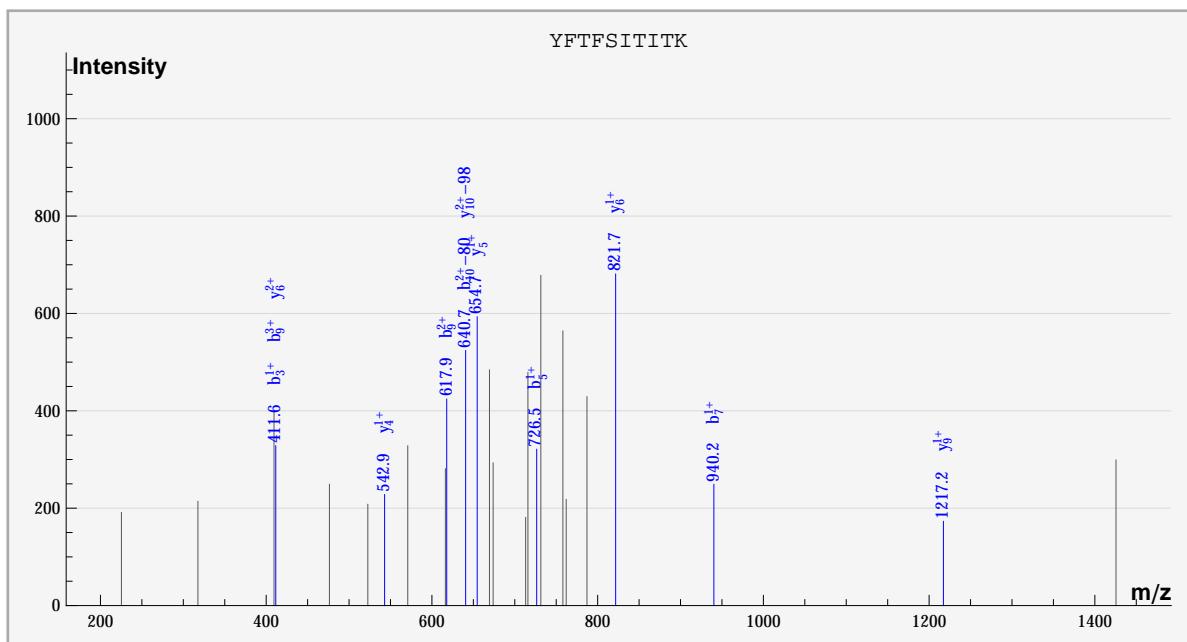
	♯	b	b^*	♯	y	y^*	P	P*
Y	1							✓
F	2			9	✓			
T	3	✓		8				
F	4			7				
S	5	✓		6	✓			
I	6			5	✓			
T	7	✓		4	✓			
I	8			3				
T	9	✓		2				
K	10		✓	1				

dbValid true KTGKGFYEYK PHOS(2) 2. 692. −1.21456 5.1436 100. ? 1638.
    S_Acido_new%gi|68567557|gb|AAY80486.1| KTGKGFYEYK%::PHOS:::::::PHOS::%sample_0%cmpd_364
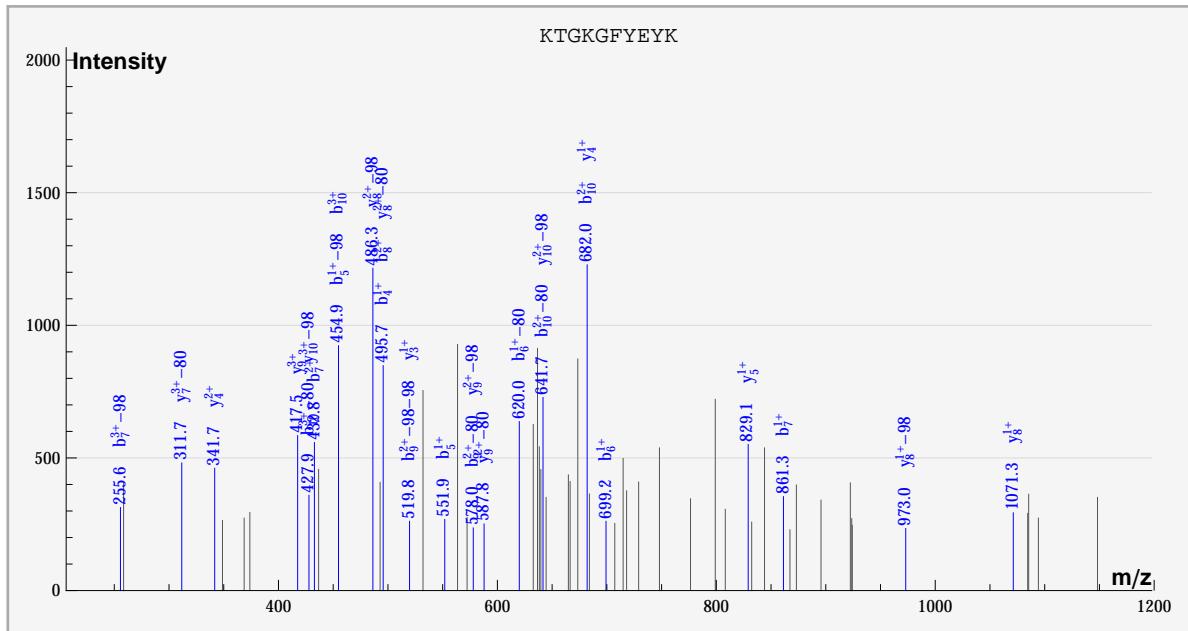
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K	1							✓
T	2			9	✓	✓		
G	3			8	✓	✓		
K	4	✓		7		✓		
G	5	✓	✓	6				
F	6	✓	✓	5	✓			
Y	7	✓	✓	4	✓			
E	8	✓		3	✓			
Y	9		✓	2				
K	10	✓	✓	1				
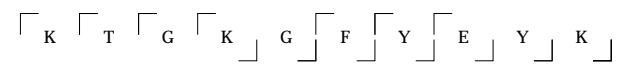
dbValid true YLTLPYNTR PHOS(3) 2. 692. −1.24451 5.09212 100. ? 2466.
   S_Acido_new%gi|68567020|gb|AAY79949.1| YLTLPYNTR%:PHOS::PHOS:::::PHOS::%sample_0%cmpd_1115
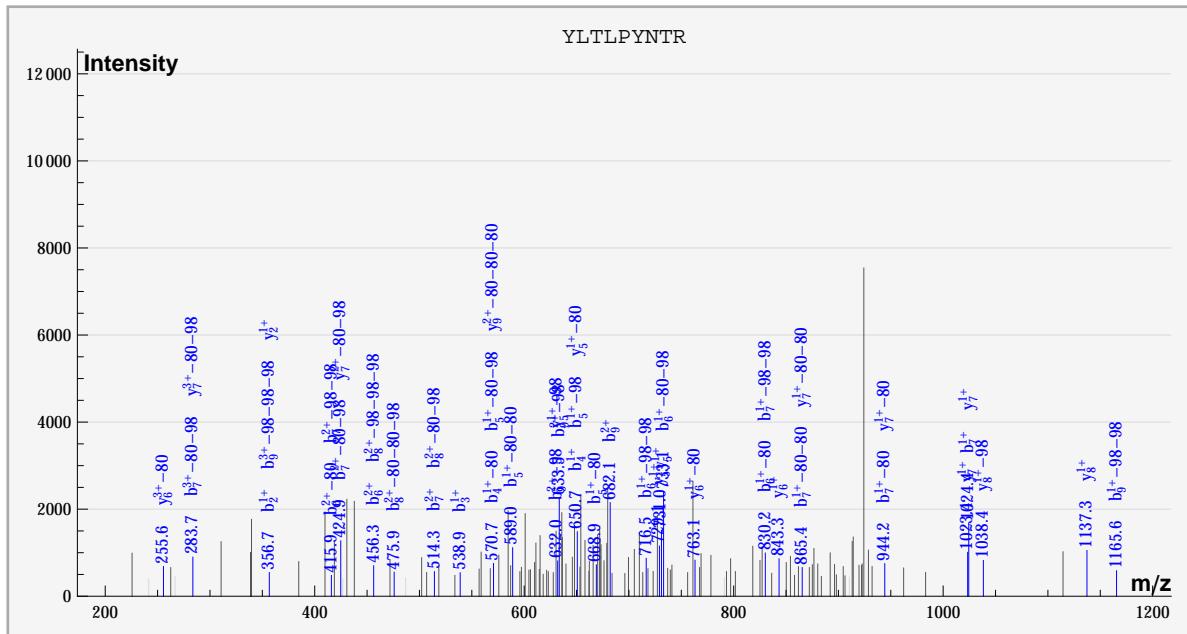
♯	b	b*	♯	y	y*	P	P*
Y	1							✓
L	2	✓		8	✓	✓		
T	3	✓		7	✓	✓		
L	4	✓	✓	6	✓	✓		
P	5		✓	5	✓	✓		
Y	6	✓	✓	4				
N	7	✓	✓	3				
T	8		✓	2	✓			
R	9	✓	✓	1				
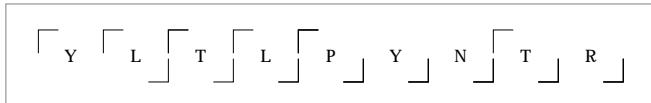
dbValid true SILMINGVDKSK PHOS(1) 2. 692. 0.848912 5.01805 100. ? 2826.
S_Acido_new%gi|68568273|gb|AAY81202.1| SILMINGVDKSK%::::::::::::PHOS::%sample_0%cmpd_1446

SILMINGVDKSK
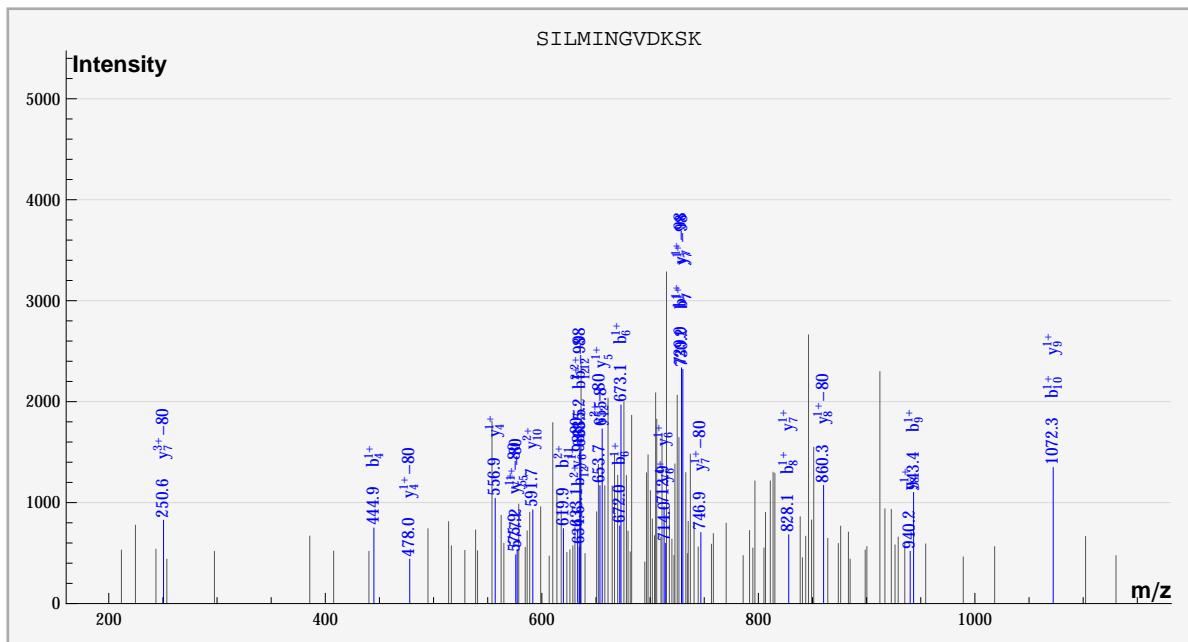
	♯	b	b*	♯	y	y*	P	P*
S	1							✓
I	2			11				
L	3			10	✓			
M	4	✓		9	✓			
I	5			8	✓	✓		
N	6	✓		7	✓	✓		
G	7	✓		6	✓	✓		
V	8	✓		5	✓	✓		
D	9	✓		4	✓	✓		
K	10	✓		3				
S	11	✓		2				
K	12		✓	1				

S I L M I N G V D K S K

dbValid true YRNYYVLR PHOS(3) 2. 693. 0.755822 5.00827 100. ? 1578.
S_Acido_new%gi|68567852|gb|AAY80781.1| YRNYYVLR%:PHOS:::PHOS:PHOS::::%sample_0%cmpd_309
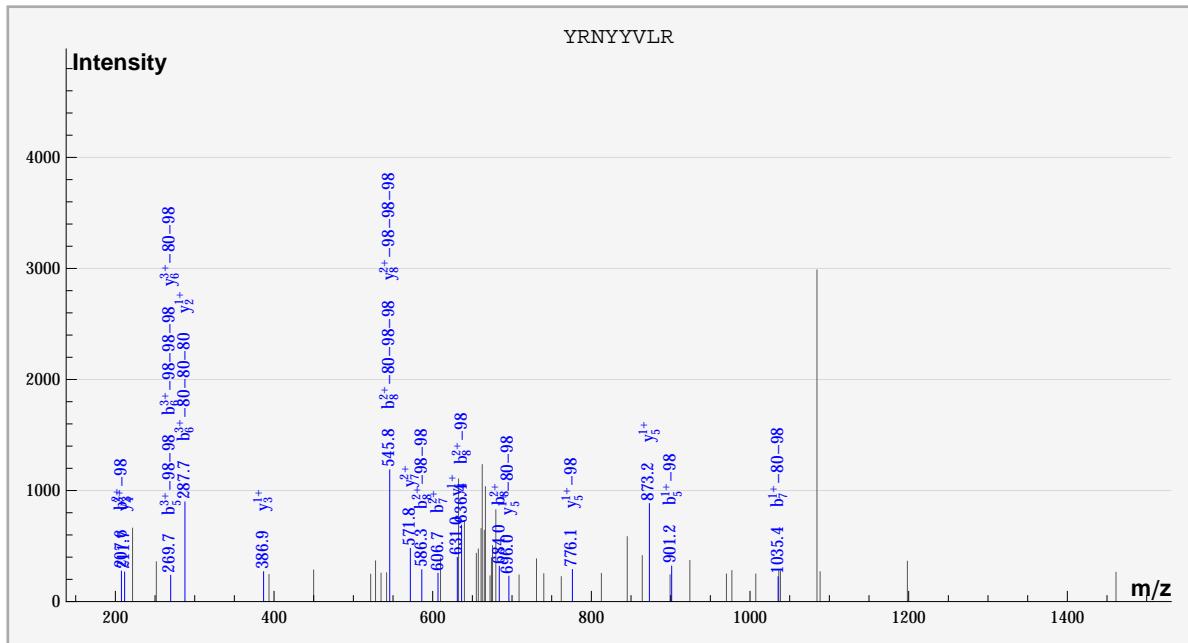
♯	b	b*	♯	y	y*	P	P*
Y	1							✓
R	2			7	✓			
N	3		✓	6		✓		
Y	4		✓	5	✓	✓		
Y	5		✓	4	✓			
V	6		✓	3	✓			
L	7	✓	✓	2	✓			
R	8	✓	✓	1				
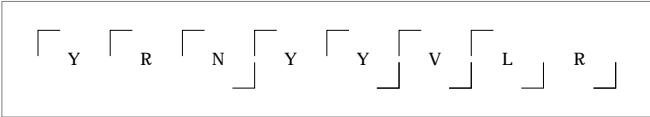
dbValid true YRNYYVLR PHOS(3) 2. 693. 0.755822 4.935 100. ? 1590.
  S_Acido_new%gi|68567852|gb|AAY80781.1| YRNYYVLR%:PHOS:::PHOS:PHOS::::%sample_0%cmpd_321

	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
R	2			7	✓			
N	3			6	✓			
Y	4	✓	✓	5	✓	✓		
Y	5		✓	4	✓			
V	6	✓	✓	3				
L	7	✓	✓	2	✓			
R	8	✓	✓	1				

dbValid true GPLATR PHOS(1) 1. 693. 1.32834 5.36315 100. ? 2742.
S_Acido_new%gi|68567124|gb|AAY80053.1| GPLATR%:::::PHOS::%sample_0%cmpd_1370
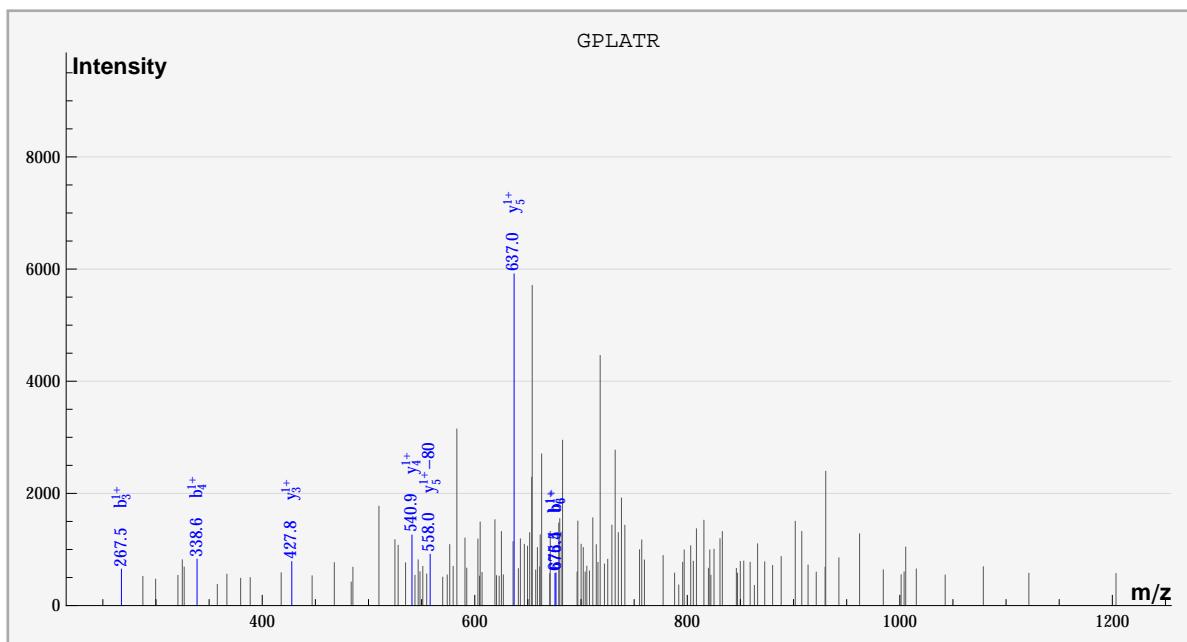
	♯	b	b*	♯	y	y*	P	P*
G	1							
P	2			5	✓	✓		
L	3	✓		4	✓			
A	4	✓		3	✓			
T	5			2				
R	6	✓		1				
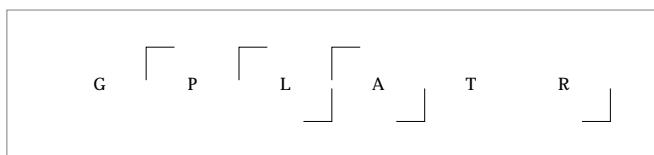
dbValid true REGDEFVVKTK PHOS(1) 2. 694. 0.334477 5.11619 100. ? 2172.
S_Acido_new%gi|68567364|gb|AAY80293.1| REGDEFVVKTK%::::::::::PHOS::%sample_0%cmpd_851
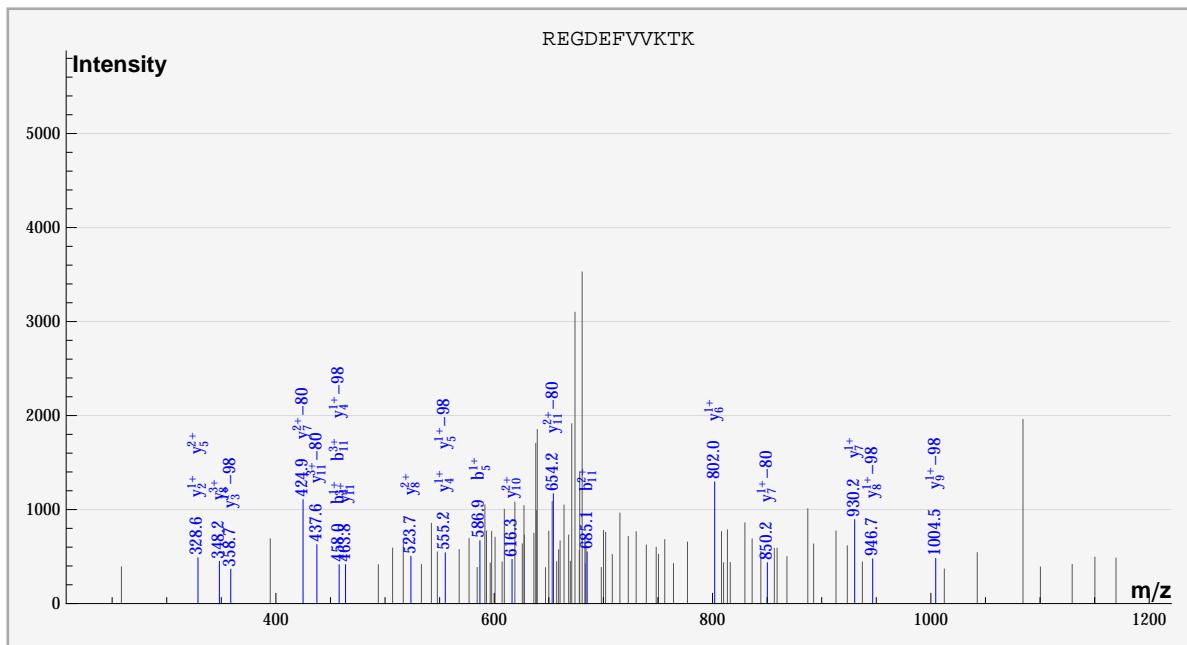
♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
R	1					✓	✓
E	2		10	✓			
G	3		9		✓		
D	4	✓	8	✓	✓		
E	5	✓	7	✓	✓		
F	6		6	✓			
V	7		5	✓	✓		
V	8		4	✓	✓		
K	9		3		✓		
T	10		2	✓			
K	11	✓	1				

dbValid true VETYSGGMRRR PHOS(1) 2. 695. 1.31611 5.13822 100. ? 2526.
S_Acido_new%gi|68567435|gb|AAY80364.1| VETYSGGMRRR%:::PHOS:::::::::%sample_0%cmpd_1099

VETYSGGMRRR

	♯	b	b*	♯	y	y*	P	P*
V	1							✓
E	2			10				
T	3			9				
Y	4			8	✓			
S	5	✓	✓	7	✓			
G	6	✓	✓	6	✓			
G	7		✓	5	✓			
M	8	✓		4	✓			
R	9			3				
R	10			2				
R	11		✓	1				
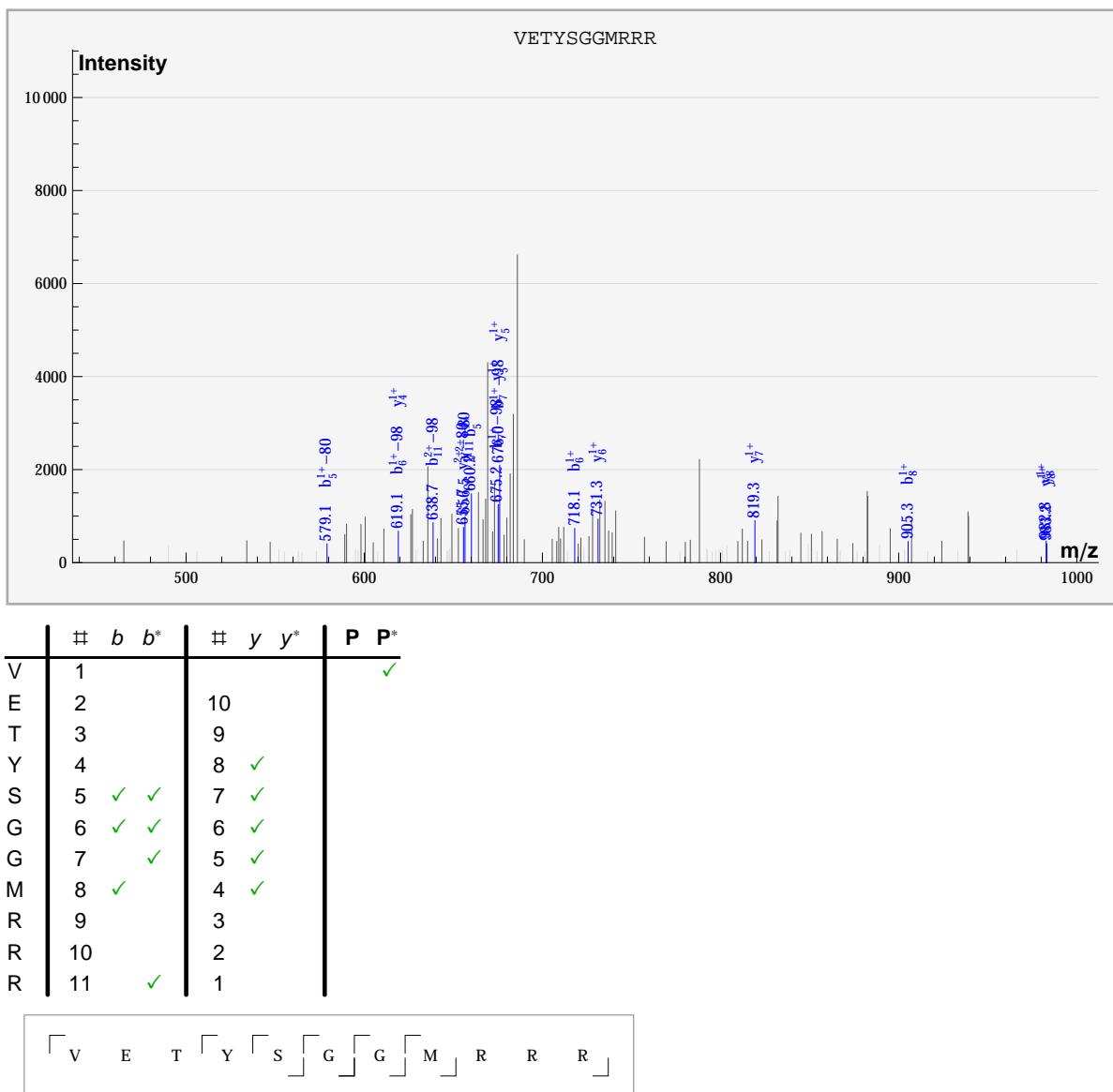
dbValid true YTNTYVTRK PHOS(3) 2. 695. −1.74943 5.03666 100. ? 3792.

  S_Acido_new%gi|68566706|gb|AAY79635.1| YTNTYVTRK%:PHOS:PHOS::PHOS::::::%sample_2%cmpd_2190
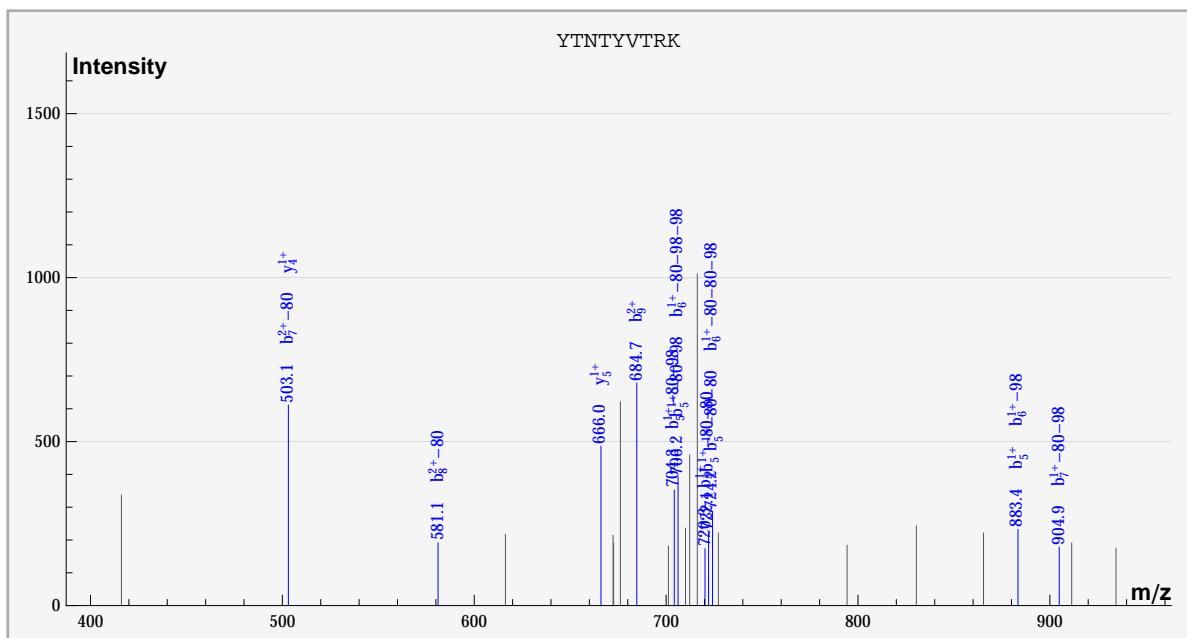
♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1						
T	2			8			
N	3			7			
T	4	✓		6			
Y	5	✓	✓	5	✓		
V	6		✓	4	✓		
T	7		✓	3			
R	8		✓	2			
K	9	✓		1			
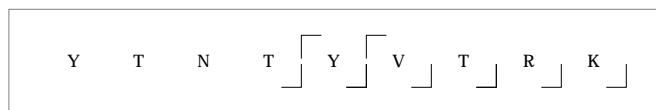
dbValid true DPEKSFELTSR PHOS(1) 2. 696. −1.1917 5.09345 100. ? 2892.
S_Acido_new%gi|68568518|gb|AAY81447.1| DPEKSFELTSR%::::::::::PHOS::%sample_0%cmpd_1505
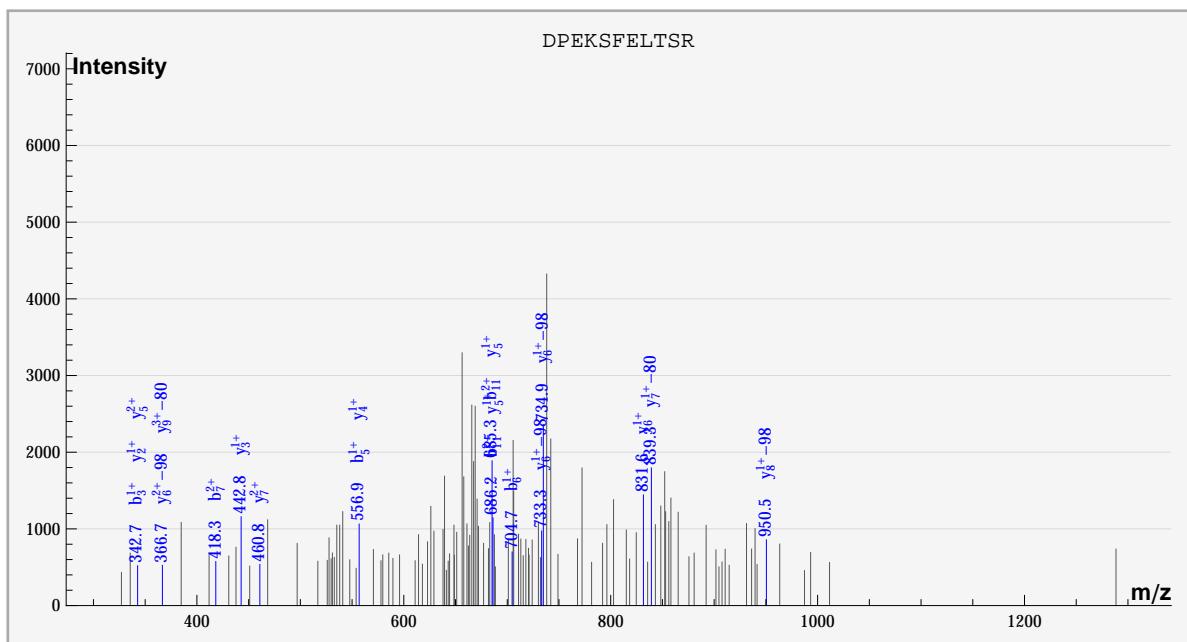
	♯	b	b*	♯	y	y*	P	P*
D	1							
P	2			10				
E	3	✓		9		✓		
K	4			8		✓		
S	5	✓		7	✓	✓		
F	6	✓		6	✓	✓		
E	7	✓		5	✓			
L	8			4	✓			
T	9			3	✓			
S	10			2	✓			
R	11	✓		1				

D   P   E   K   S   F   E   L   T   S   R

dbValid true ETIYSGGNWER PHOS(1) 2. 698. −1.71501 5.00699 100. ? 1728.
S_Acido_new%gi|68566944|gb|AAY79873.1| ETIYSGGNWER%::::PHOS:::::::%sample_0%cmpd_445

	#	b	b^*	#	y	y^*	P	P*
E	1							✓
T	2			10		✓		
I	3			9		✓		
Y	4	✓		8		✓		
S	5	✓	✓	7	✓			
G	6		✓	6	✓			
G	7		✓	5	✓			
N	8		✓	4	✓			
W	9		✓	3				
E	10		✓	2	✓			
R	11		✓	1				

dbValid true EIIIYFLLYK PHOS(1) 2. 698. −0.127823 5.12482 100. ? 2064.
    S_Acido_new%gi|68567730|gb|AAY80659.1| EIIIYFLLYK%:::::PHOS::::::%sample_0%cmpd_755
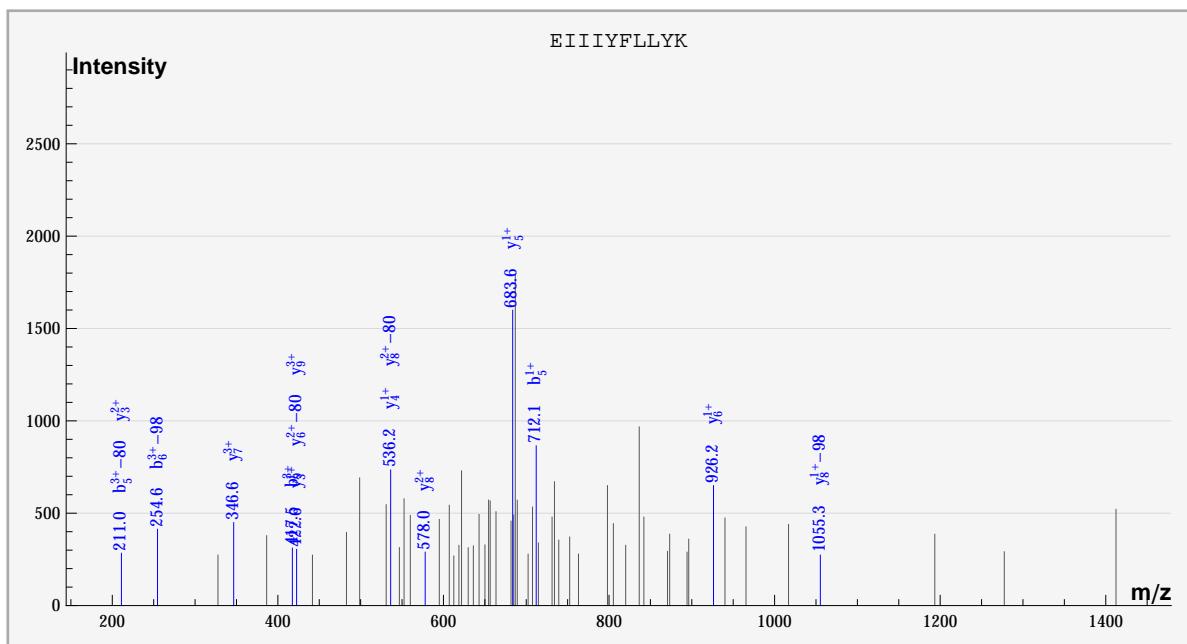
	♯	b	b*	♯	y	y*	P	P*
E	1							
I	2			9	✓			
I	3			8	✓	✓		
I	4			7	✓			
Y	5	✓	✓	6	✓	✓		
F	6		✓	5	✓			
L	7			4	✓			
L	8			3	✓			
Y	9	✓		2				
K	10			1				

dbValid true TDTGYKNSLR PHOS(3) 2. 699. −1.25689 5.12899 100. ? 1434.
   S_Acido_new%gi|68567901|gb|AAY80830.1| TDTGYKNSLR%:PHOS::::PHOS:::PHOS:::%sample_2%cmpd_168
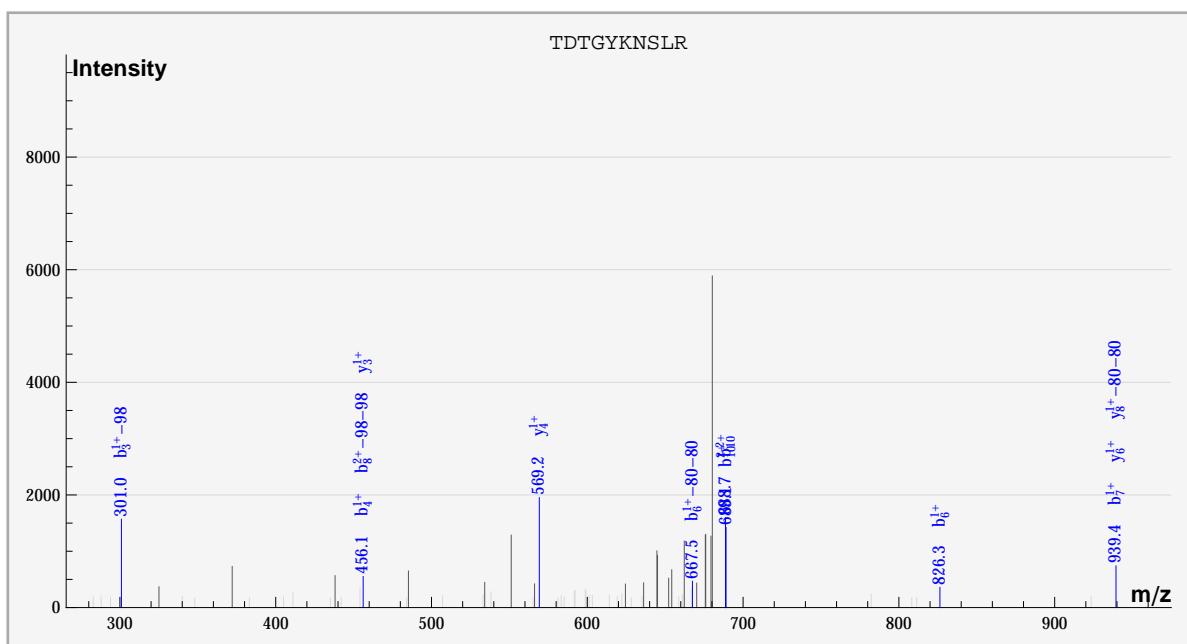
TDTGYKNSLR

	#	b	b*	#	y	y*	P	P*
T	1							
D	2			9				
T	3		✓	8		✓		
G	4	✓		7				
Y	5			6	✓			
K	6	✓	✓	5				
N	7	✓		4	✓			
S	8		✓	3	✓			
L	9			2				
R	10	✓		1				

T D T G Y K N S L R

dbValid true TDTGYKNSLR PHOS(3) 2. 699. −1.25689 5.31195 100. ? 1446.
S_Acido_new%gi|68567901|gb|AAY80830.1| TDTGYKNSLR%:PHOS::::PHOS:::PHOS:::%sample_2%cmpd_177

	#	b	b*	#	y	y*	P	P*
T	1							
D	2			9				
T	3		✓	8		✓		
G	4	✓		7				
Y	5			6	✓			
K	6		✓	5				
N	7	✓		4	✓			
S	8		✓	3	✓			
L	9			2				
R	10	✓		1				

dbValid true QKITEFITQK PHOS(2) 2. 699. −0.680353 5.08027 100. ? 1464.
S_Acido_new%gi|68567956|gb|AAY80885.1| QKITEFITQK%::::PHOS::::PHOS:::%sample_2%cmpd_197
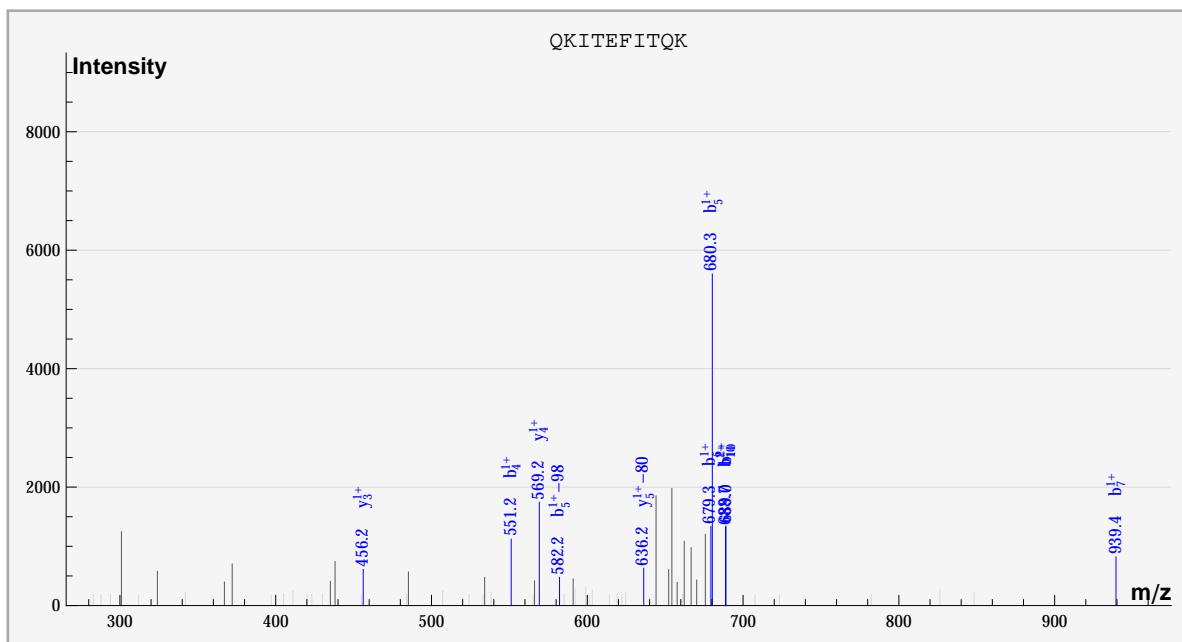
‡	b	b*	‡	y	y*	P	P*
Q	1						
K	2			9			
I	3			8			
T	4	✓		7			
E	5	✓	✓	6			
F	6			5		✓	
I	7	✓		4	✓		
T	8			3	✓		
Q	9			2			
K	10	✓		1			

dbValid true ASLQAVSQLYR PHOS(2) 2. 699. −0.692928 5.44124 100. ? 2562.
S_Acido_new%gi|68566690|gb|AAY79619.1| ASLQAVSQLYR%::PHOS::::::::PHOS::%sample_0%cmpd_1211

ASLQAVSQLYR
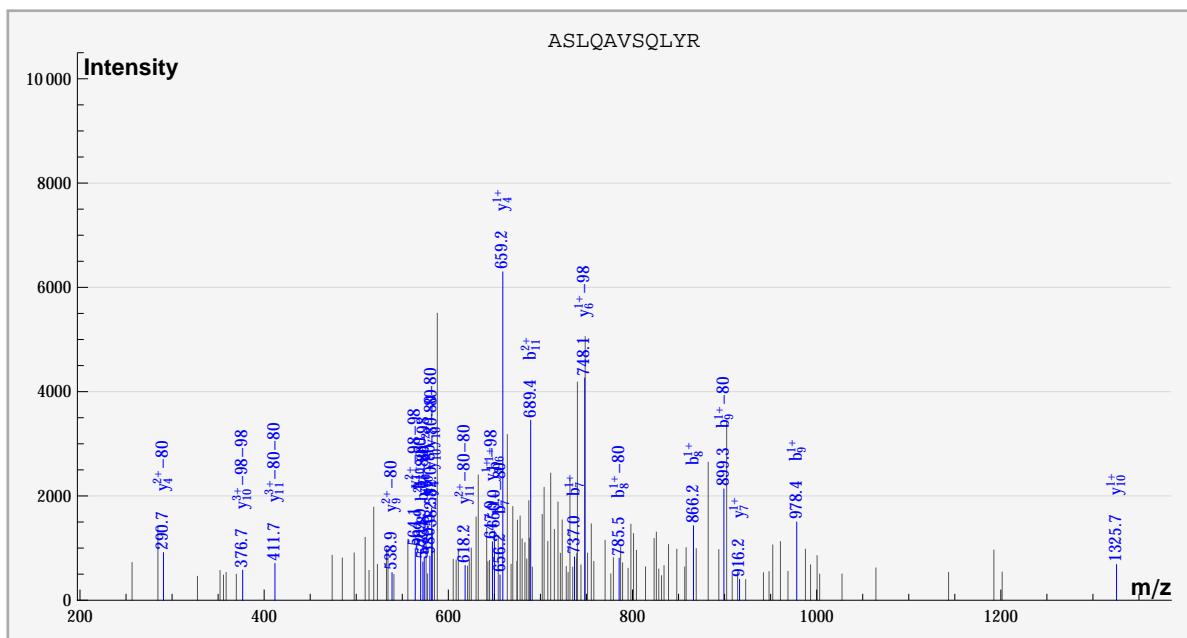
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
A	1							✓
S	2			10	✓	✓		
L	3			9		✓		
Q	4			8				
A	5			7	✓			
V	6	✓	✓	6		✓		
S	7	✓	✓	5		✓		
Q	8	✓	✓	4	✓	✓		
L	9	✓	✓	3				
Y	10		✓	2				
R	11	✓		1				

A S L Q A V S Q L Y R

dbValid true LIGDSL PHOS(1) 1. 699. −1.68324 5.44493 100. ? 2634.
S_Acido_new%gi|68567921|gb|AAY80850.1| LIGDSL%:::::PHOS::%sample_0%cmpd_1277
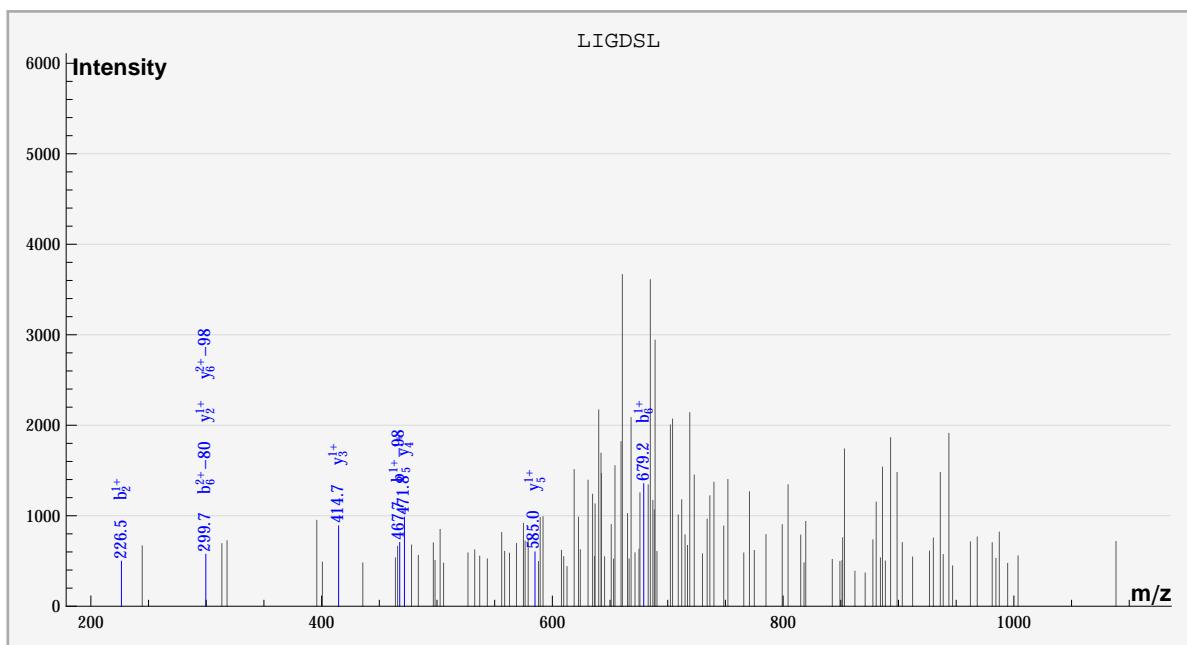
	#	*b*	*b**		#	*y*	*y**		**P**	**P***
L	1									✓
I	2	✓			5	✓				
G	3				4	✓				
D	4				3	✓				
S	5		✓		2	✓				
L	6	✓	✓		1					
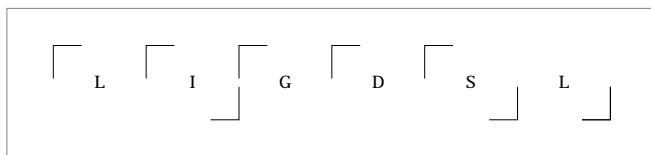
dbValid true RDTLQGISVKK PHOS(2) 2. 701. 1.83599 5.24369 100. ? 3114.
S_Acido_new%gi|68567937|gb|AAY80866.1| RDTLQGISVKK%:::PHOS:::::PHOS::::%sample_3%cmpd_1598

#	b	b*	#	y	y*	P	P*
R	1						
D	2			10	✓		
T	3	✓		9			
L	4	✓		8			
Q	5			7			
G	6		✓	6	✓		
I	7			5	✓	✓	
S	8			4			
V	9			3			
K	10			2			
K	11		✓	1			

dbValid true VVITADAYYRR PHOS(1) 2. 702. 1.84502 4.98492 100. ? 2154.
  S_Acido_new%gi|68567602|gb|AAY80531.1| VVITADAYYRR%::::PHOS::::::::%sample_0%cmpd_822
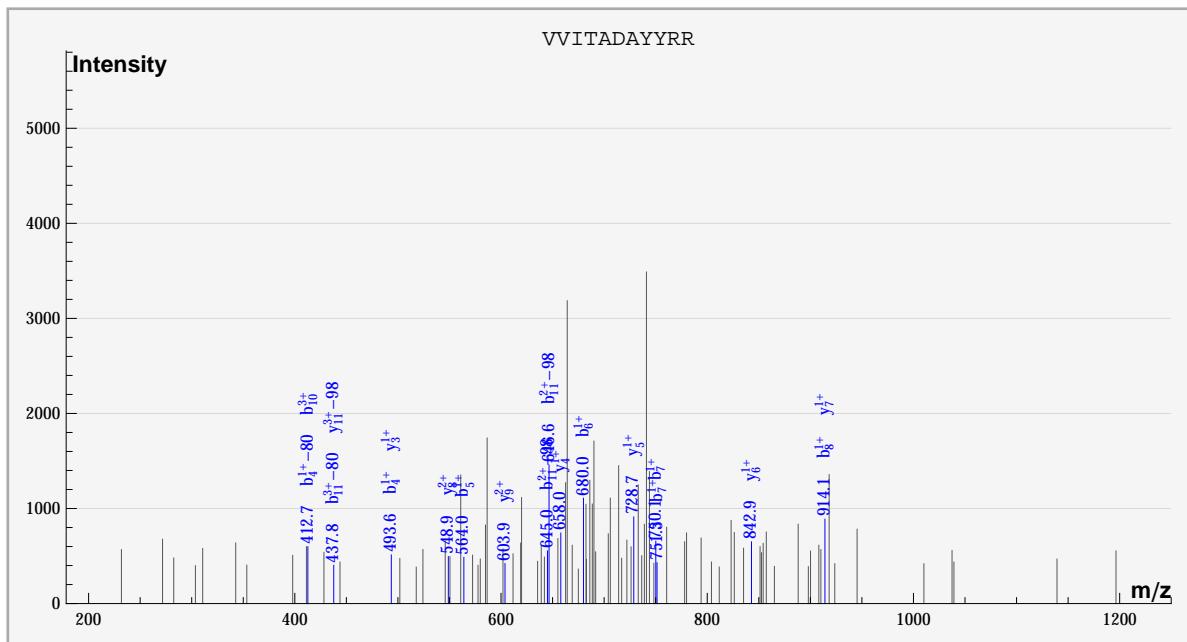
	#	b	b*	#	y	y*	P	P*
V	1							✓
V	2			10				
I	3			9	✓			
T	4	✓	✓	8	✓			
A	5	✓		7	✓			
D	6	✓		6	✓			
A	7	✓		5	✓			
Y	8	✓		4	✓			
Y	9			3	✓			
R	10	✓		2				
R	11		✓	1				

dbValid true QLLSMFSSPSK Oxidation_M(1),PHOS(2) 2. 702. −1.21796 5.61417 100. ? 2166.
 S_Acido_new%gi|68566758|gb|AAY79687.1| QLLSMFSSPSK%::::PHOS:Oxidation_M:::::PHOS::%sample_3%cmpd_787
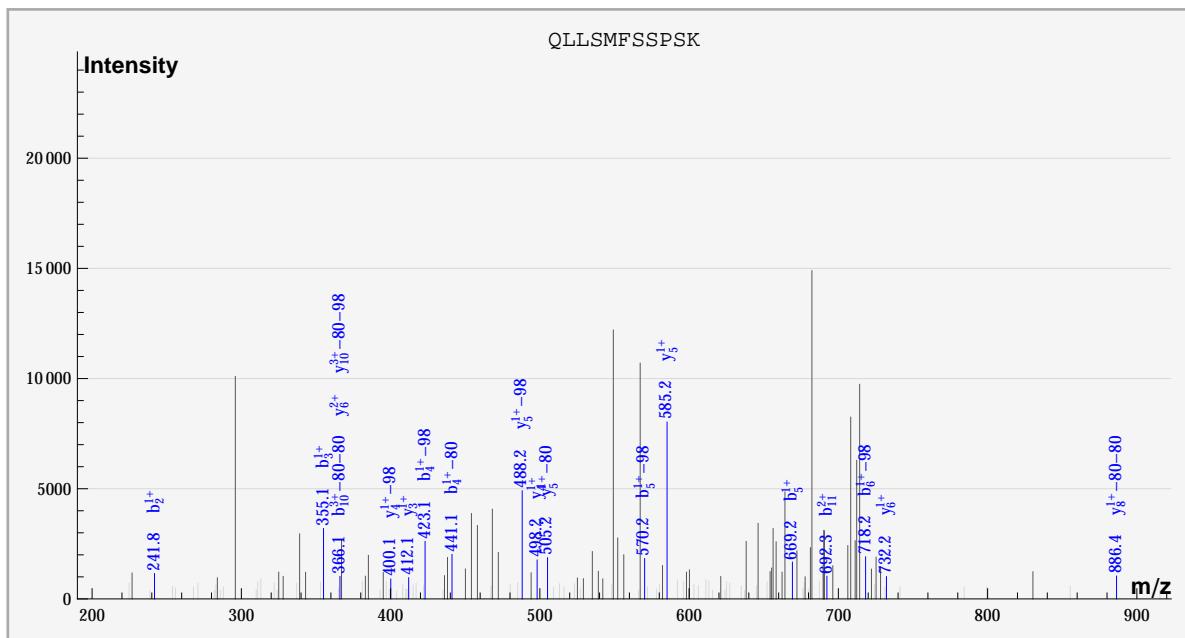
	♯	b	b*		♯	y	y*	P	P*
Q	1				10				
L	2	✓			10		✓		
L	3	✓			9				
S	4		✓		8		✓		
M	5	✓	✓		7				
F	6		✓		6	✓			
S	7				5	✓	✓		
S	8				4	✓	✓		
P	9				3	✓			
S	10		✓		2				
K	11	✓			1				
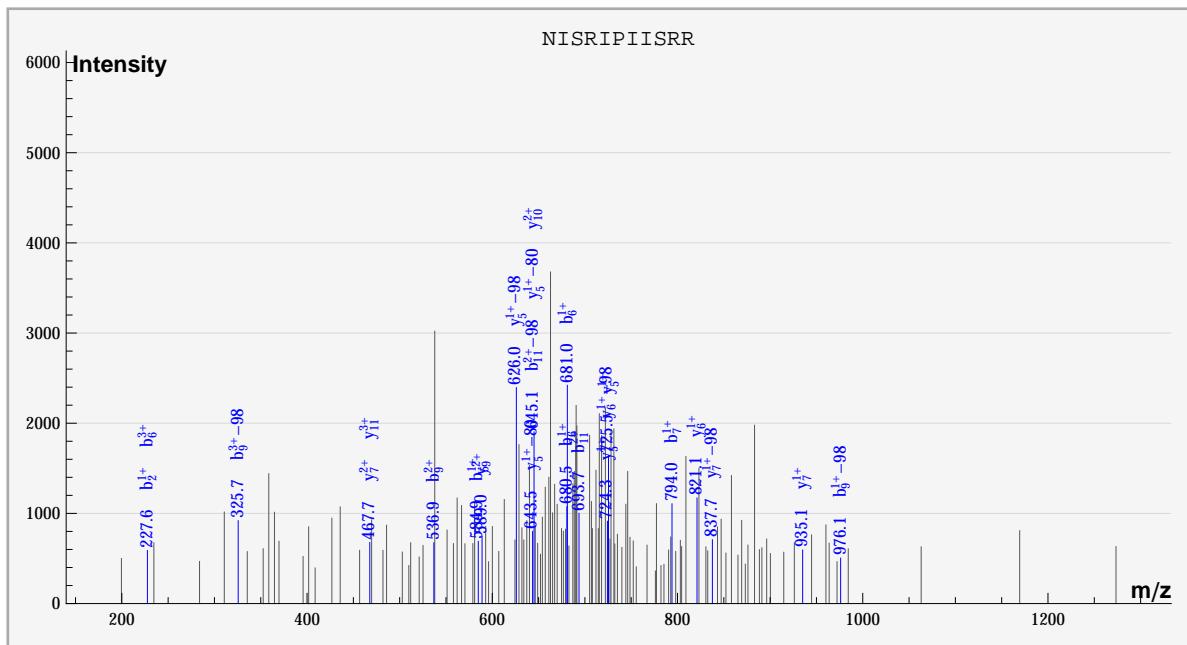
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
N	1						✓	
I	2	✓		10	✓			
S	3			9	✓			
R	4			8				
I	5	✓		7	✓	✓		
P	6	✓		6	✓	✓		
I	7	✓		5	✓	✓		
I	8			4				
S	9	✓	✓	3				
R	10			2				
R	11	✓	✓	1				
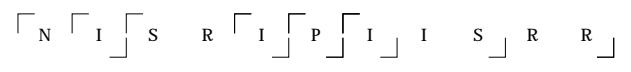
dbValid true YSYEKLERR PHOS(2) 2. 703. −0.708578 5.04869 100. ? 1584.
S_Acido_new%gi|68567350|gb|AAY80279.1| YSYEKLERR%:PHOS::PHOS:::::::%sample_0%cmpd_307

YSYEKLERR
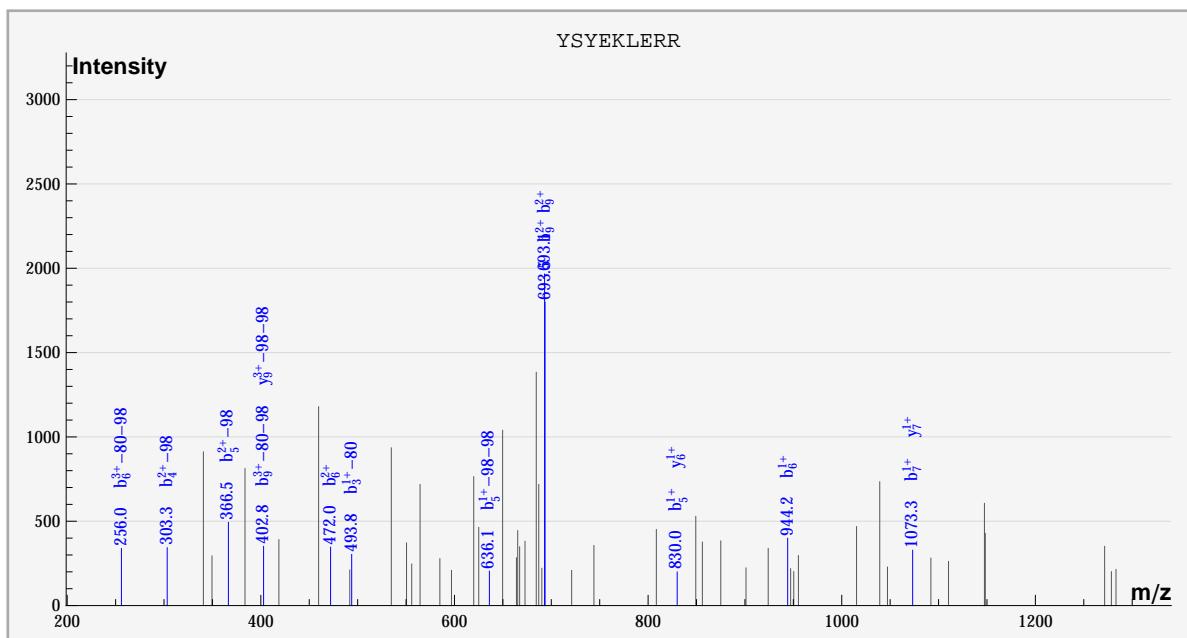
	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
S	2			8				
Y	3		✓	7	✓			
E	4		✓	6	✓			
K	5	✓	✓	5				
L	6	✓	✓	4				
E	7	✓		3				
R	8			2				
R	9	✓	✓	1				
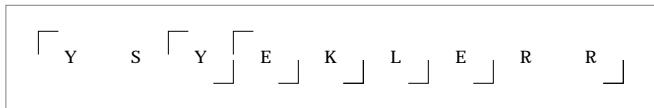
dbValid true EYIELEEKNR PHOS(1) 2. 703. −1.18388 5.75944 100. ? 2838.
  S_Acido_new%gi|68568192|gb|AAY81121.1| EYIELEEKNR%::PHOS:::::::::%sample_1%cmpd_1354
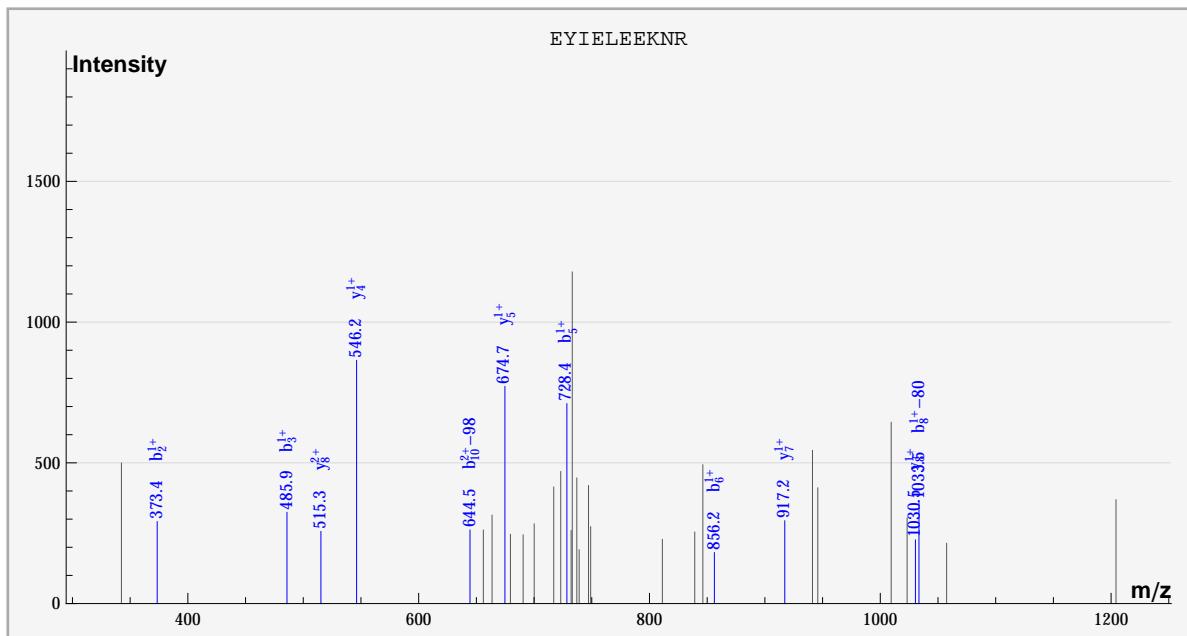
	♯	b	b*	♯	y	y*	P	P*
E	1			9				
Y	2	✓		9				
I	3	✓		8	✓			
E	4			7	✓			
L	5	✓		6				
E	6	✓		5	✓			
E	7			4	✓			
K	8		✓	3				
N	9			2				
R	10		✓	1				

E   Y   I   E   L   E   E   K   N   R
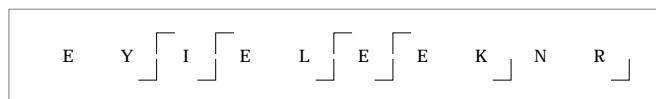
dbValid true VETYSGGMRRR Oxidation_M(1),PHOS(1) 2. 704. 0.313557 5.01435 100. ? 2604.
  S_Acido_new%gi|68567435|gb|AAY80364.1| VETYSGGMRRR%:::PHOS:::::Oxidation_M::::%sample_0%cmpd_1233

	♯	b	b*	♯	y	y*	P	P*
V	1							
E	2			10				
T	3			9		✓		
Y	4		✓	8	✓			
S	5	✓	✓	7	✓			
G	6	✓	✓	6	✓			
G	7		✓	5	✓			
M	8	✓	✓	4	✓			
R	9		✓	3				
R	10		✓	2				
R	11			1				

dbValid true GGYVDDLEFKGK PHOS(1) 2. 704. 0.313207 5.05675 100. ? 4998.
S_Acido_new%gi|68568119|gb|AAY81048.1| GGYVDDLEFKGK%:::PHOS::::::::::%sample_0%cmpd_3406

	#	b	b*	#	y	y*	P	P*
G	1							
G	2			11	✓	✓		
Y	3	✓		10				
V	4	✓	✓	9				
D	5	✓		8				
D	6			7	✓			
L	7	✓		6	✓			
E	8			5				
F	9	✓		4				
K	10		✓	3				
G	11			2				
K	12			1				
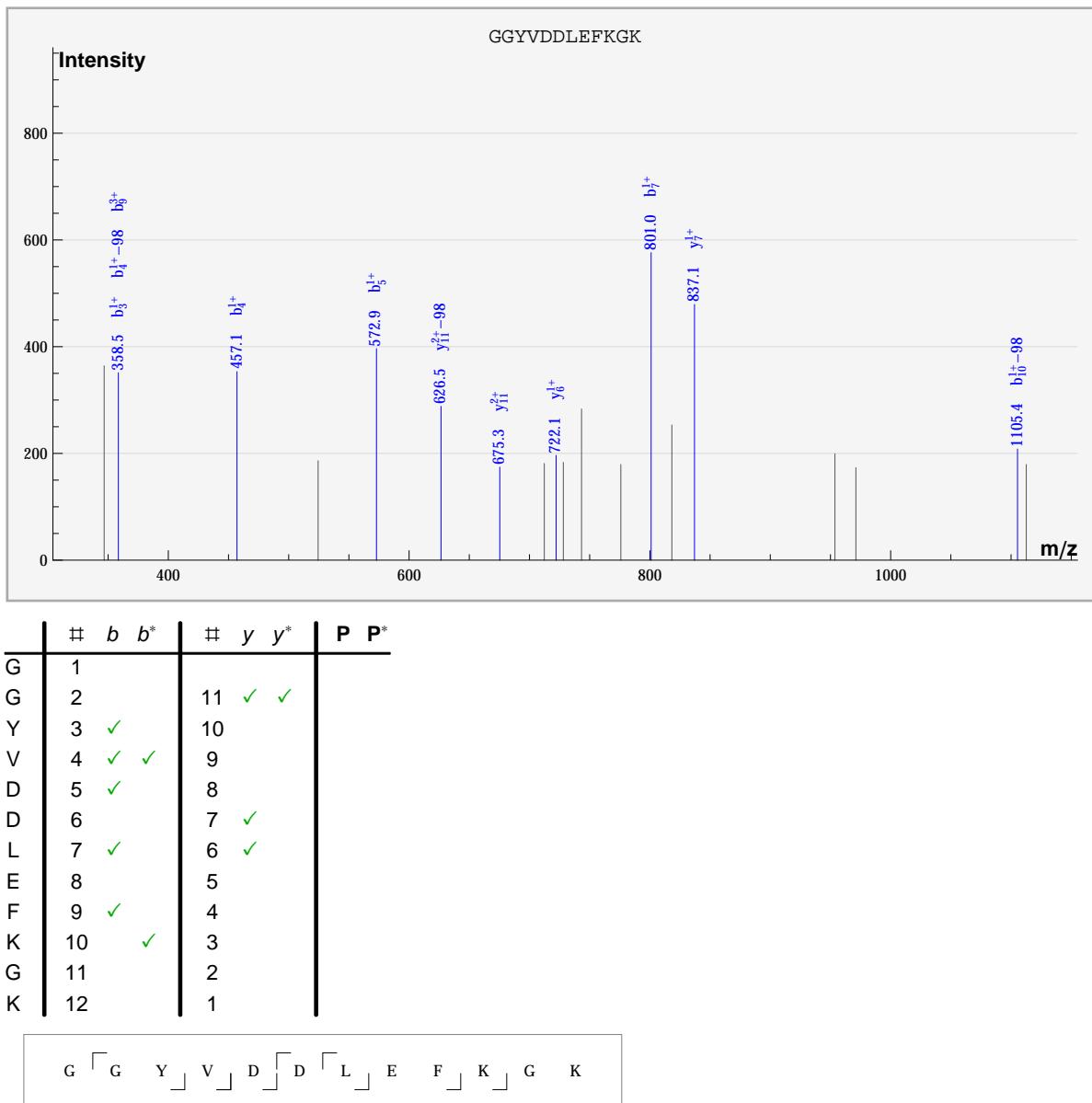
dbValid true RGWTTLGVKTK PHOS(2) 2. 705. −1.16675 5.03141 100. ? 2640.
S_Acido_new%gi|68567076|gb|AAY80005.1| RGWTTLGVKTK%::::PHOS::::::PHOS::%sample_0%cmpd_1267
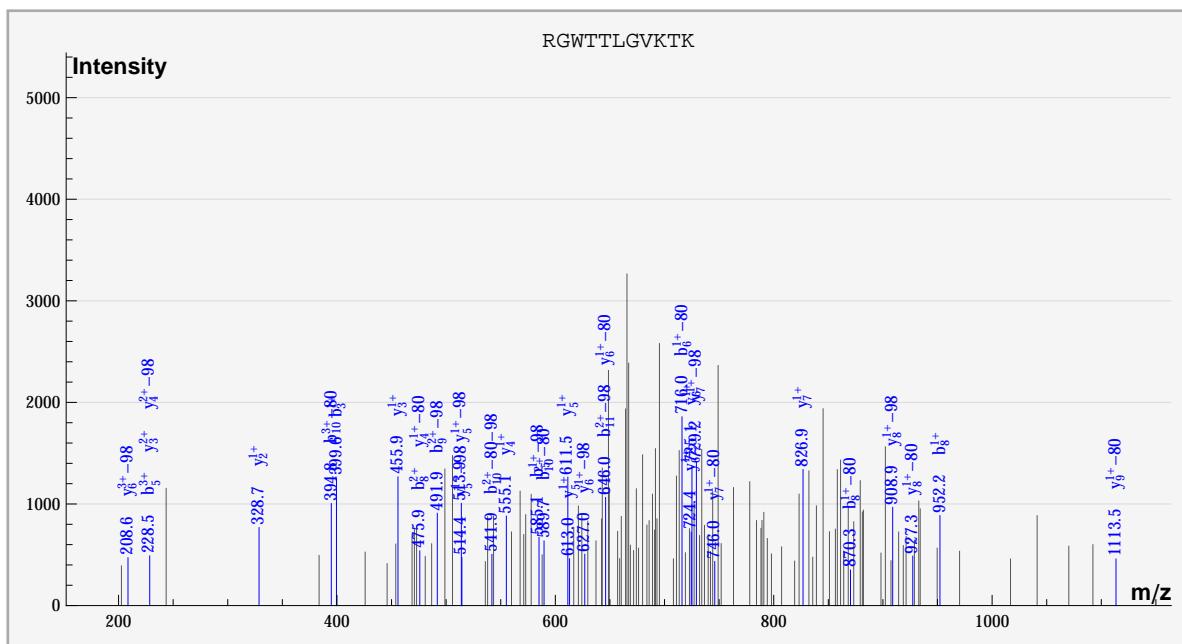
	♯	b	b^*	♯	y	y^*	P	P*
R	1							
G	2			10				
W	3	✓		9		✓		
T	4			8		✓		
T	5	✓	✓	7	✓	✓		
L	6		✓	6	✓	✓		
G	7			5	✓	✓		
V	8	✓	✓	4	✓	✓		
K	9		✓	3	✓			
T	10		✓	2	✓			
K	11		✓	1				

R G W T T L G V K T K

dbValid true VKDYILSFGER PHOS(1) 2. 705. −1.1606 5.0583 100. ? 3468.
S_Acido_new%gi|68567813|gb|AAY80742.1| VKDYILSFGER%:::::::PHOS:::::%sample_1%cmpd_1893

	#	b	b*	#	y	y*	P	P*
V	1							✓
K	2			10	✓	✓		
D	3			9				
Y	4			8				
I	5	✓		7		✓		
L	6	✓		6	✓			
S	7	✓		5	✓	✓		
F	8	✓		4	✓			
G	9			3				
E	10		✓	2				
R	11	✓	✓	1				

dbValid true VYVSFGEEKDR PHOS(1) 2. 706. −1.18916 5.02445 100. ? 2742.
S_Acido_new%gi|68567523|gb|AAY80452.1| VYVSFGEEKDR%::::PHOS:::::::%sample_1%cmpd_1275

VYVSFGEEKDR
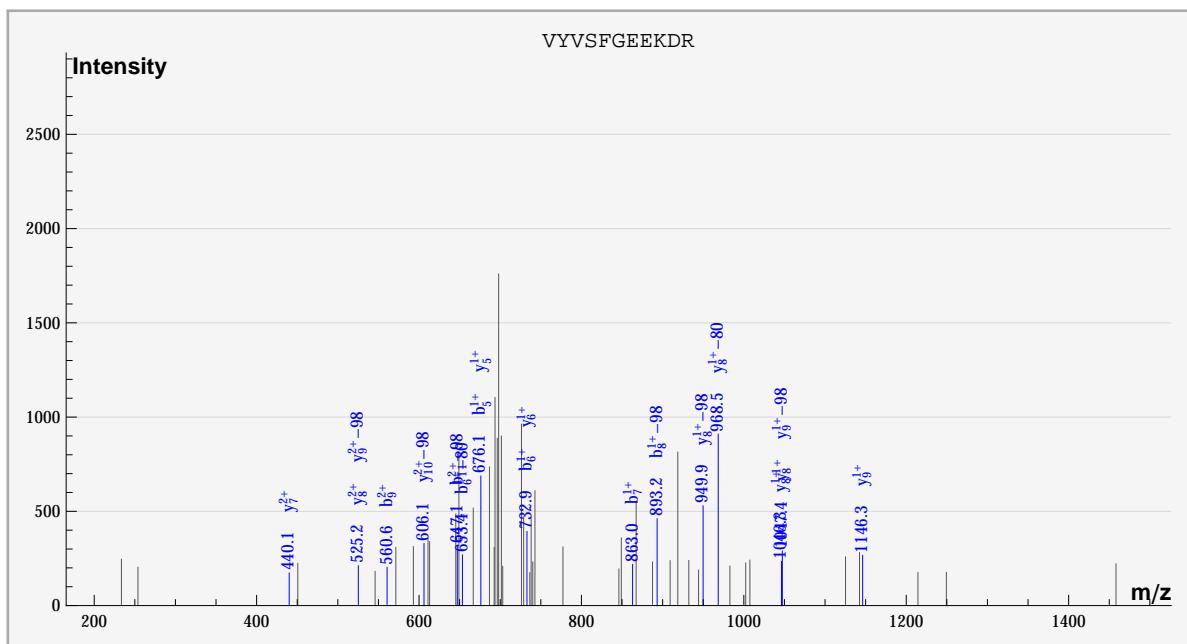
	♯	b	b*	♯	y	y*	P	P*
V	1							
Y	2			10		✓		
V	3			9	✓	✓		
S	4			8	✓	✓		
F	5	✓		7	✓			
G	6	✓	✓	6	✓			
E	7	✓		5	✓			
E	8		✓	4				
K	9	✓		3				
D	10			2				
R	11		✓	1				

V ⌐Y ⌐V ⌐S ⌐F ⌐G ⌐E ⌐ E ⌐ K ⌐ D R

dbValid true STQQASANTTSR PHOS(2) 2. 706. 0.266142 5.07203 100. ? 3384.
  S_Acido_new%gi|68568413|gb|AAY81342.1| STQQASANTTSR%:PHOS::::::::PHOS:::%sample_0%cmpd_1943
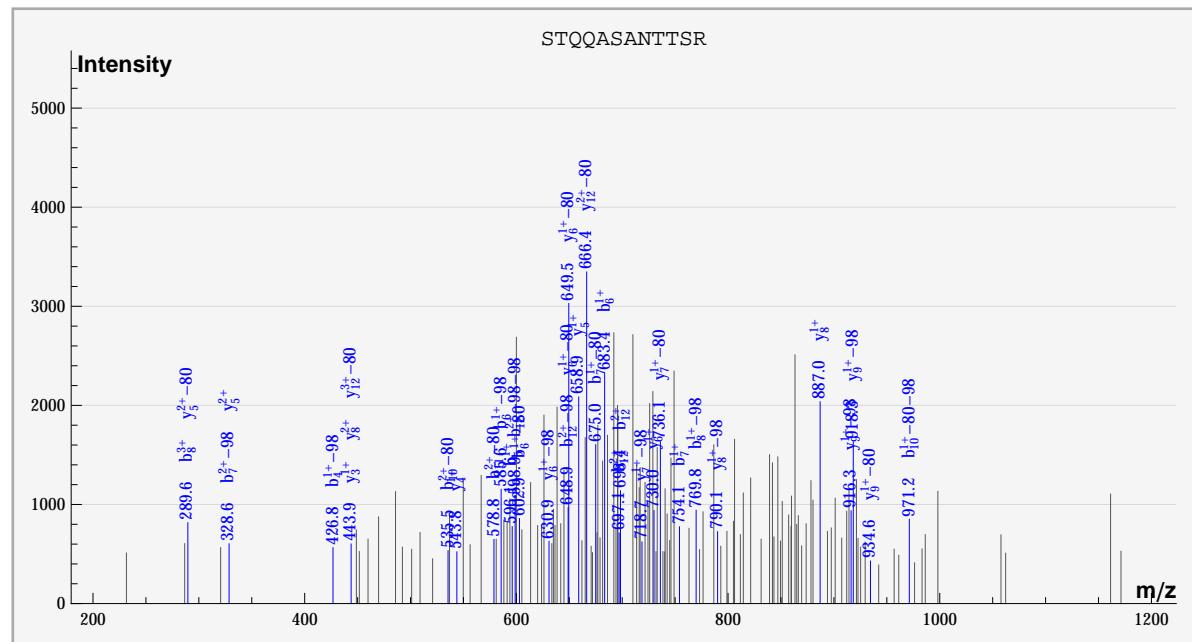
	#	b	b*	#	y	y*	P	P*
S	1							✓
T	2			11				
Q	3			10				
Q	4		✓	9		✓		
A	5	✓		8	✓	✓		
S	6	✓	✓	7		✓		
A	7	✓	✓	6	✓	✓		
N	8	✓	✓	5	✓	✓		
T	9			4	✓			
T	10		✓	3	✓			
S	11		✓	2				
R	12	✓	✓	1				

dbValid true TKNIILNFEIK PHOS(1) 2. 706. 0.881067 5.40527 100. ? 3978.
S_Acido_new%gi|68567122|gb|AAY80051.1| TKNIILNFEIK%:PHOS:::::::::::%sample_0%cmpd_2486

	#	b	b*	#	y	y*	P	P*
T	1							✓
K	2			10				
N	3			9				
I	4	✓	✓	8				
I	5	✓		7		✓		
L	6	✓		6		✓		
N	7	✓	✓	5		✓		
F	8			4		✓		
E	9		✓	3				
I	10			2				
K	11		✓	1				
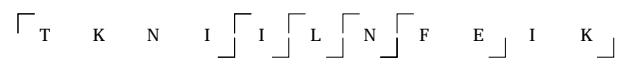
dbValid true QYQMTNNLLK PHOS(2) 2. 707. −0.212333 5.23597 100. ? 1566.
S_Acido_new%gi|68567719|gb|AAY80648.1| QYQMTNNLLK%::PHOS:::PHOS::::::%sample_3%cmpd_274
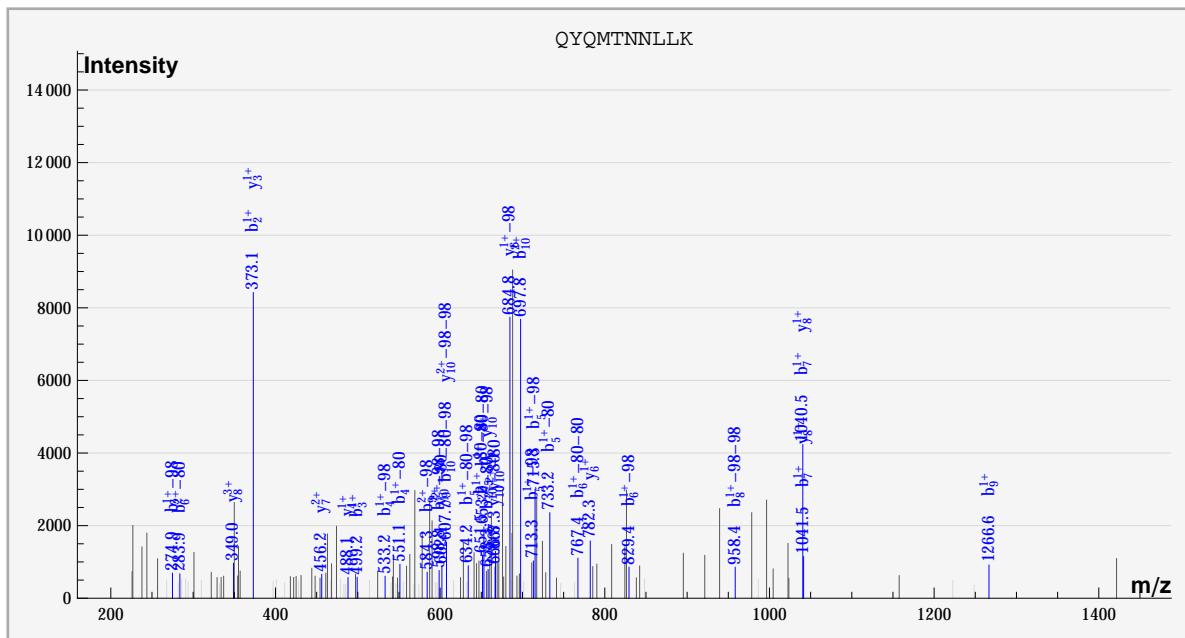
#	b	b*	#	y	y*	P	P*
Q	1							✓
Y	2	✓	✓	9		✓		
Q	3	✓		8	✓			
M	4		✓	7	✓			
T	5		✓	6	✓	✓		
N	6		✓	5				
N	7	✓		4	✓			
L	8		✓	3	✓			
L	9	✓	✓	2				
K	10	✓	✓	1				
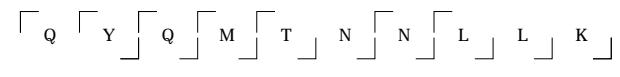
dbValid true QYQMTNNLLK PHOS(2) 2. 707. −0.212333 5.11759 100. ? 1578.
  S_Acido_new%gi|68567719|gb|AAY80648.1| QYQMTNNLLK%::PHOS:::PHOS::::::%sample_3%cmpd_285

QYQMTNNLLK

	#	b	b*	#	y	y*	P	P*
Q	1							✓
Y	2	✓	✓	9		✓		
Q	3	✓		8	✓			
M	4		✓	7	✓			
T	5		✓	6	✓	✓		
N	6		✓	5				
N	7	✓		4	✓			
L	8		✓	3	✓			
L	9	✓	✓	2				
K	10	✓	✓	1				

dbValid true TKNIILNFEIK PHOS(1) 2. 707. −0.118933 5.51935 100. ? 3666.
  S_Acido_new%gi|68567122|gb|AAY80051.1| TKNIILNFEIK%:PHOS:::::::::::%sample_0%cmpd_2200

	♯	b	b*	♯	y	y*	P	P*
T	1							
K	2			10				
N	3		✓	9				
I	4	✓		8				
I	5	✓	✓	7	✓			
L	6	✓	✓	6	✓			
N	7	✓	✓	5	✓			
F	8			4				
E	9		✓	3				
I	10			2	✓			
K	11	✓		1				

dbValid true KYIPEIVSVRK PHOS(1) 2. 708. −1.61094 5.0703 100. ? 1710.
S_Acido_new%gi|68567723|gb|AAY80652.1| KYIPEIVSVRK%::PHOS::::::::::%sample_0%cmpd_420
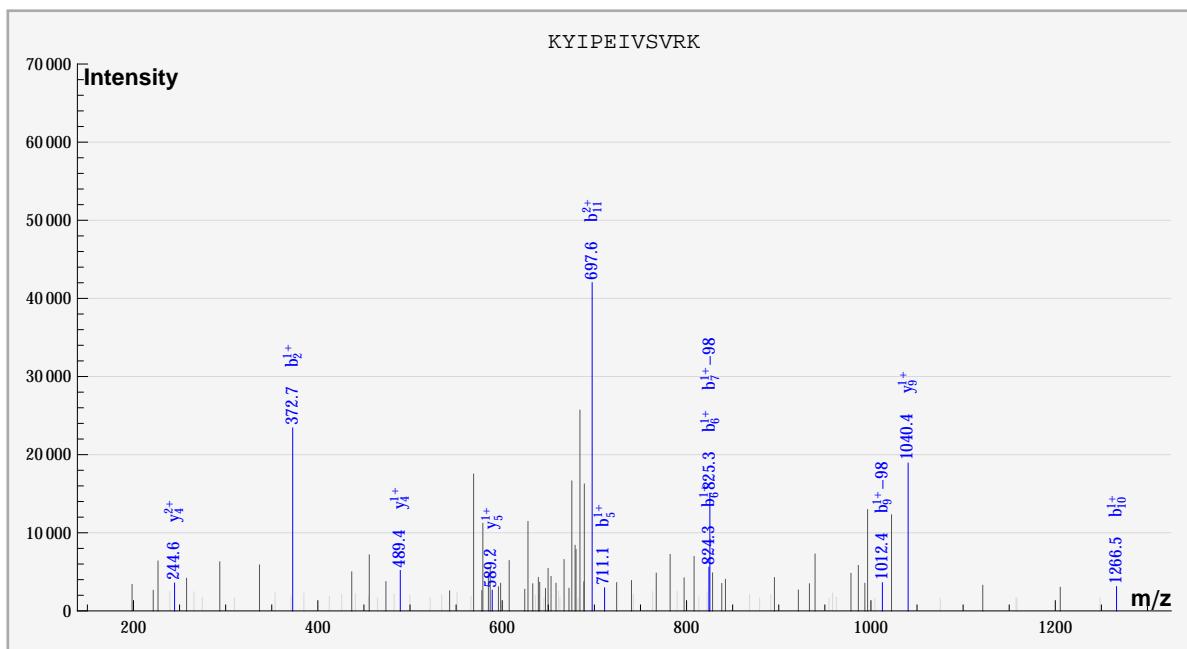
KYIPEIVSVRK

	#	b	b*	#	y	y*	P	P*
K	1							
Y	2	✓		10				
I	3			9	✓			
P	4			8				
E	5	✓		7				
I	6	✓		6				
V	7		✓	5	✓			
S	8			4	✓			
V	9		✓	3				
R	10	✓		2				
K	11	✓		1				

K Y I P E I V S V R K

dbValid true APYLVSPVLSK PHOS(3) 2. 708. −0.703023 5.41607 100. ? 4536.
 S_Acido_new%gi|68568261|gb|AAY81190.1| APYLVSPVLSK%:::PHOS:::PHOS::::PHOS:%sample_0%cmpd_2997

APYLVSPVLSK
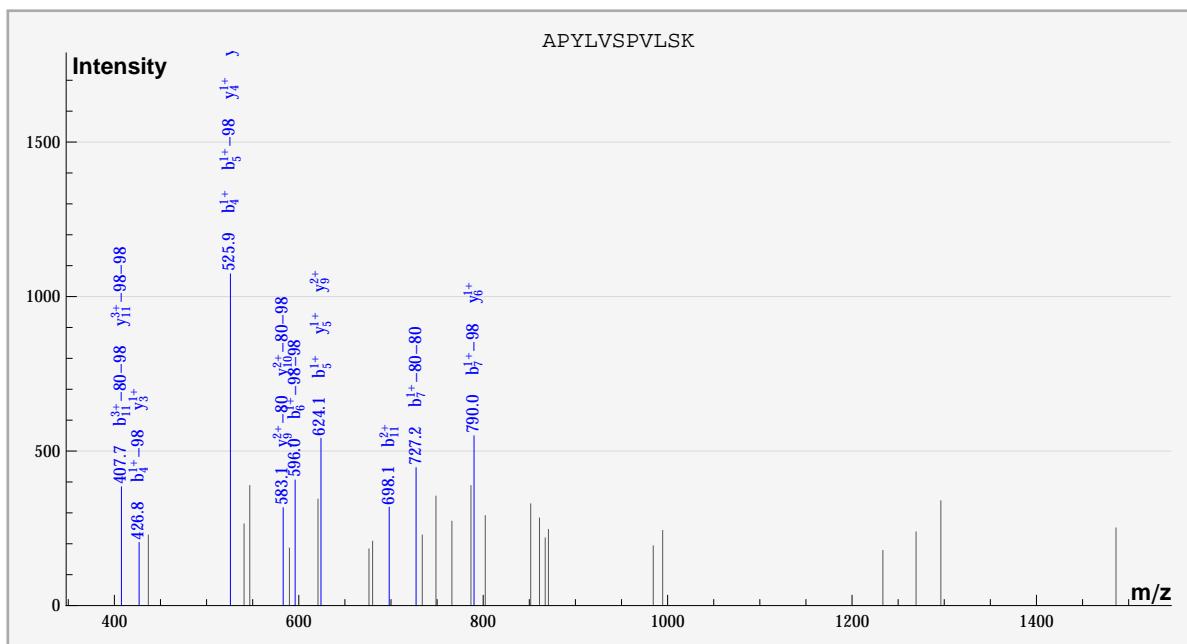
	#	b	b*	#	y	y*	P	P*
A	1							✓
P	2			10		✓		
Y	3			9	✓	✓		
L	4	✓	✓	8				
V	5	✓	✓	7				
S	6		✓	6	✓			
P	7		✓	5	✓	✓		
V	8			4	✓			
L	9			3	✓			
S	10			2				
K	11	✓	✓	1				

A P Y L V S P V L S K
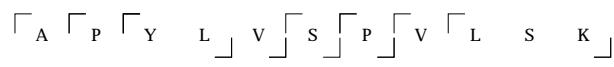
dbValid true SRTYQNQETK PHOS(2) 2. 709. −1.2264 5.25286 100. ? 1638.
S_Acido_new%gi|68567068|gb|AAY79997.1| SRTYQNQETK%::::PHOS:::::PHOS::%sample_0%cmpd_356
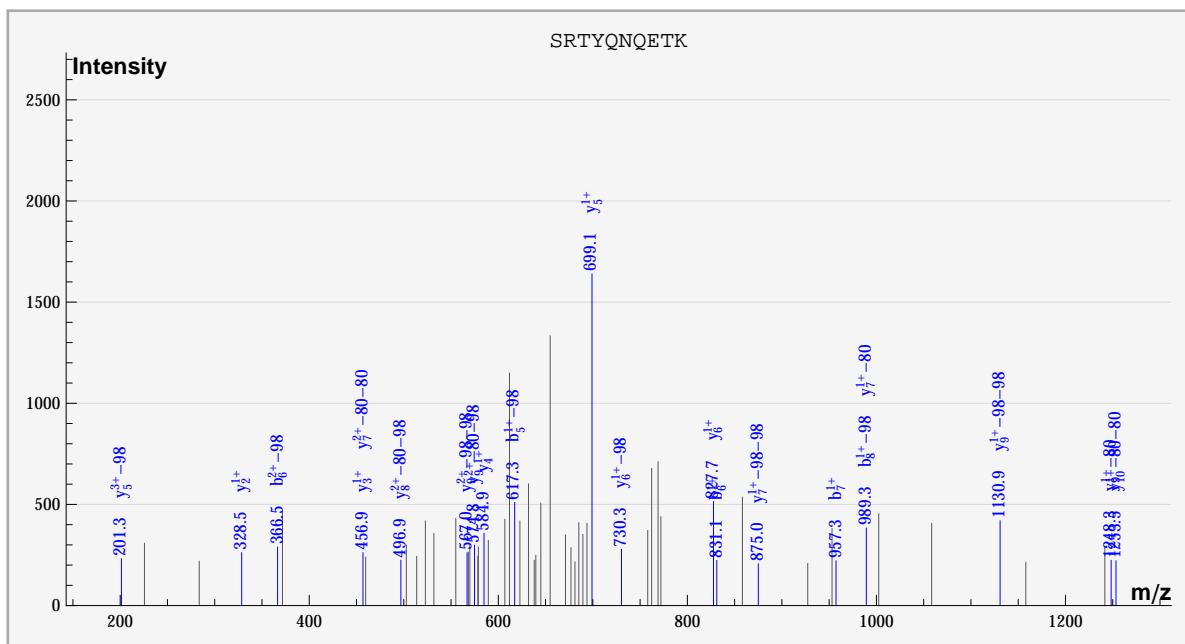
	♯	*b*	*b**		♯	*y*	*y**		**P**	**P***
S	1									✓
R	2				9		✓			
T	3				8		✓			
Y	4				7		✓			
Q	5		✓		6	✓	✓			
N	6	✓	✓		5	✓	✓			
Q	7	✓			4	✓				
E	8		✓		3	✓				
T	9				2	✓				
K	10				1					

dbValid true VEYYPIARDK PHOS(2) 2. 709. −1.70383 5.02779 100. ? 2550.
  S_Acido_new%gi|68568429|gb|AAY81358.1| VEYYPIARDK%:::PHOS:PHOS:::::::%sample_3%cmpd_1123

	♯	b	b*	♯	y	y*	P	P*
V	1							
E	2			9				
Y	3			8				
Y	4	✓	✓	7		✓		
P	5		✓	6		✓		
I	6		✓	5		✓		
A	7		✓	4				
R	8			3				
D	9	✓	✓	2				
K	10	✓		1				
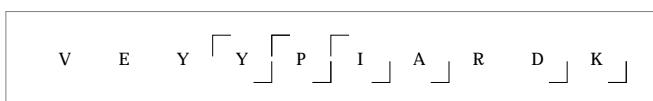
V E Y ⌐Y ⌐P ⌐I ⌐A R D ⌐K

dbValid   true   VEYYPIARDK   PHOS(2)   2.   709.   −1.70383   4.96562   100.   ?   2598.
S_Acido_new%gi|68568429|gb|AAY81358.1| VEYYPIARDK%:::PHOS:PHOS:::::::%sample_3%cmpd_1164

	#	b	b*		#	y	y*		P	P*
V	1									✓
E	2				9					
Y	3				8					
Y	4	✓	✓		7	✓				
P	5		✓		6	✓				
I	6		✓		5	✓				
A	7	✓	✓		4					
R	8				3					
D	9		✓		2					
K	10	✓			1					

dbValid true NTFYVQCYSR Cys_CAM(1),PHOS(1) 2. 709. 0.283947 5.01114 100. ? 3726.
S_Acido_new%gi|68567336|gb|AAY80265.1| NTFYVQCYSR%::PHOS:::::Cys_CAM::::%sample_0%cmpd_2258

	♯	b	b*	♯	y	y*	P	P*
N	1							
T	2			9				
F	3		✓	8				
Y	4		✓	7				
V	5		✓	6				
Q	6	✓	✓	5				
C	7	✓	✓	4				
Y	8	✓	✓	3				
S	9			2				
R	10			1				

dbValid true TYKIVSNNIK PHOS(3) 2. 711. −0.710308 5.17226 100. ? 1656.
S_Acido_new%gi|68567823|gb|AAY80752.1| TYKIVSNNIK%:PHOS:PHOS::::PHOS:::::%sample_3%cmpd_372
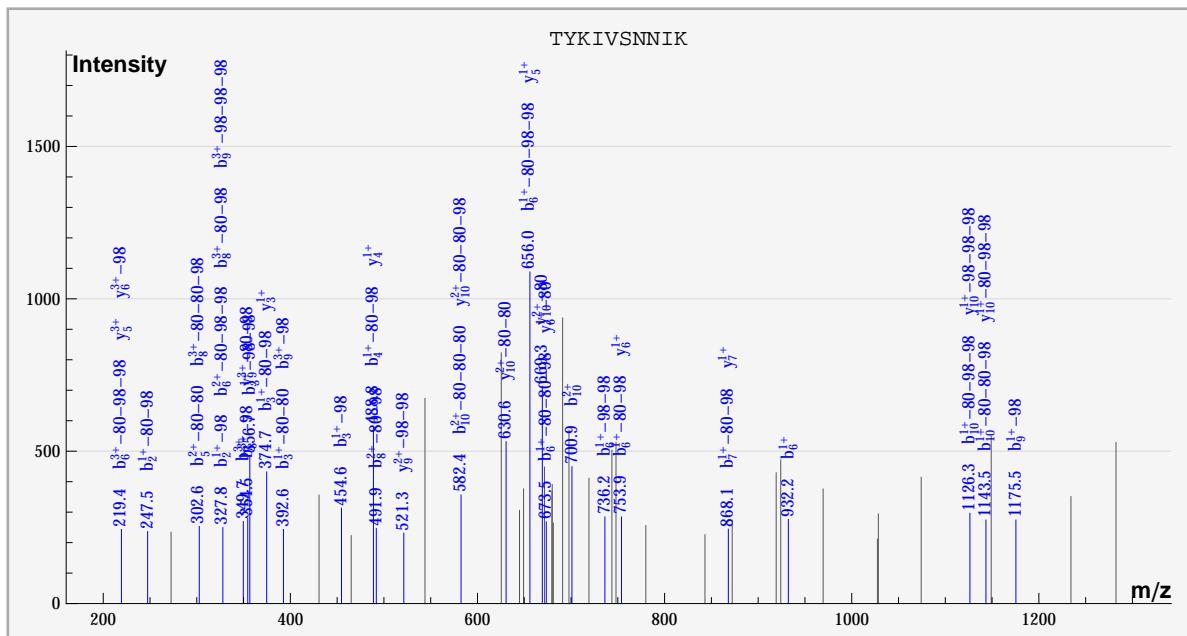
	#	b	b*	#	y	y*	P	P*
T	1			9				✓
Y	2		✓	9		✓		
K	3		✓	8				
I	4		✓	7	✓			
V	5		✓	6	✓	✓		
S	6	✓	✓	5	✓			
N	7	✓	✓	4	✓			
N	8		✓	3	✓			
I	9		✓	2				
K	10	✓	✓	1				
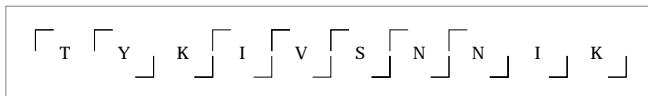
dbValid true GIVTIK PHOS(1) 1. 711. −0.615215 5.82301 100. ? 2502.
    S_Acido_new%gi|68566726|gb|AAY79655.1| GIVTIK%::::PHOS:::%sample_3%cmpd_1144
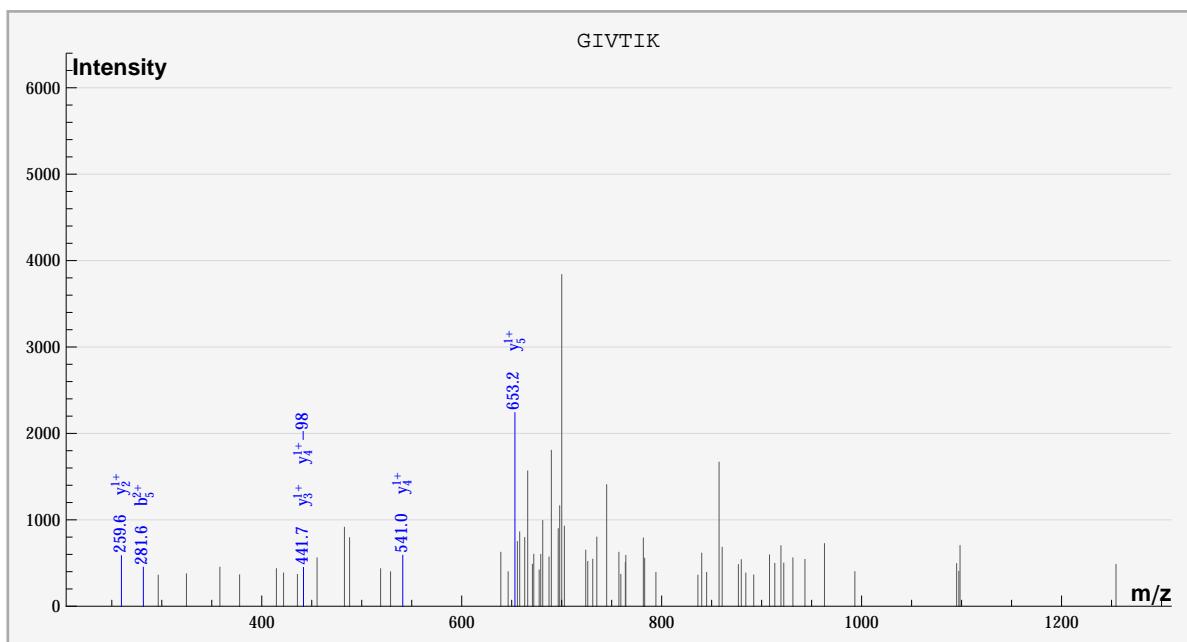
	#	b	b*		#	y	y*		P	P*
G	1									
I	2				5	✓				
V	3				4	✓	✓			
T	4				3	✓				
I	5	✓			2	✓				
K	6				1					
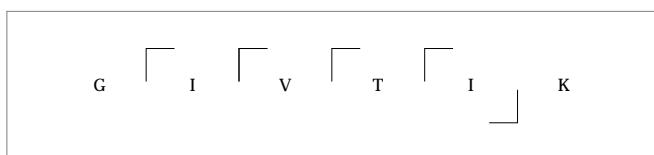
dbValid true NISGIK PHOS(1) 1. 713. −1.65635 5.54755 100. ? 2202.
S_Acido_new%gi|68568427|gb|AAY81356.1| NISGIK%:::PHOS::::%sample_0%cmpd_833
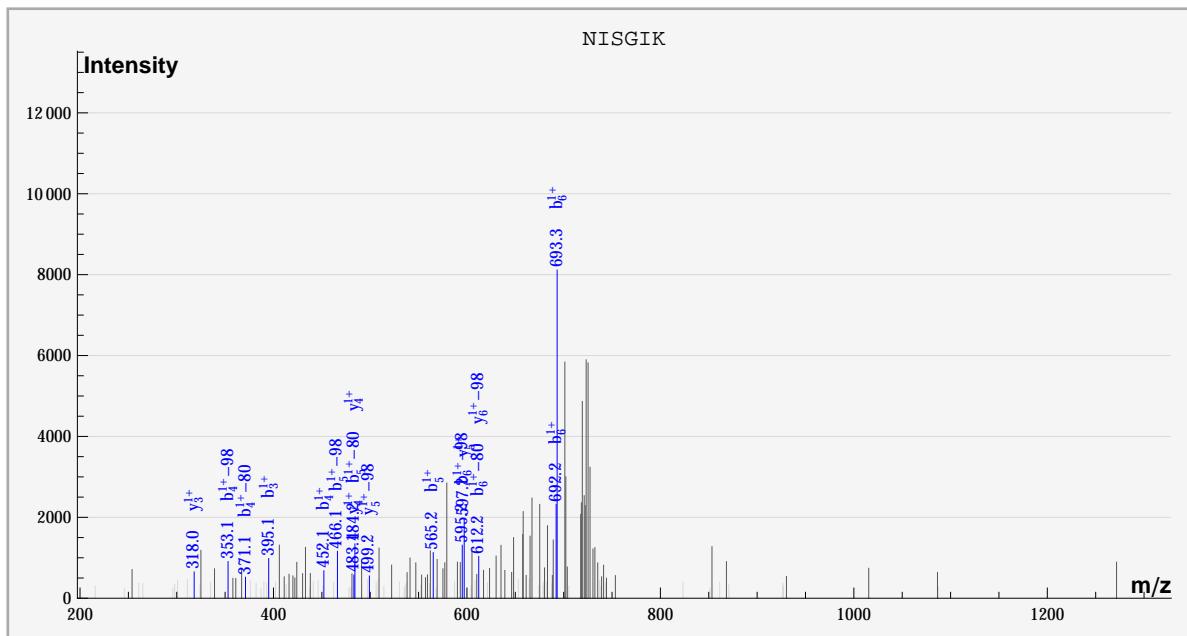
#	b	b*	#	y	y*	P	P*
N	1						✓
I	2		5	✓	✓		
S	3	✓	4	✓			
G	4	✓	✓	3	✓		
I	5	✓	✓	2			
K	6	✓	✓	1			
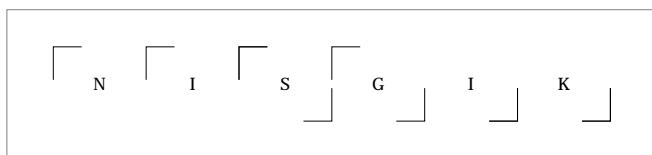
dbValid true NISGIK PHOS(1) 1. 713. −1.65635 5.8555 100. ? 2214.
S_Acido_new%gi|68568427|gb|AAY81356.1| NISGIK%:::PHOS::::%sample_0%cmpd_844
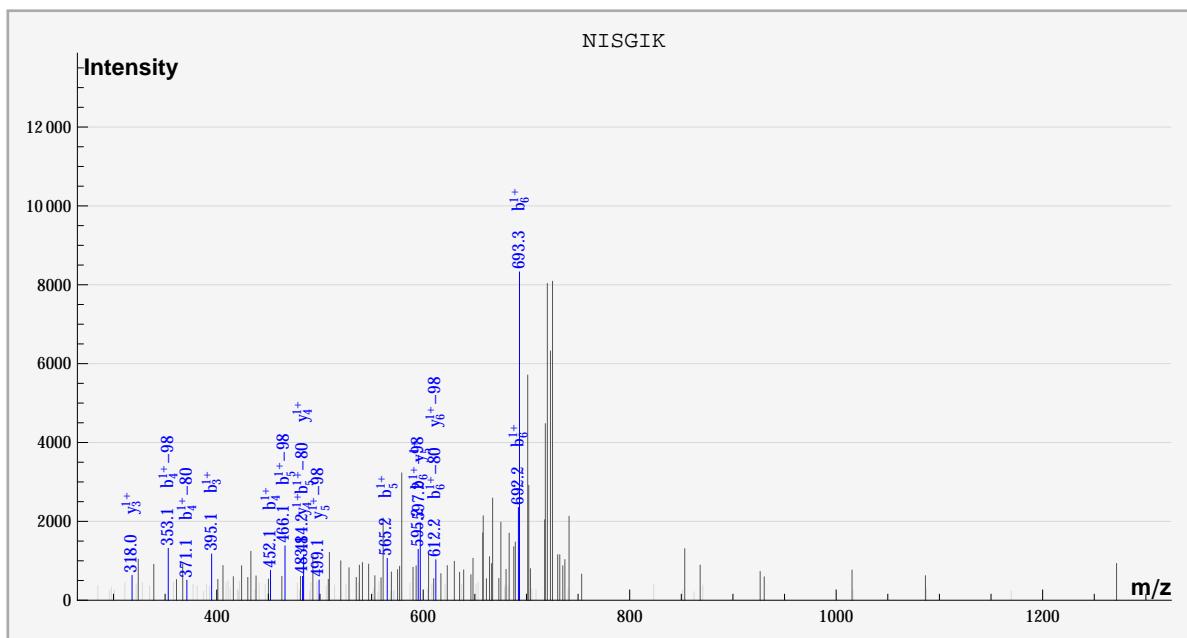
	#	b	b*		#	y	y*		P	P*
N	1									✓
I	2				5	✓	✓			
S	3	✓			4	✓				
G	4	✓	✓		3	✓				
I	5	✓	✓		2					
K	6	✓	✓		1					
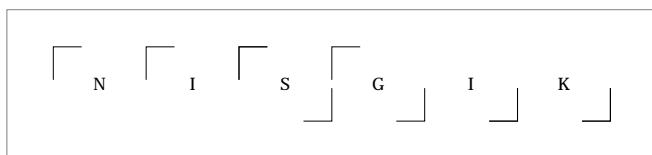
dbValid true TTTIAK PHOS(1) 1. 713. 1.34333 5.11985 100. ? 2694.
  S_Acido_new%gi|68567854|gb|AAY80783.1| TTTIAK%:::PHOS::::%sample_3%cmpd_1323
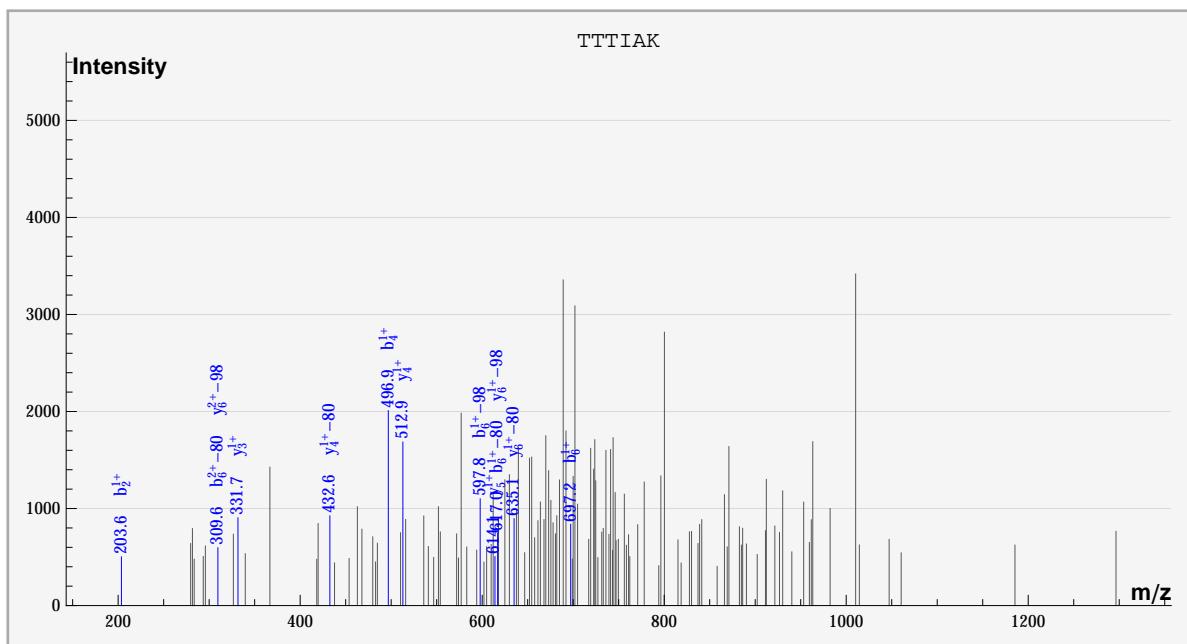
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
T	1							✓
T	2	✓		5	✓			
T	3			4	✓	✓		
I	4	✓		3	✓			
A	5			2				
K	6	✓	✓	1				
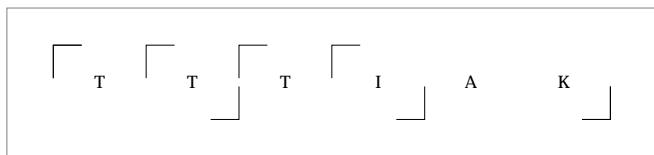
dbValid true DISNLA PHOS(1) 1. 713. −0.708715 5.31404 100. ? 3534.
S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_3%cmpd_2087
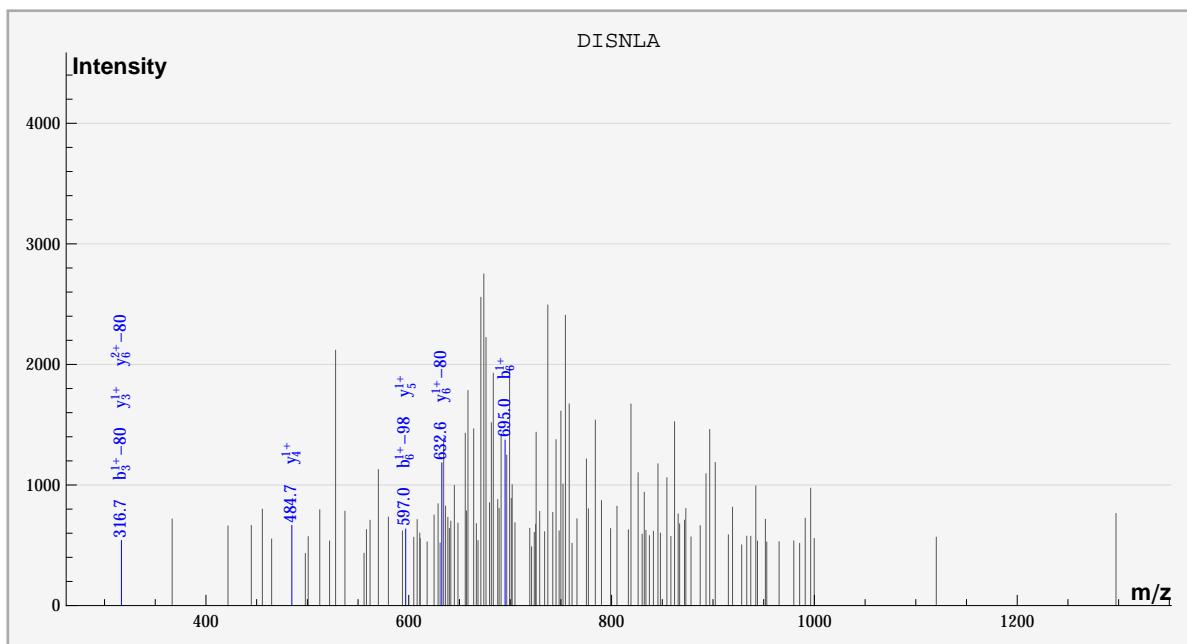
	♯	b	b*	♯	y	y*	P	P*
D	1							✓
I	2			5	✓			
S	3		✓	4	✓			
N	4			3	✓			
L	5			2				
A	6	✓	✓	1				
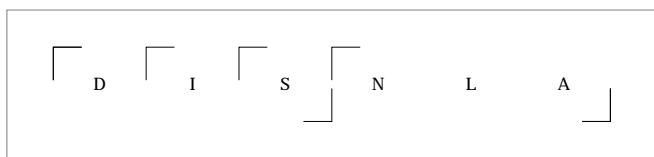
dbValid true FWYLSTKYR PHOS(2) 2. 713. −0.704023 5.01919 100. ? 4290.
   S_Acido_new%gi|68566644|gb|AAY79573.1| FWYLSTKYR%:::PHOS:::::PHOS::%sample_3%cmpd_2773
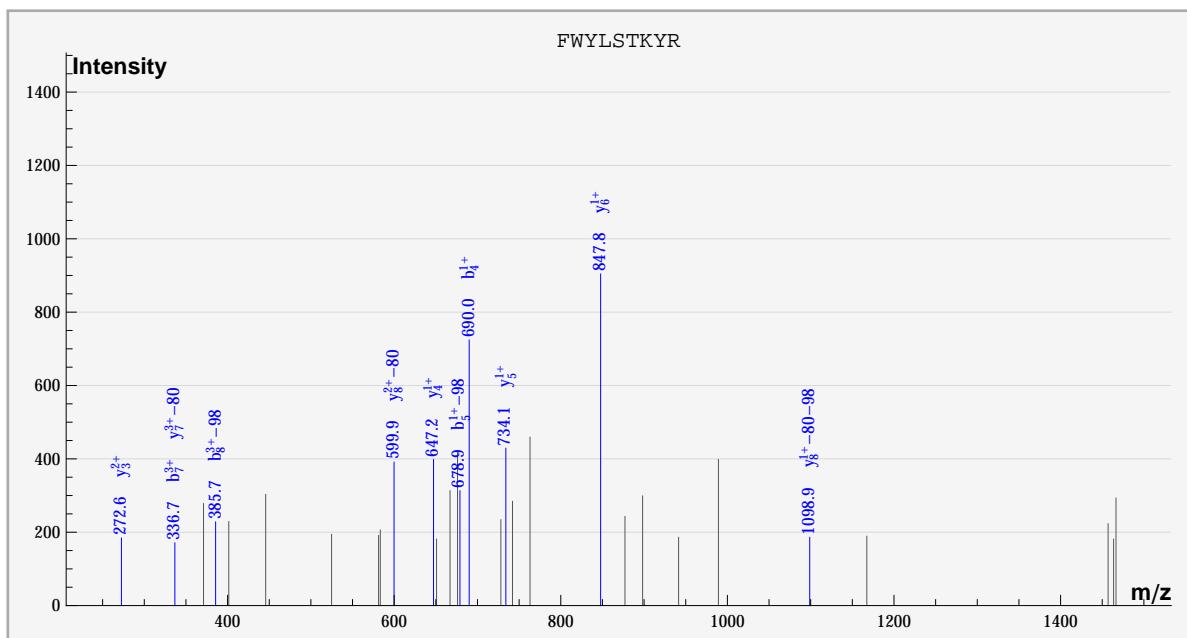
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
F	1							
W	2			8		✓		
Y	3			7		✓		
L	4	✓		6	✓			
S	5		✓	5	✓			
T	6			4	✓			
K	7	✓		3	✓			
Y	8		✓	2				
R	9			1				
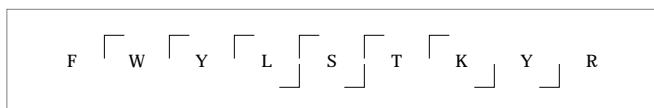
dbValid true DISNLA PHOS(1) 1. 714. −1.70872 5.23413 100. ? 2130.
  S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_0%cmpd_771
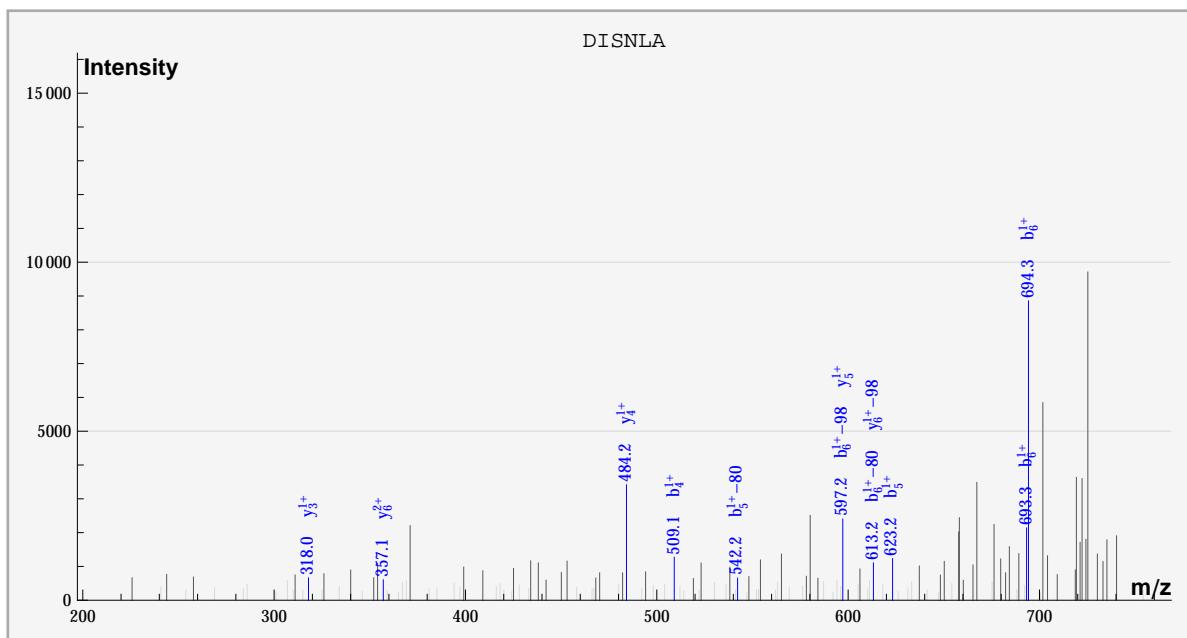
	♯	b	b*	♯	y	y*	P	P*
D	1						✓	✓
I	2			5	✓			
S	3			4	✓			
N	4	✓		3	✓			
L	5	✓	✓	2				
A	6	✓	✓	1				
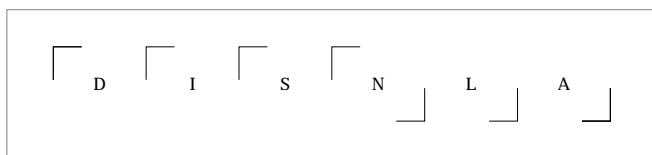
dbValid true DISNLA PHOS(1) 1. 714. −1.70872 5.29657 100. ? 2580.
    S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_0%cmpd_1164
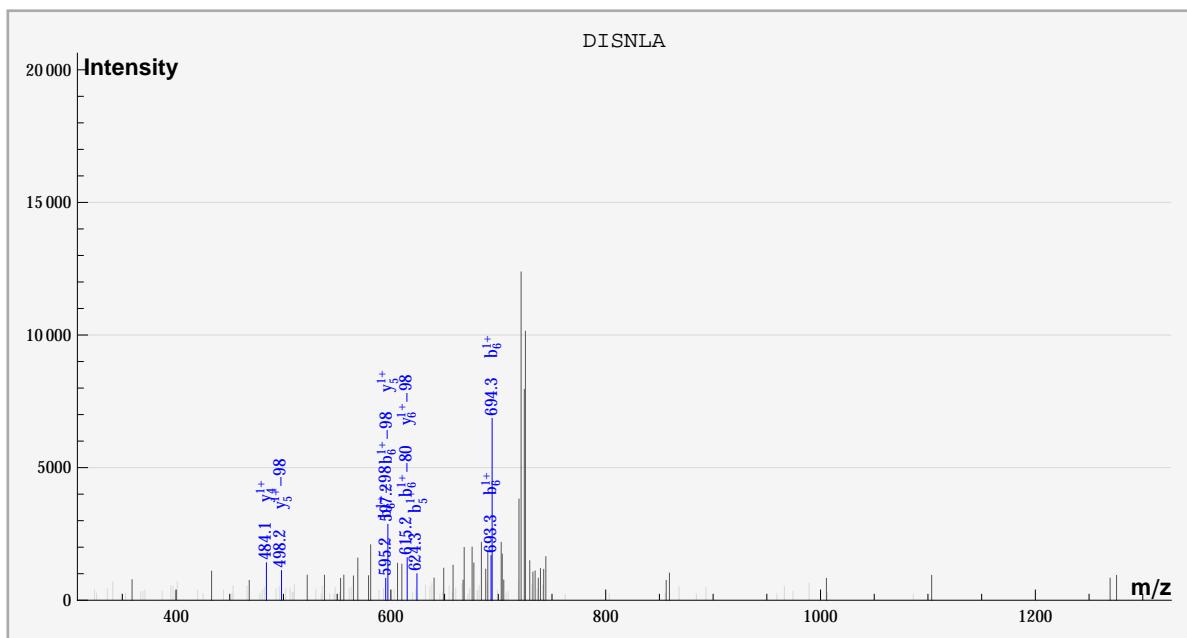
	#	b	b*		#	y	y*		P	P*
D	1									✓
I	2				5	✓	✓			
S	3				4	✓				
N	4				3					
L	5	✓			2					
A	6	✓	✓		1					
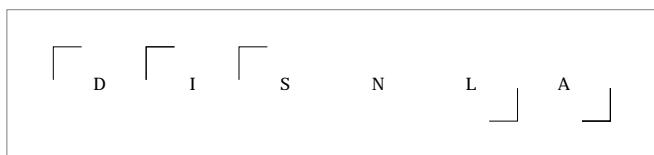
dbValid true DISNLA PHOS(1) 1. 714. −1.70872 5.66695 100. ? 2592.
   S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_0%cmpd_1174
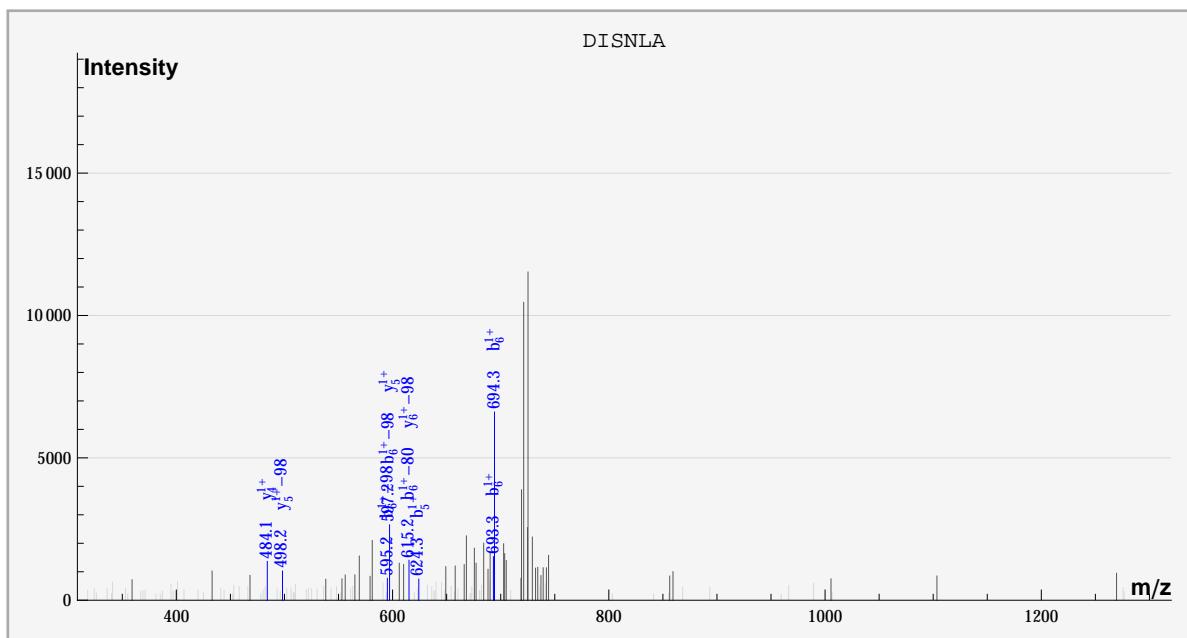
	#	b	b*	#	y	y*	P	P*
D	1							✓
I	2			5	✓	✓		
S	3			4	✓			
N	4			3				
L	5	✓		2				
A	6	✓	✓	1				
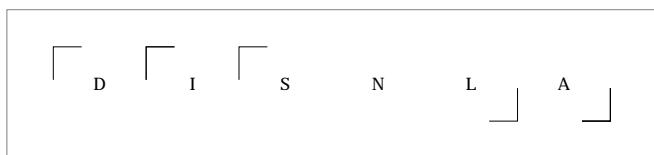
dbValid true DISNLA PHOS(1) 1. 714. −1.70872 5.07939 100. ? 2628.
S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_0%cmpd_1205
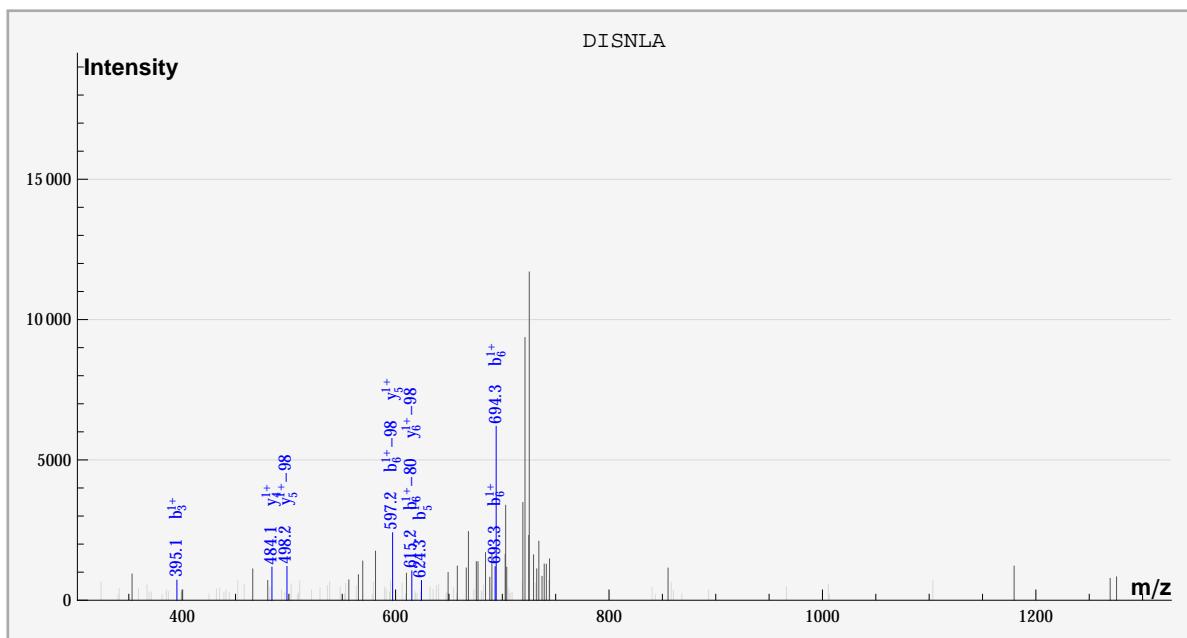
	#	b	b*	#	y	y*	P	P*
D	1							✓
I	2			5	✓	✓		
S	3	✓		4	✓			
N	4			3				
L	5	✓		2				
A	6	✓	✓	1				
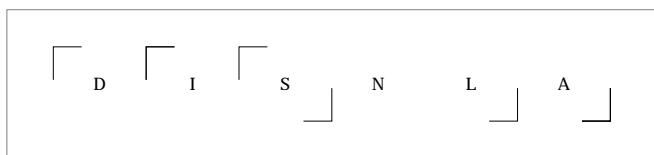
dbValid true DISNLA PHOS(1) 1. 714. −1.70872 5.09247 100. ? 2652.
    S_Acido_new%gi|68568442|gb|AAY81371.1| DISNLA%:::PHOS::::%sample_0%cmpd_1225
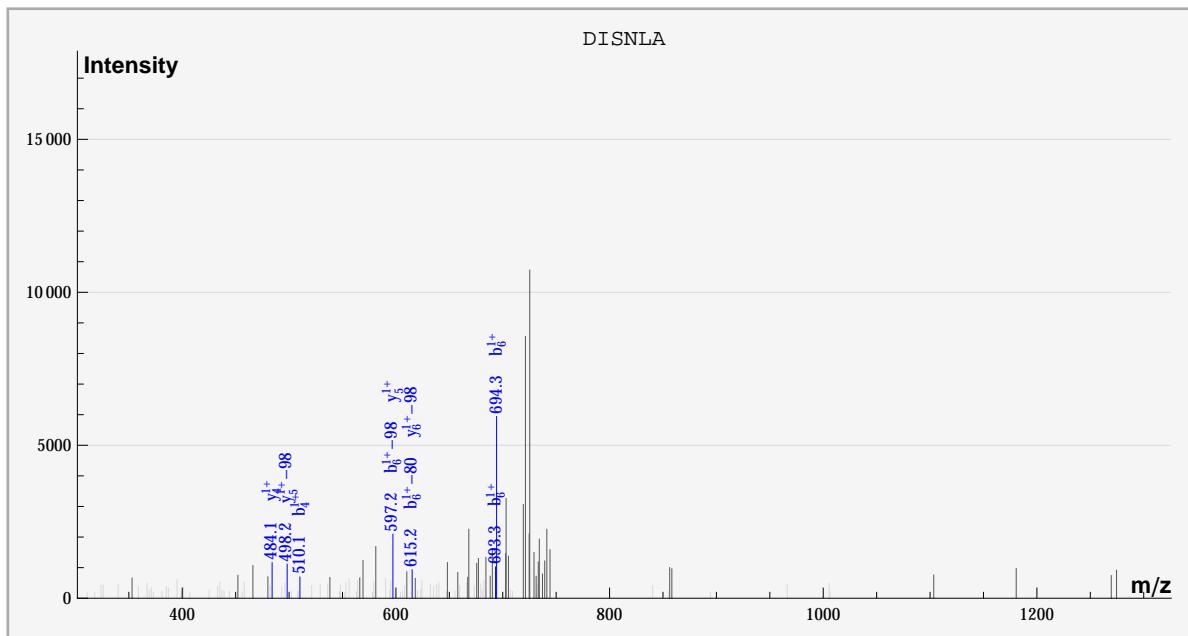
#	b	b*	#	y	y*	P	P*
D	1						✓
I	2		5	✓	✓		
S	3		4	✓			
N	4	✓	3				
L	5		2				
A	6	✓	✓	1			
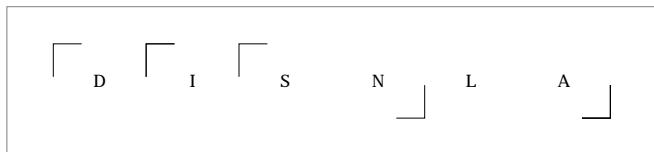
dbValid true VDGGASK PHOS(1) 1. 715. −1.71348 5.09513 100. ? 2190.
  S_Acido_new%gi|68568400|gb|AAY81329.1| VDGGASK%::::::PHOS::%sample_0%cmpd_825
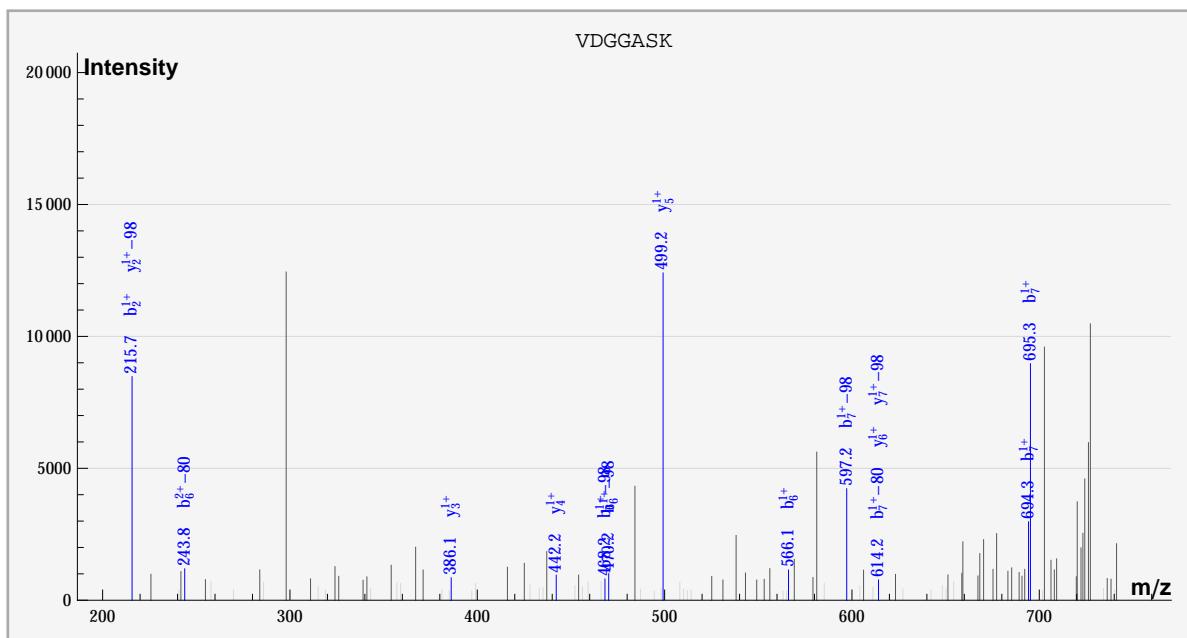
	#	b	b*	#	y	y*	P	P*
V	1							✓
D	2	✓		6	✓			
G	3			5	✓			
G	4			4	✓			
A	5			3	✓			
S	6	✓	✓	2		✓		
K	7	✓	✓	1				
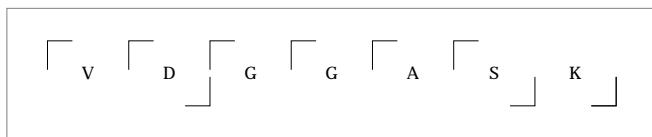
dbValid true YMTRAFGRSTR PHOS(1) 2. 715. −1.67352 5.05793 100. ? 2214.
 S_Acido_new%gi|68567055|gb|AAY79984.1| YMTRAFGRSTR%:PHOS:::::::::::%sample_3%cmpd_882
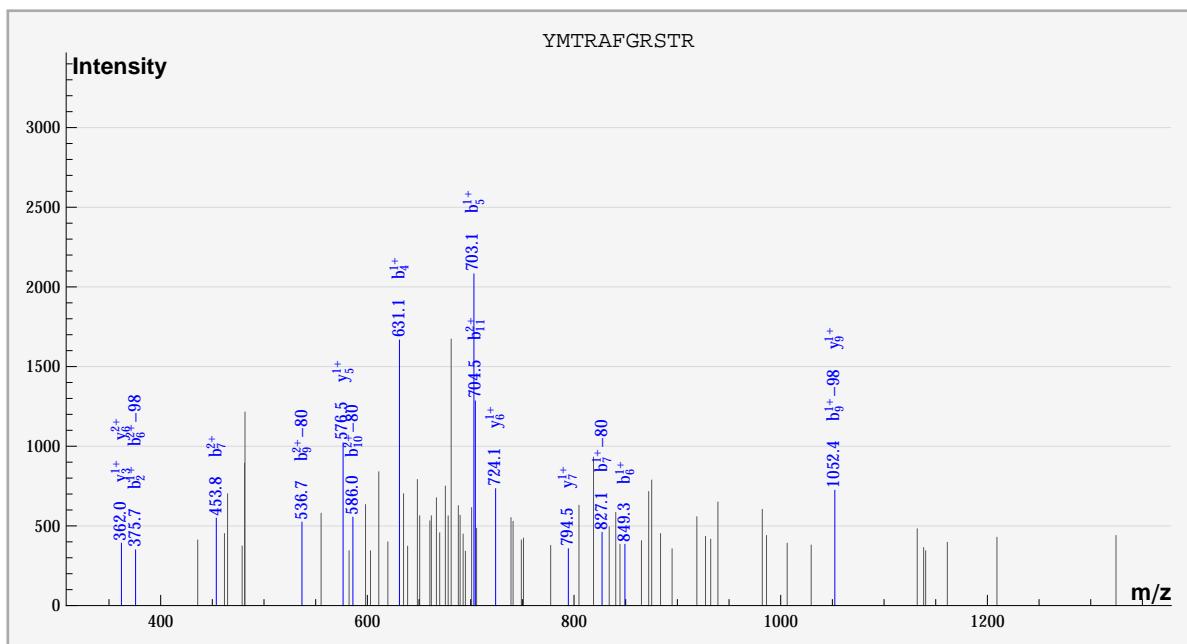
	♯	b	b*	♯	y	y*	P	P*
Y	1							
M	2	✓		10				
T	3			9	✓			
R	4	✓		8				
A	5	✓		7	✓			
F	6	✓	✓	6	✓			
G	7	✓	✓	5	✓			
R	8			4				
S	9		✓	3	✓			
T	10		✓	2				
R	11	✓		1				

Y M T R A F G R S T R

dbValid true VYEAIVSIESR PHOS(2) 2. 715. −1.69327 5.94136 100. ? 2262.
   S_Acido_new%gi|68568539|gb|AAY81468.1| VYEAIVSIESR%::PHOS::::::::PHOS::%sample_3%cmpd_926
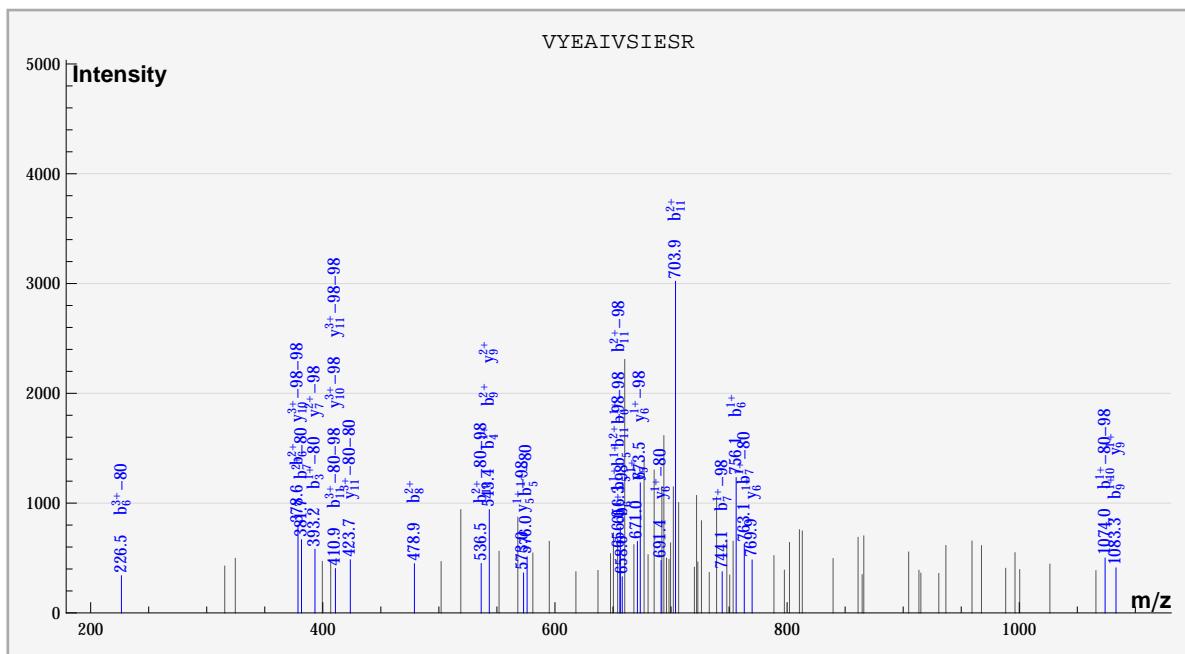
	#	b	b*	#	y	y*	P	P*
V	1							✓
Y	2			10		✓		
E	3		✓	9	✓			
A	4	✓		8				
I	5	✓	✓	7		✓		
V	6	✓	✓	6	✓	✓		
S	7		✓	5	✓	✓		
I	8	✓		4				
E	9	✓		3				
S	10		✓	2				
R	11	✓	✓	1				

dbValid true SGVIILIEMKSR PHOS(1) 2. 715. −1.61962 5.41317 100. ? 4002.
S_Acido_new%gi|68567942|gb|AAY80871.1| SGVIILIEMKSR%:::::::::::PHOS::%sample_0%cmpd_2371

SGVIILIEMKSR
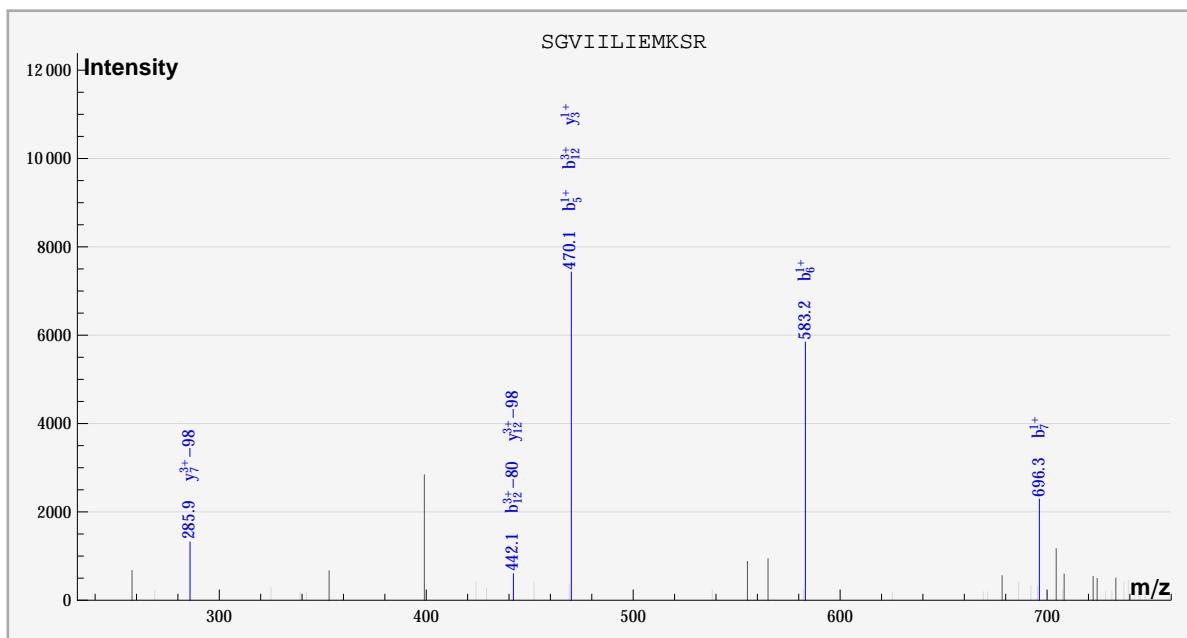
	#	b	b*	#	y	y*	P	P*
S	1							✓
G	2			11				
V	3			10				
I	4			9				
I	5	✓		8				
L	6	✓		7		✓		
I	7	✓		6				
E	8			5				
M	9			4				
K	10			3	✓			
S	11			2				
R	12	✓	✓	1				

S G V I I L I E M K S R
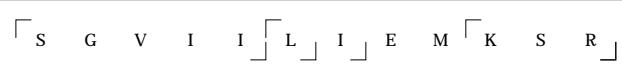
dbValid true RMKLMGLINTR Oxidation_M(1),PHOS(1) 2. 716. −1.13563 5.04113 100. ? 2106.
S_Acido_new%gi|68567337|gb|AAY80266.1| RMKLMGLINTR%::Oxidation_M:::::::PHOS::%sample_3%cmpd_784

RMKLMGLINTR

	#	b	b*	#	y	y*	P	P*
R	1							✓
M	2			10	✓	✓		
K	3			9		✓		
L	4	✓		8				
M	5			7	✓	✓		
G	6			6	✓	✓		
L	7	✓		5	✓			
I	8	✓		4	✓	✓		
N	9			3	✓			
T	10			2				
R	11	✓	✓	1				

R M K L M G L I N T R

dbValid true RMKLMGLINTR Oxidation_M(1),PHOS(1) 2. 716. −1.13563 5.10727 100. ? 2532.
S_Acido_new%gi|68567337|gb|AAY80266.1| RMKLMGLINTR%:::::Oxidation_M:::::PHOS::%sample_0%cmpd_1125

	♯	b	b*	♯	y	y*	P	P*
R	1							
M	2			10				
K	3			9				
L	4			8				
M	5			7				
G	6	✓		6		✓		
L	7			5	✓	✓		
I	8			4		✓		
N	9			3		✓		
T	10			2	✓			
R	11			1				
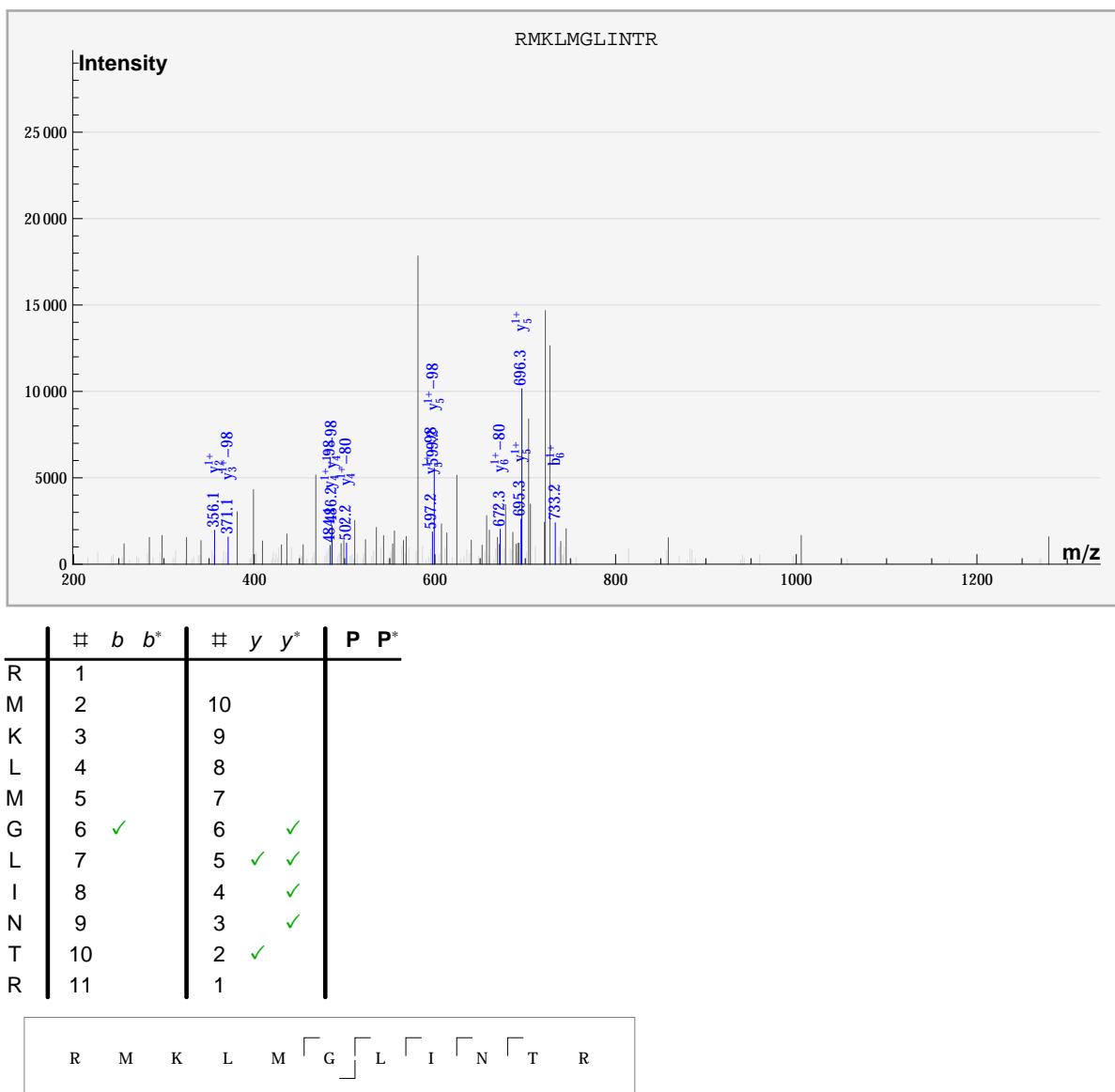
R M K L M ⌐G⌐ L ⌐I ⌐N ⌐T R

dbValid true RMKLMGLINTR Oxidation_M(1),PHOS(1) 2. 716. −1.13563 5.36872 100. ? 3198.
  S_Acido_new%gi|68567337|gb|AAY80266.1| RMKLMGLINTR%::Oxidation_M:::::::PHOS::%sample_0%cmpd_1693

RMKLMGLINTR

	#	b	b*	#	y	y*	P	P*
R	1							
M	2			10		✓		
K	3			9		✓		
L	4			8				
M	5			7				
G	6	✓		6				
L	7			5	✓	✓		
I	8			4	✓			
N	9			3	✓			
T	10			2				
R	11	✓		1				

R M K L M G L I N T R

dbValid true RMKLMGLINTR Oxidation_M(1),PHOS(1) 2. 716. −1.13563 5.68695 100. ? 3288.
  S_Acido_new%gi|68567337|gb|AAY80266.1| RMKLMGLINTR%::Oxidation_M::::::::PHOS::%sample_0%cmpd_1767

	#	b	b*	#	y	y*	P	P*
R	1							
M	2			10				
K	3			9				
L	4			8				
M	5	✓		7				
G	6	✓		6	✓			
L	7			5	✓	✓		
I	8			4	✓			
N	9			3	✓			
T	10			2				
R	11	✓		1				

R   M   K   L   M   G   L   I   N   T   R

dbValid true DVSDAK PHOS(1) 1. 716. −1.72946 5.44583 100. ? 3486.
   S_Acido_new%gi|68567940|gb|AAY80869.1| DVSDAK%:::PHOS::::%sample_3%cmpd_2045
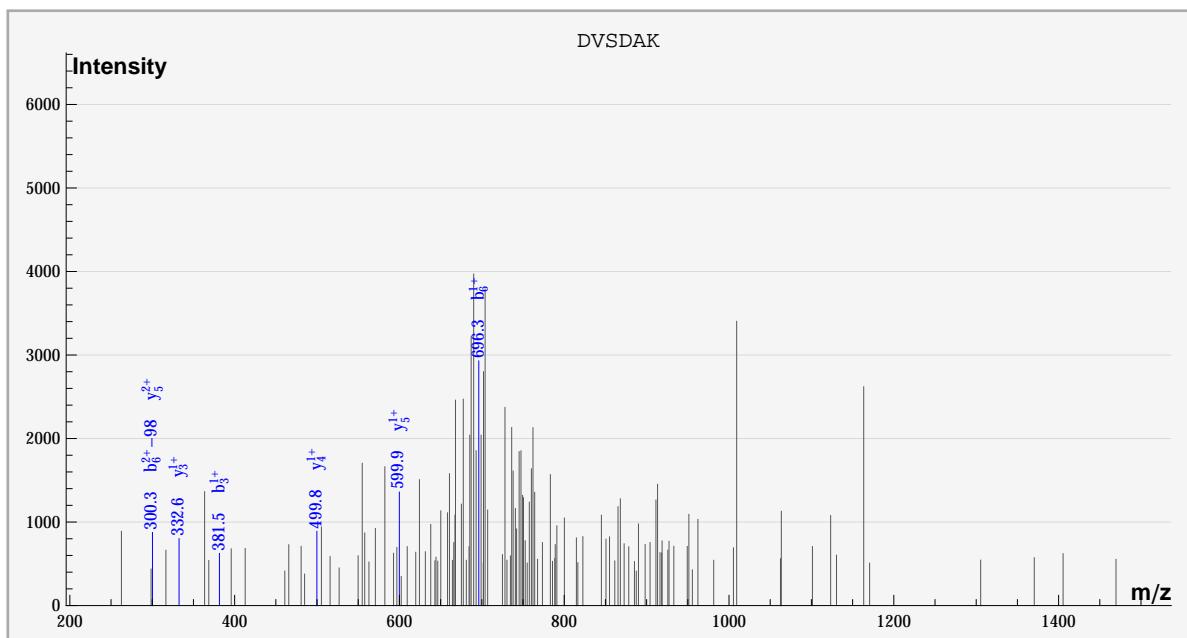
	♯	b	b*	♯	y	y*	P	P*
D	1							
V	2			5	✓			
S	3	✓		4	✓			
D	4			3	✓			
A	5			2				
K	6	✓	✓	1				
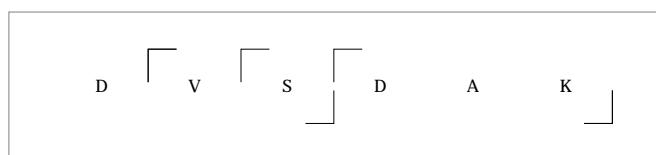
dbValid true IFSVGI PHOS(1) 1. 717. −1.65742 5.28445 100. ? 3090.
S_Acido_new%gi|68567569|gb|AAY80498.1| IFSVGI%:::PHOS::::%sample_0%cmpd_1600

	♯	b	b*	♯	y	y*	P	P*
I	1							✓
F	2			5	✓	✓		
S	3			4	✓			
V	4			3				
G	5	✓	✓	2				
I	6	✓	✓	1				
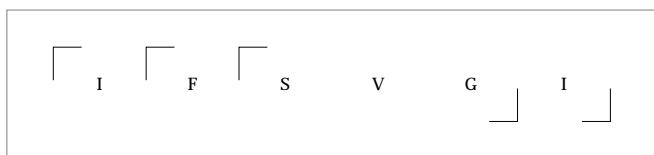
dbValid true IFSVGI PHOS(1) 1. 717. −1.65742 5.17123 100. ? 3756.
  S_Acido_new%gi|68567569|gb|AAY80498.1| IFSVGI%:::PHOS::::%sample_3%cmpd_2290

	♯	b	b*	♯	y	y*	P	P*
I	1							✓
F	2			5	✓	✓		
S	3			4	✓			
V	4			3	✓			
G	5		✓	2				
I	6	✓	✓	1				

dbValid true VYYIAELCDK Cys_CAM(1),PHOS(2) 2. 718. −0.723413 5.0751 100. ? 1356.
  S_Acido_new%gi|68568248|gb|AAY81177.1| VYYIAELCDK%::PHOS:PHOS:::::Cys_CAM:::%sample_0%cmpd_108

	♯	b	b*	♯	y	y*	P	P*
V	1							✓
Y	2			9	✓	✓		
Y	3		✓	8				
I	4	✓	✓	7	✓			
A	5		✓	6	✓			
E	6		✓	5	✓			
L	7		✓	4	✓			
C	8		✓	3				
D	9			2				
K	10		✓	1				

V Y Y I A E L C D K

dbValid true MYETIKLETK Oxidation_M(1),PHOS(2) 2. 718. −1.70248 5.03974 100. ? 1542.
S_Acido_new%gi|68568643|gb|AAY81572.1| MYETIKLETK%:Oxidation_M:::PHOS:::::PHOS::%sample_0%cmpd_265
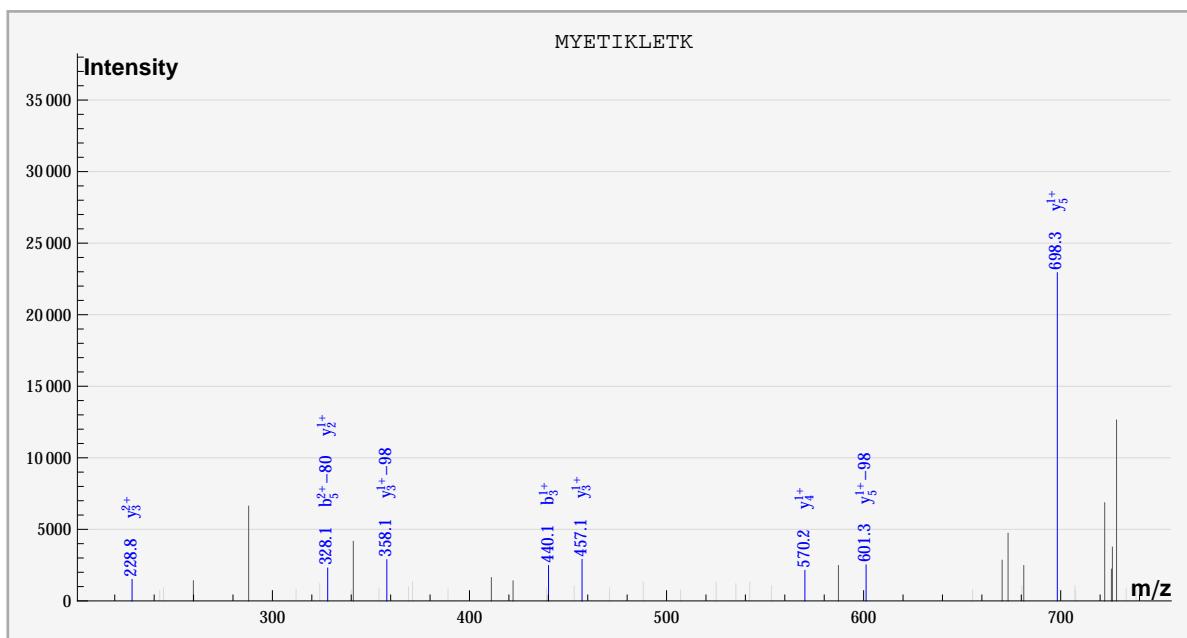
MYETIKLETK

	#	b	b*	#	y	y*	P	P*
M	1							
Y	2			9				
E	3	✓		8				
T	4			7				
I	5		✓	6				
K	6			5	✓	✓		
L	7			4	✓			
E	8			3	✓	✓		
T	9			2	✓			
K	10			1				

M Y E T I K L E T K

dbValid true LRKYVAFTTTR PHOS(1) 2. 718. 0.376487 5.17428 100. ? 2820.
  S_Acido_new%gi|68566708|gb|AAY79637.1| LRKYVAFTTTR%::::::::::PHOS:::%sample_3%cmpd_1439
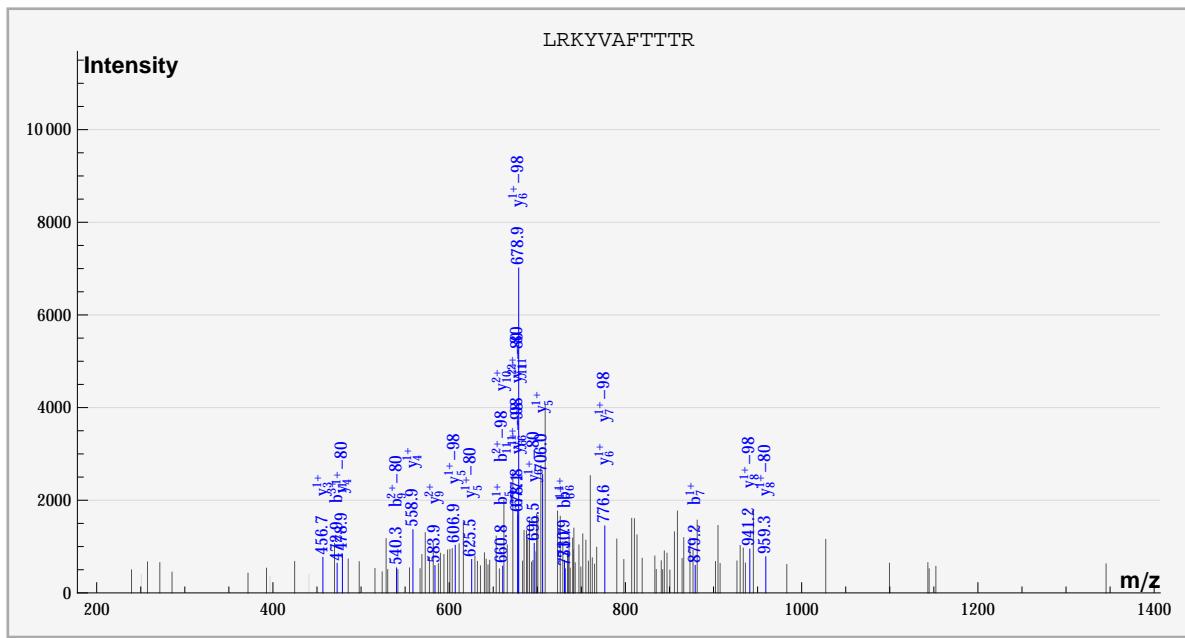
♯	b	b*		♯	y	y*		P	P*
L	1								✓
R	2			10	✓				
K	3			9	✓				
Y	4			8		✓			
V	5	✓		7		✓			
A	6	✓		6	✓	✓			
F	7	✓		5	✓	✓			
T	8			4	✓	✓			
T	9		✓	3	✓				
T	10			2					
R	11	✓	✓	1					

⌐L ⌐R ⌐K ⌐Y ⌐V ⌐A ⌐F ⌐T ⌐T T R

dbValid true EFYYWTMR PHOS(3) 2. 718. 0.215142 5.5612 100. ? 5064.
S_Acido_new%gi|68567662|gb|AAY80591.1| EFYYWTMR%:::PHOS:PHOS::PHOS:::%sample_3%cmpd_3476
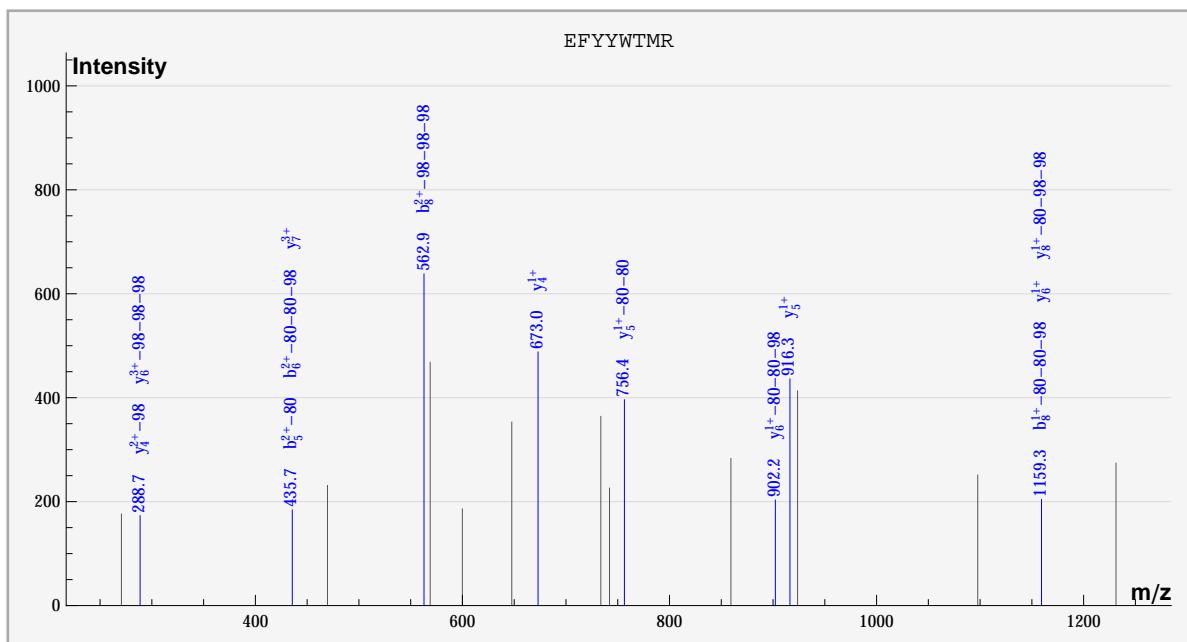
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
E	1							✓
F	2			7	✓			
Y	3			6	✓	✓		
Y	4			5	✓	✓		
W	5		✓	4	✓	✓		
T	6		✓	3				
M	7			2				
R	8		✓	1				
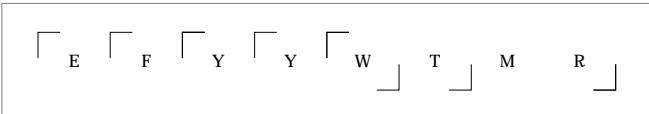
dbValid true YIEETINSVKR PHOS(1) 2. 718.1 −1.75241 5.00377 100. ? 3570.
S_Acido_new%gi|68568048|gb|AAY80977.1| YIEETINSVKR%:PHOS::::::::::%sample_1%cmpd_2354

	#	b	b*	#	y	y*	P	P*
Y	1						✓	✓
I	2			10				
E	3		✓	9				
E	4			8		✓		
T	5	✓	✓	7				
I	6	✓	✓	6		✓		
N	7	✓	✓	5				
S	8		✓	4		✓		
V	9			3		✓		
K	10		✓	2				
R	11		✓	1				
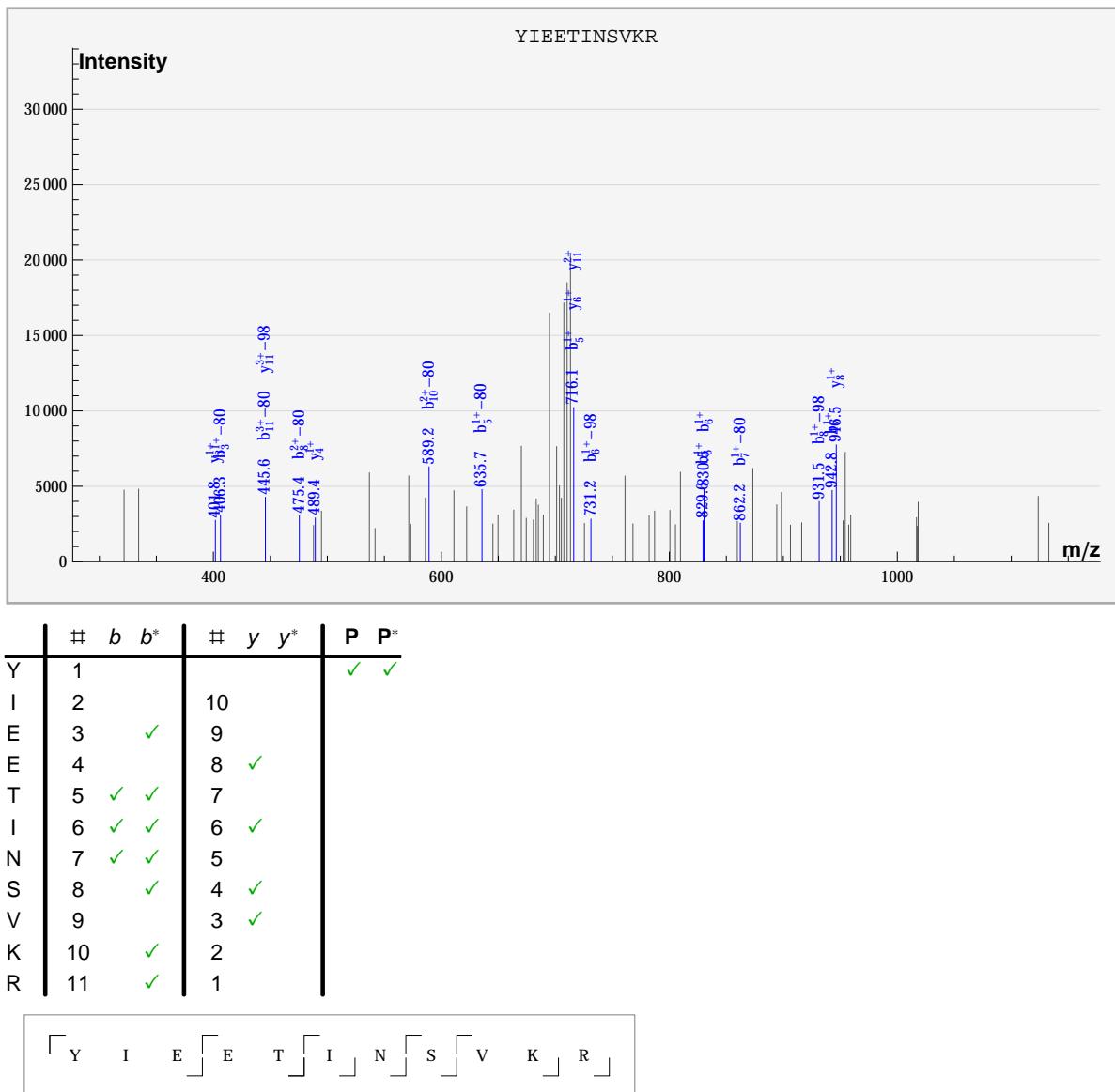
dbValid true VYYIAELCDK Cys_CAM(1),PHOS(2) 2. 719. −1.72341 5.39347 100. ? 2958.
S_Acido_new%gi|68568248|gb|AAY81177.1| VYYIAELCDK%::PHOS:PHOS:::::Cys_CAM:::%sample_0%cmpd_1490

VYYIAELCDK

#	b	b*	#	y	y*	P	P*
V	1						
Y	2			9			
Y	3	✓		8			
I	4	✓	✓	7			
A	5		✓	6	✓		
E	6		✓	5			
L	7			4			
C	8			3			
D	9			2			
K	10			1			

V   Y   Y   I   A   E   L   C   D   K

YWDDNNIYKK

	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
W	2			9				
D	3			8	✓			
D	4			7	✓	✓		
N	5	✓		6				
N	6			5	✓	✓		
I	7	✓		4	✓			
Y	8			3	✓			
K	9	✓		2				
K	10		✓	1				

dbValid true KYIAVGSSEVPK PHOS(2) 2. 721. −1.67508 5.14888 100. ? 2448.
S_Acido_new%gi|68567822|gb|AAY80751.1| KYIAVGSSEVPK%::PHOS::::::PHOS:::::%sample_1%cmpd_1037
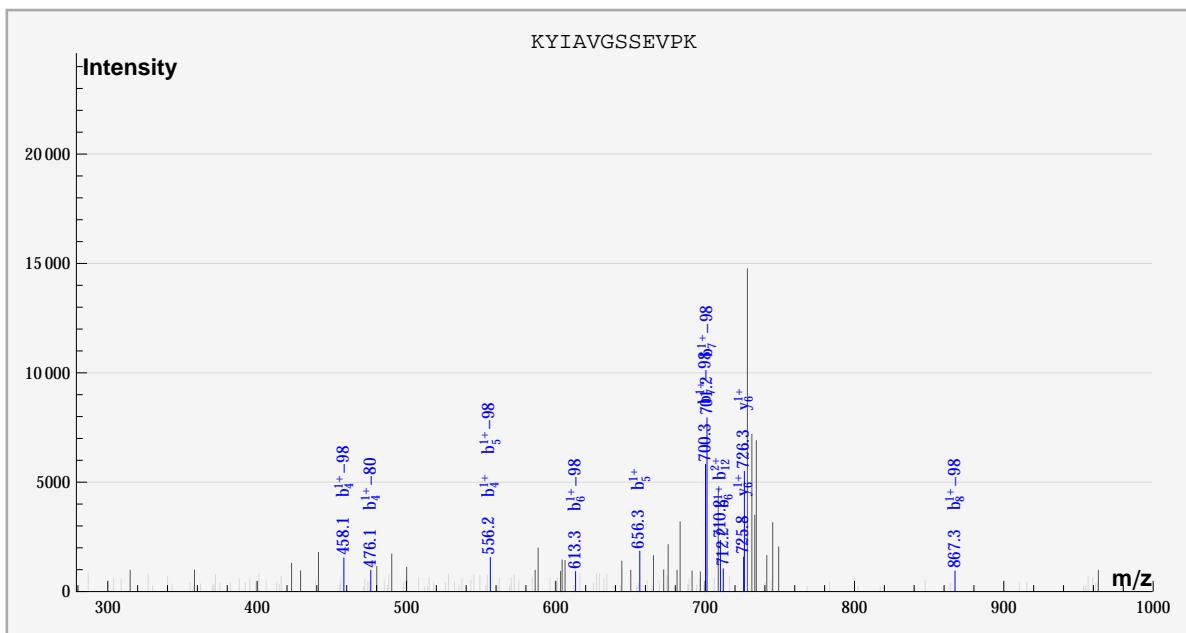
	#	b	b*		#	y	y*		P	P*
K	1									
Y	2				11					
I	3				10					
A	4	✓	✓		9					
V	5	✓	✓		8					
G	6	✓	✓		7					
S	7		✓		6	✓				
S	8		✓		5					
E	9				4					
V	10				3					
P	11				2					
K	12	✓			1					

K Y I A V G S S E V P K

dbValid true FYNSTFFSLR PHOS(2) 2. 721. 0.283067 5.42008 100. ? 4662.
S_Acido_new%gi|68568068|gb|AAY80997.1| FYNSTFFSLR%::PHOS::PHOS:::::::%sample_1%cmpd_3115
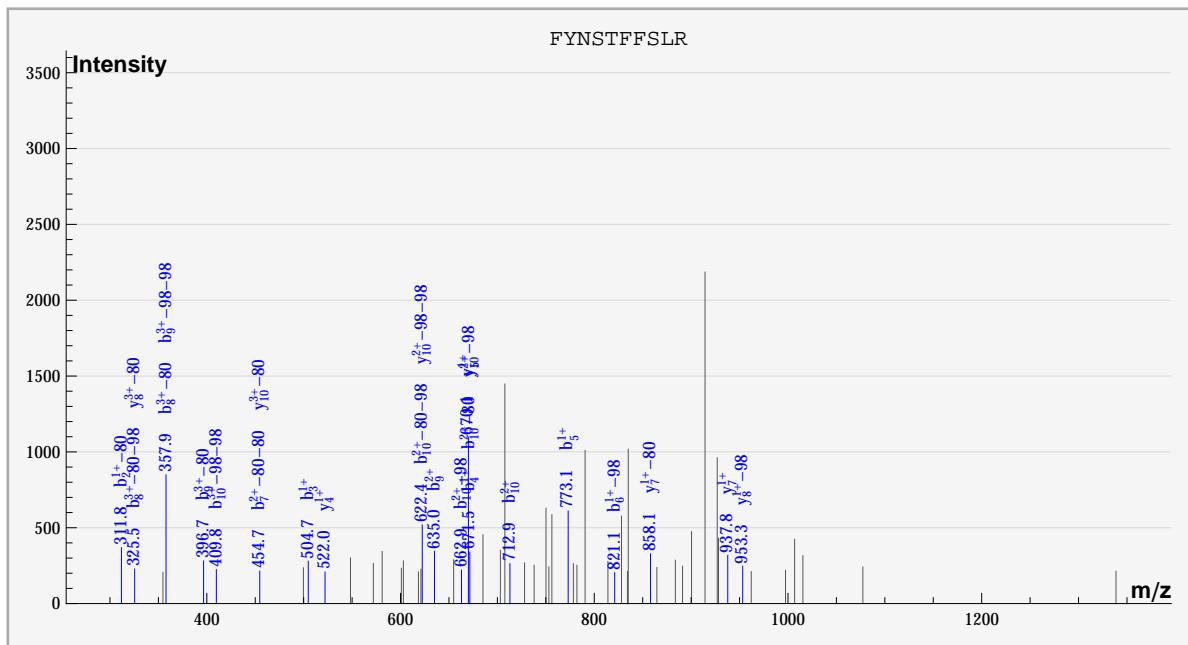
	♯	b	b*	♯	y	y*	P	P*
F	1							✓
Y	2		✓	9				
N	3	✓		8		✓		
S	4	✓		7	✓	✓		
T	5	✓		6				
F	6		✓	5	✓			
F	7		✓	4	✓			
S	8		✓	3				
L	9	✓	✓	2				
R	10	✓	✓	1				

dbValid true TRNDMISILRK Oxidation_M(1),PHOS(1) 2. 722.02 −0.157118 5.28391 100. ? 4206.
S_Acido_new%gi|68568642|gb|AAY81571.1| TRNDMISILRK%:PHOS::::Oxidation_M::::::::%sample_1%cmpd_3005
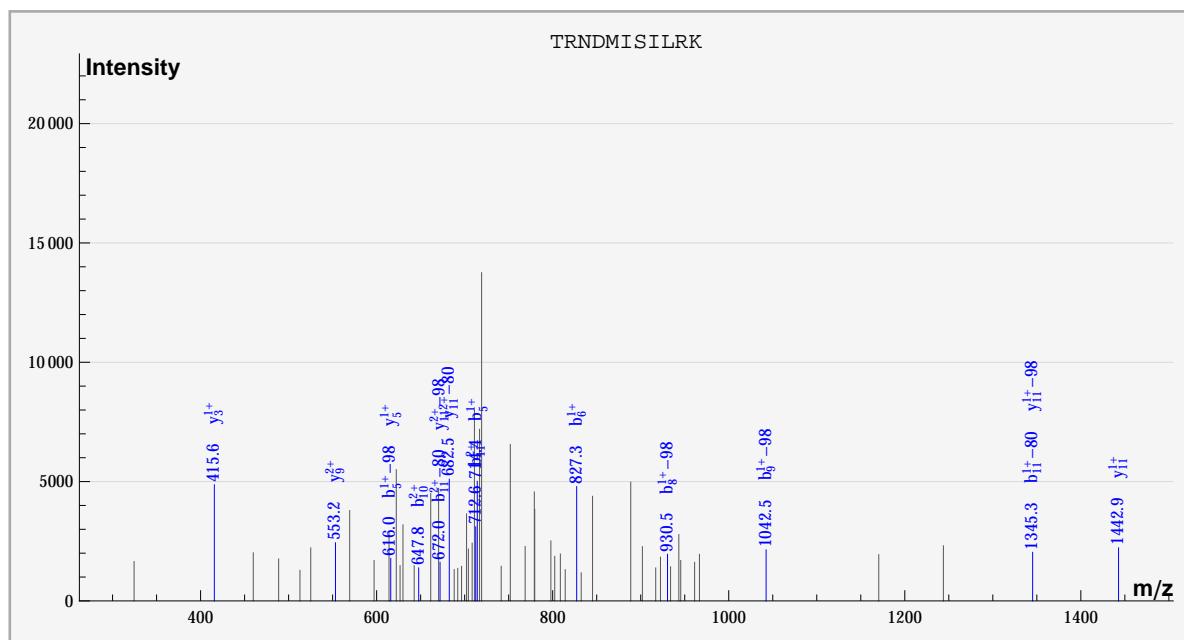
	♯	b	b*	♯	y	y*	P	P*
T	1						✓	✓
R	2			10				
N	3			9	✓			
D	4			8				
M	5	✓	✓	7				
I	6	✓		6				
S	7			5	✓			
I	8		✓	4				
L	9		✓	3	✓			
R	10	✓		2				
K	11	✓	✓	1				

dbValid true RMKLMGLINTR Oxidation_M(2),PHOS(1) 2. 723. −0.138178 5.20206 100. ? 2712.
    S_Acido_new%gi|68567337|gb|AAY80266.1| RMKLMGLINTR%::Oxidation_M:::Oxidation_M:::::PHOS::%sample_1%cmpd_1335

	#	b	b*	#	y	y*	P	P*
R	1							✓
M	2			10				
K	3			9	✓			
L	4			8				
M	5	✓		7	✓			
G	6	✓		6	✓	✓		
L	7			5		✓		
I	8			4	✓			
N	9	✓		3				
T	10			2	✓			
R	11		✓	1				

dbValid true YYEMYNSR PHOS(4) 2. 724. −0.830263 5.61354 100. ? 1764.
S_Acido_new%gi|68567117|gb|AAY80046.1| YYEMYNSR%:PHOS:PHOS:::PHOS::PHOS::%sample_1%cmpd_474
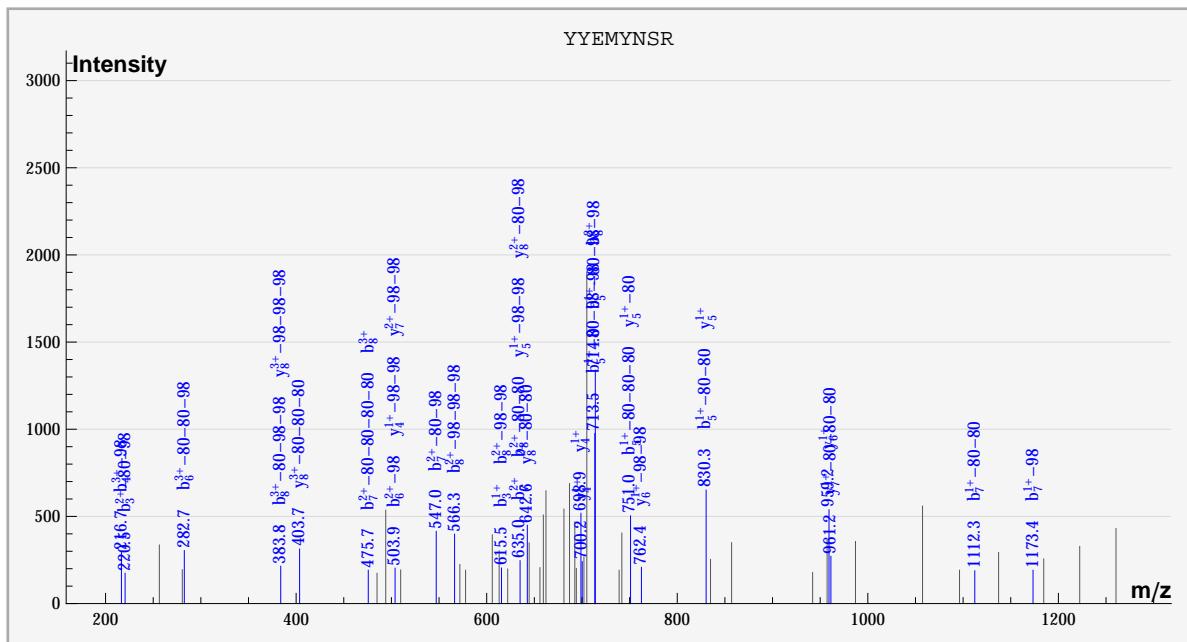
	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
Y	2			7		✓		
E	3	✓	✓	6	✓	✓		
M	4		✓	5	✓	✓		
Y	5		✓	4	✓	✓		
N	6		✓	3				
S	7	✓	✓	2				
R	8	✓	✓	1				
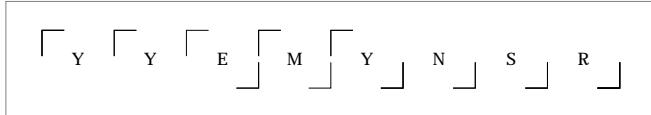
dbValid   true   LLPTMTTGSSKR   PHOS(2)   2.   725.   1.32187   5.32778   100.   ?   2562.
S_Acido_new%gi|68568308|gb|AAY81237.1| LLPTMTTGSSKR%::::PHOS:::::PHOS::::%sample_1%cmpd_1205

LLPTMTTGSSKR

	♯	*b*	*b**		♯	*y*	*y**		**P**	**P***
L	1									✓
L	2				11	✓				
P	3				10	✓				
T	4				9		✓			
M	5				8					
T	6	✓	✓		7	✓	✓			
T	7	✓	✓		6	✓				
G	8	✓	✓		5	✓				
S	9		✓		4	✓				
S	10		✓		3					
K	11	✓			2					
R	12		✓		1					

L L P T M T T G S S K R

dbValid true MTIKVINISKK Oxidation_M(1),PHOS(2) 2. 725. 0.860617 6.41628 100. ? 2688.
  S_Acido_new%gi|68567455|gb|AAY80384.1| MTIKVINISKK%:Oxidation_M:PHOS:::::::PHOS:::%sample_1%cmpd_1316

	#	b	b*	#	y	y*	P	P*
M	1							✓
T	2	✓		10	✓	✓		
I	3			9		✓		
K	4		✓	8		✓		
V	5	✓		7	✓	✓		
I	6	✓	✓	6	✓	✓		
N	7	✓	✓	5	✓			
I	8		✓	4				
S	9			3				
K	10	✓	✓	2				
K	11	✓		1				

M T I K V I N I S K K

dbValid true RHYELGSIIRK PHOS(1) 2. 725. 1.37956 5.56418 100. ? 3510.
 S_Acido_new%gi|68568598|gb|AAY81527.1| RHYELGSIIRK%:::PHOS:::::::::%sample_1%cmpd_2066
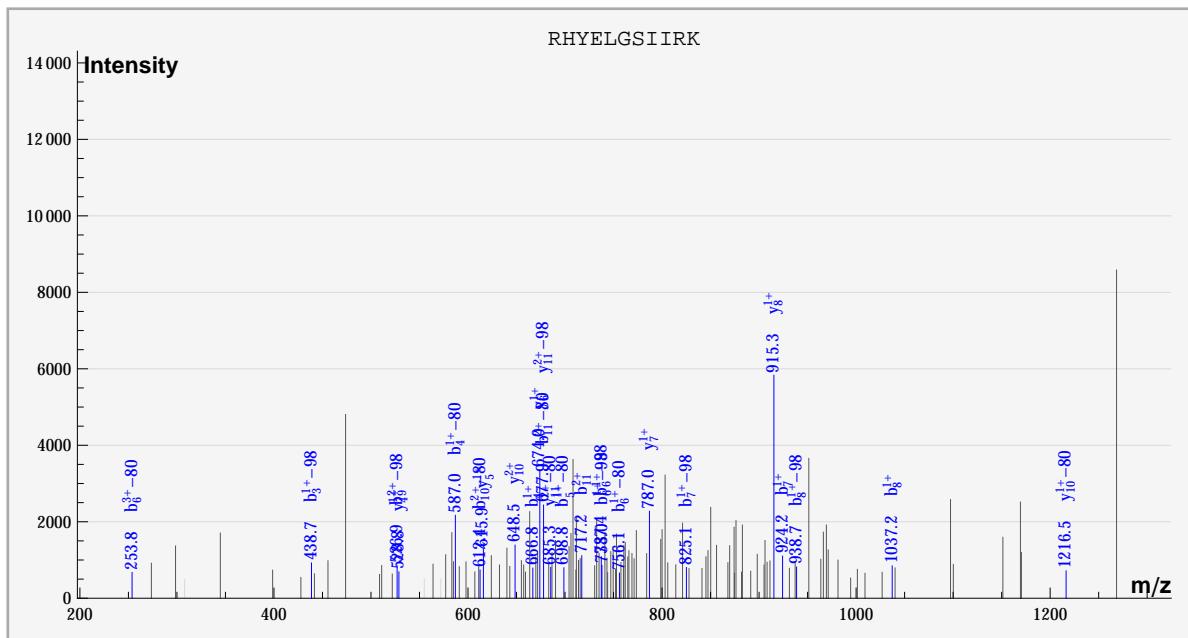
	#	*b*	*b**	#	*y*	*y**	**P**	**P**
R	1							✓
H	2			10	✓	✓		
Y	3		✓	9				
E	4	✓	✓	8	✓			
L	5		✓	7	✓			
G	6		✓	6	✓			
S	7	✓	✓	5	✓			
I	8	✓	✓	4	✓			
I	9		✓	3				
R	10		✓	2				
K	11	✓	✓	1				
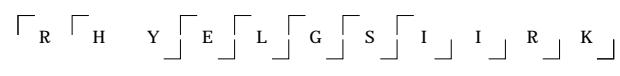
dbValid true MGVRAEEIEYR Oxidation_M(1),PHOS(1) 2. 725. −0.184408 6.31461 100. ? 4182.
   S_Acido_new%gi|68568482|gb|AAY81411.1| MGVRAEEIEYR%:Oxidation_M::::::::::PHOS::%sample_1%cmpd_2677

	#	b	b*	#	y	y*	P	P*
M	1							
G	2			10				
V	3			9				
R	4			8				
A	5			7				
E	6	✓		6	✓			
E	7	✓		5	✓			
I	8	✓		4	✓			
E	9			3		✓		
Y	10		✓	2				
R	11			1				

dbValid true MGVRAEEIEYR Oxidation_M(1),PHOS(1) 2. 726. −1.18441 5.35209 100. ? 624.
   S_Acido_new%gi|68568482|gb|AAY81411.1| MGVRAEEIEYR%:Oxidation_M:::::::::PHOS::%sample_1%cmpd_3837
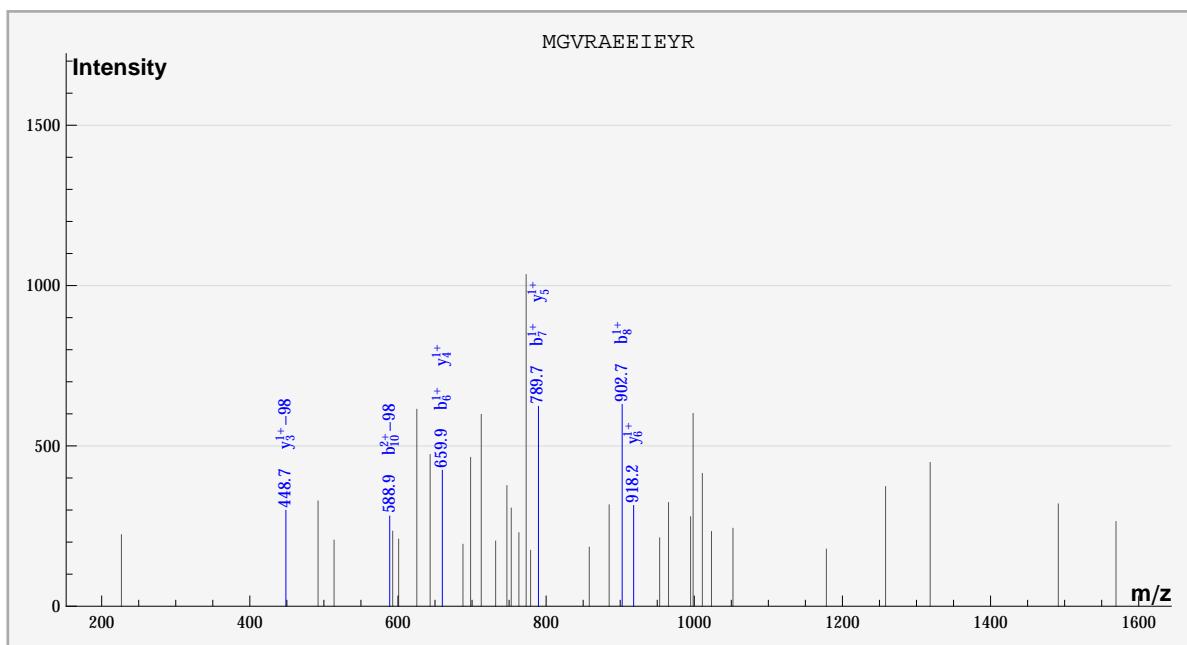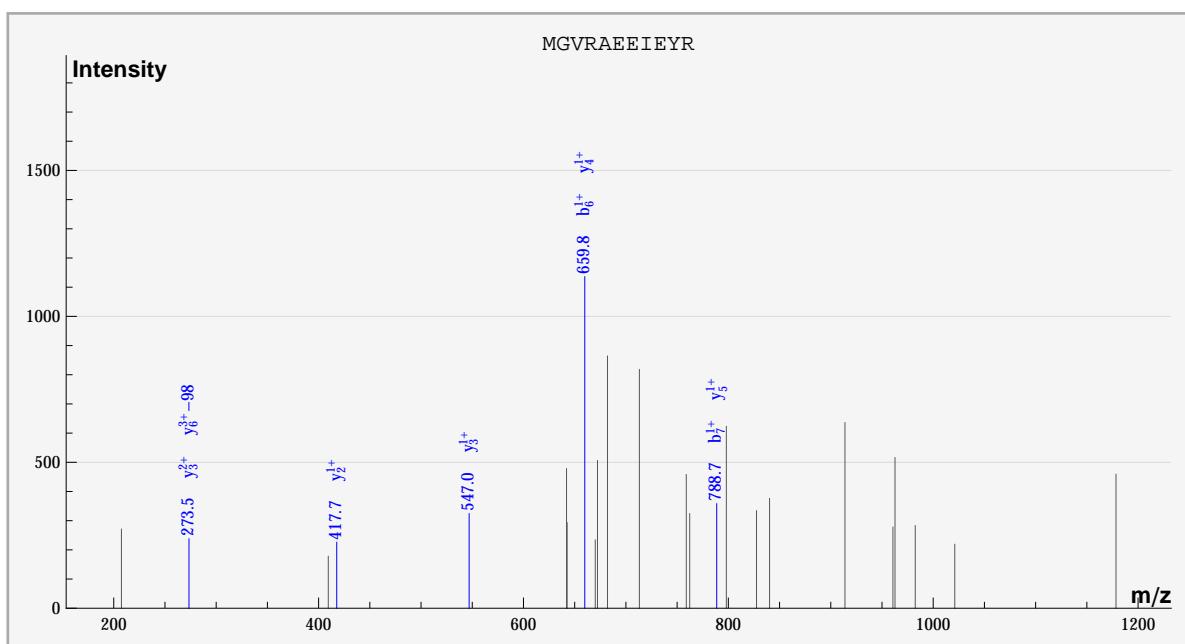
	♯	b	b*	♯	y	y*	P	P*
M	1							
G	2			10				
V	3			9				
R	4			8				
A	5			7				
E	6	✓		6		✓		
E	7	✓		5	✓			
I	8			4	✓			
E	9			3	✓			
Y	10			2	✓			
R	11			1				

M G V R A E E I E Y R

dbValid true KYNVILSDYPR PHOS(1) 2. 726. −1.64732 5.12318 100. ? 2142.
S_Acido_new%gi|68567657|gb|AAY80586.1| KYNVILSDYPR%:::::::::PHOS:::%sample_1%cmpd_818
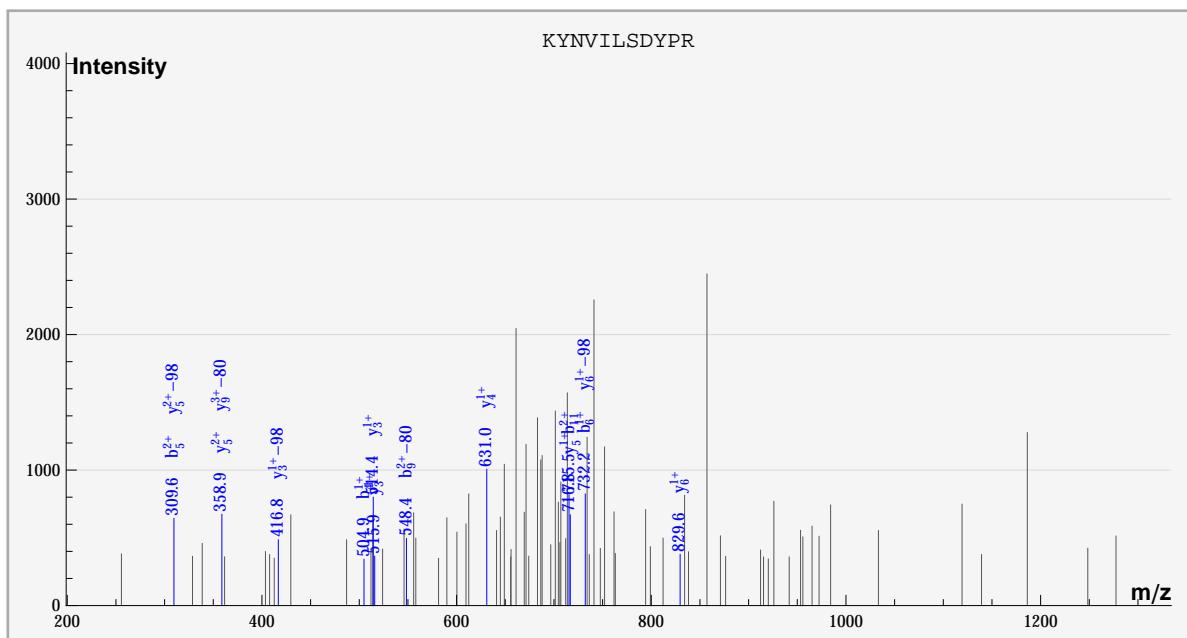
	♯	b	b*		♯	y	y*		P	P*
K	1									
Y	2				10					
N	3				9		✓			
V	4	✓			8					
I	5	✓			7					
L	6	✓			6	✓	✓			
S	7				5	✓	✓			
D	8				4	✓				
Y	9		✓		3	✓	✓			
P	10				2					
R	11	✓			1					

K   Y   N   V   I   L   S   D   Y   P   R

dbValid true IYTIGAPRYR PHOS(3) 2. 726. −0.709978 5.15964 100. ? 2178.
  S_Acido_new%gi|68567688|gb|AAY80617.1| IYTIGAPRYR%::PHOS:PHOS::::::PHOS::%sample_1%cmpd_851
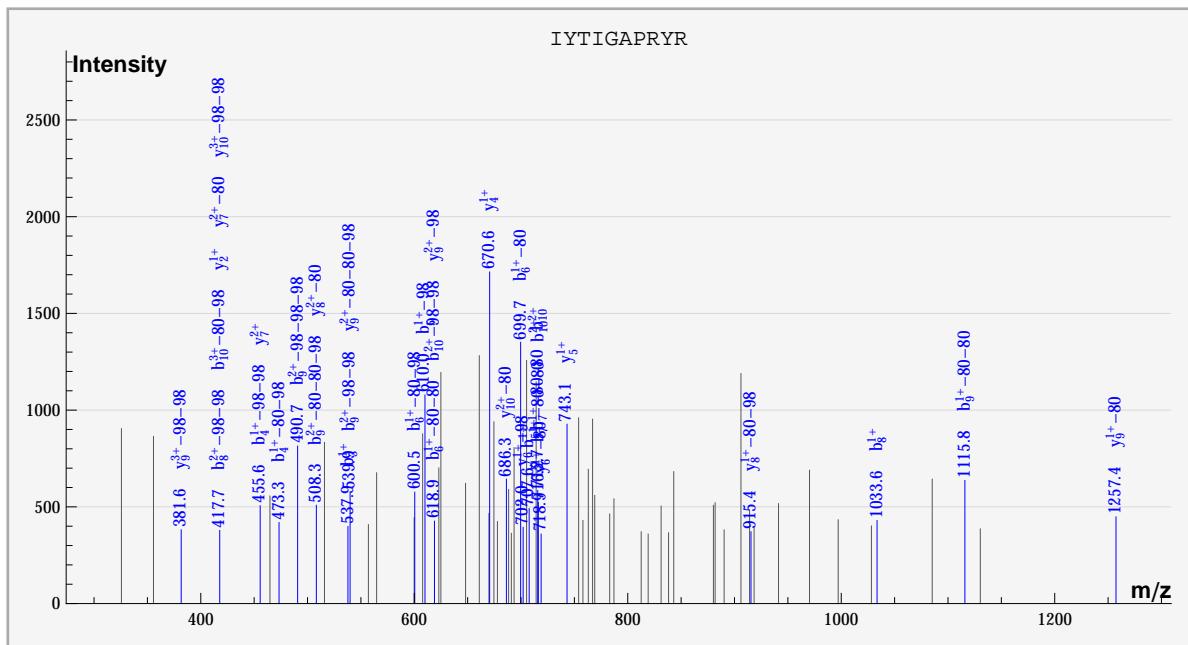
	♯	b	b*	♯	y	y*	P	P*
I	1							✓
Y	2			9		✓		
T	3	✓		8		✓		
I	4		✓	7	✓	✓		
G	5	✓	✓	6		✓		
A	6		✓	5	✓			
P	7		✓	4	✓			
R	8	✓	✓	3				
Y	9		✓	2	✓			
R	10	✓	✓	1				

I Y T I G A P R Y R

dbValid true LLYKSGFRMPR PHOS(1) 2. 726. −1.63239 5.60041 100. ? 2502.
S_Acido_new%gi|68568668|gb|AAY81597.1| LLYKSGFRMPR%:::PHOS::::::::::%sample_1%cmpd_1151
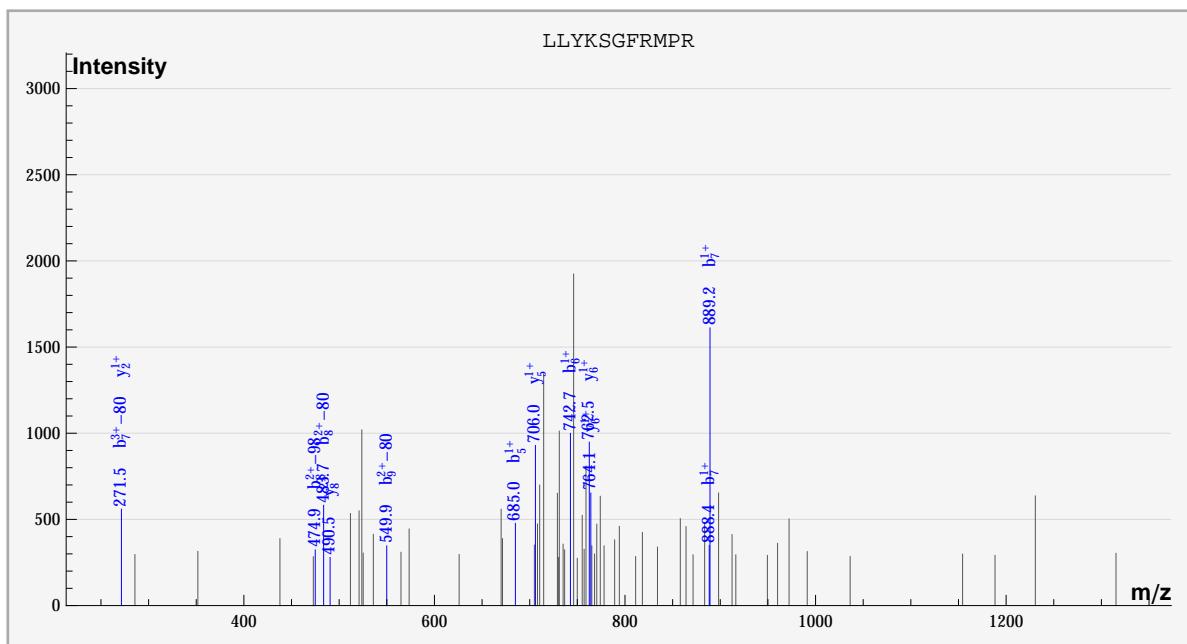
	♯	b	b*	♯	y	y*	P	P*
L	1							
L	2			10				
Y	3			9				
K	4			8	✓			
S	5	✓		7				
G	6	✓		6	✓			
F	7	✓	✓	5	✓			
R	8		✓	4				
M	9		✓	3				
P	10			2	✓			
R	11			1				

L L Y K S G F R M P R
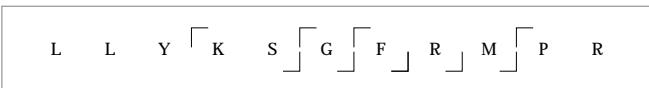
dbValid true KPNTTS PHOS(1) 1. 726. 1.3022 5.01045 100. ? 2676.
   S_Acido_new%gi|68567968|gb|AAY80897.1| KPNTTS%:::::PHOS::%sample_1%cmpd_1305

	#	b	b*	#	y	y*	P	P*
K	1							✓
P	2			5	✓	✓		
N	3			4	✓	✓		
T	4	✓		3	✓			
T	5			2	✓			
S	6	✓	✓	1				
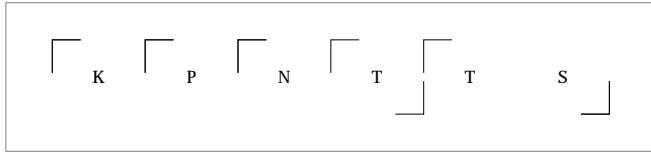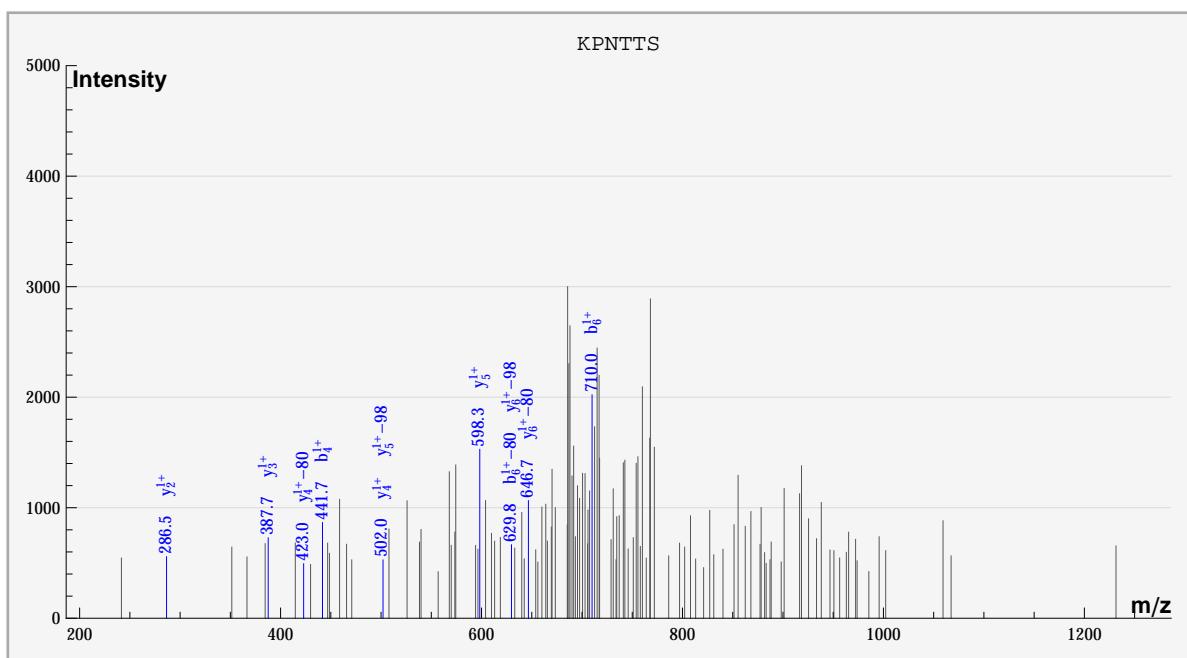
dbConflictWinner true LLLSILPYETK PHOS(2) 2. 727. −1.64431 5.73944 100. ? 1650.
  S_Acido_new%gi|68567386|gb|AAY80315.1| LLLSILPYETK%::::PHOS::::::PHOS::%sample_1%cmpd_368

♯	b	b*	♯	y	y*	P	P*
L	1							✓
L	2			10				
L	3	✓		9				
S	4	✓		8		✓		
I	5	✓		7				
L	6	✓		6	✓	✓		
P	7	✓	✓	5	✓	✓		
Y	8			4	✓			
E	9			3				
T	10			2				
K	11	✓	✓	1				

L L L S I L P Y E T K
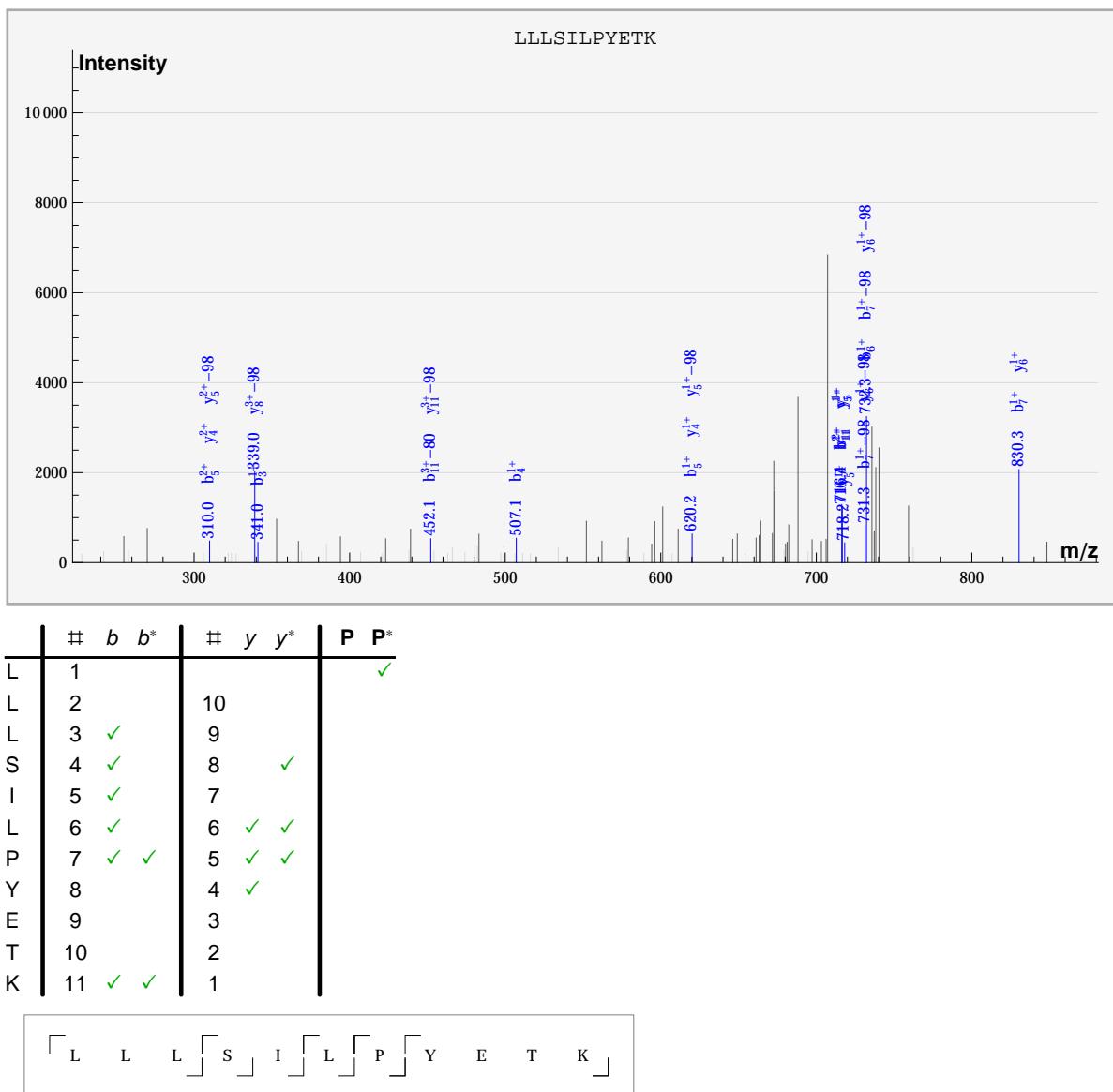
dbValid true FRSTGHGISAASGK PHOS(1) 2. 727. 1.34063 5.26894 100. ? 3198.
  S_Acido_new%gi|68567322|gb|AAY80251.1| FRSTGHGISAASGK%:::::::::::PHOS:::%sample_1%cmpd_1781
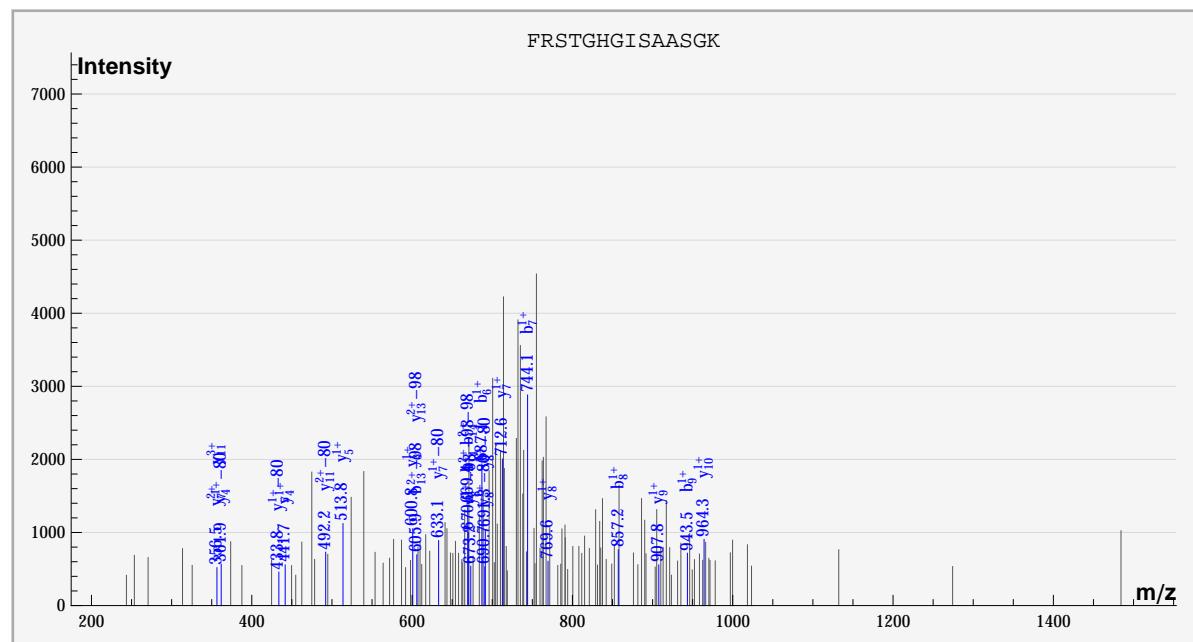
	♯	b	b*	♯	y	y*	P	P*
F	1							
R	2			13		✓		
S	3			12				
T	4			11	✓	✓		
G	5			10	✓			
H	6	✓		9	✓			
G	7	✓		8	✓	✓		
I	8	✓		7	✓	✓		
S	9	✓		6	✓			
A	10			5	✓	✓		
A	11			4	✓	✓		
S	12			3				
G	13		✓	2				
K	14		✓	1				

F ⌐R S ⌐T G ⌐H ⌐G ⌐I ⌐S ⌐A ⌐A S G⌐ K⌐

dbValid true LSQSIT PHOS(1) 1. 727. 1.3226 5.2106 100. ? 3612.
   S_Acido_new%gi|68568303|gb|AAY81232.1| LSQSIT%::::::PHOS:%sample_1%cmpd_2157
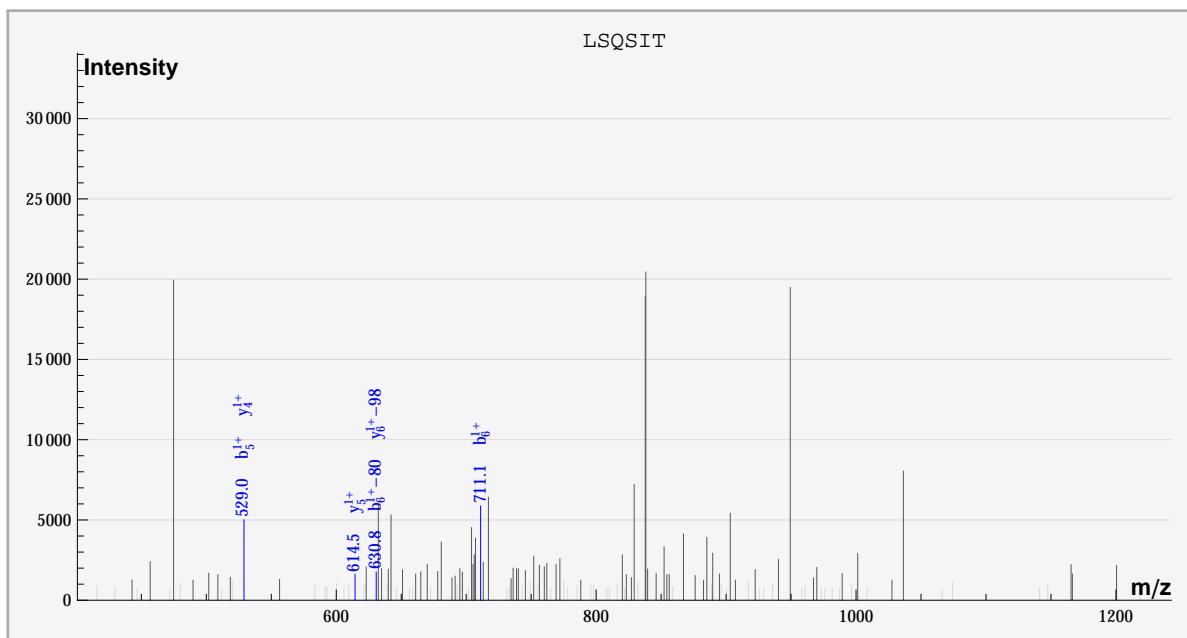
	♯	b	b*	♯	y	y*	P	P*
L	1							✓
S	2			5	✓			
Q	3			4	✓			
S	4			3				
I	5	✓		2				
T	6	✓	✓	1				
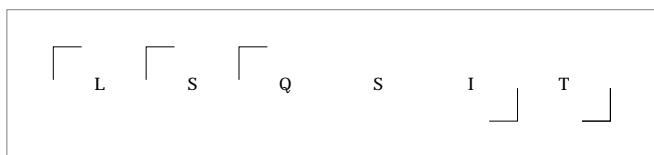
dbValid true ATVEDYGSICEK Cys_CAM(1),PHOS(1) 2. 728. −1.70838 5.37882 100. ? 3102.
   S_Acido_new%gi|68568008|gb|AAY80937.1| ATVEDYGSICEK%::::::::PHOS::Cys_CAM:::%sample_1%cmpd_1693

ATVEDYGSICEK
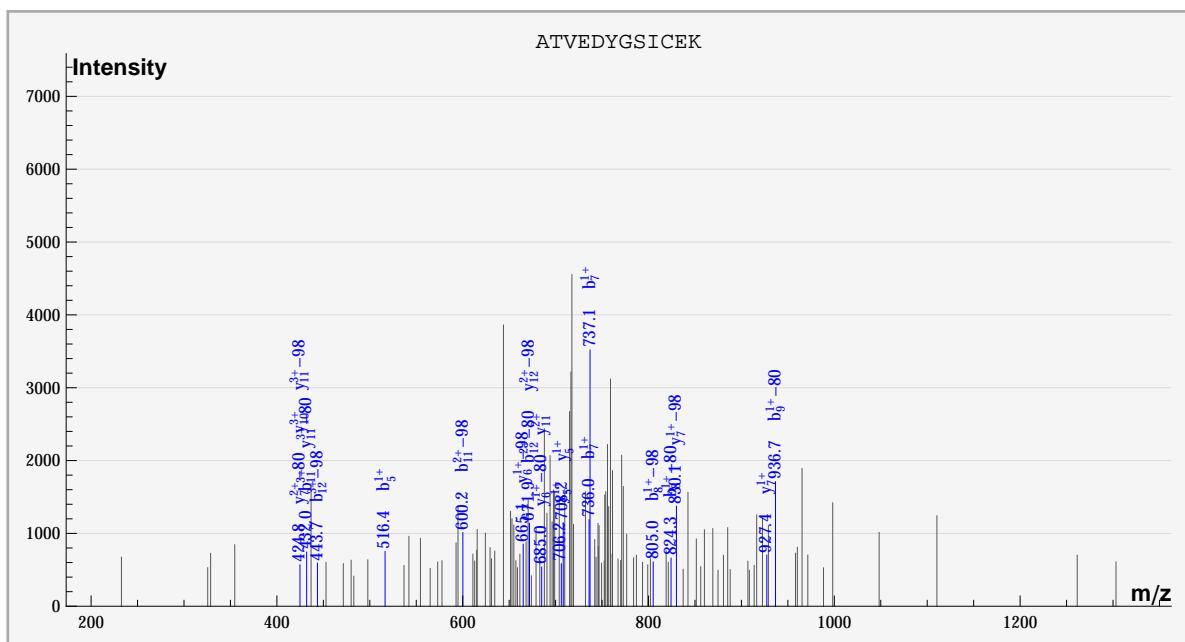
	#	b	b*	#	y	y*	P	P*
A	1							✓
T	2			11	✓	✓		
V	3			10	✓			
E	4			9				
D	5	✓		8				
Y	6			7	✓	✓		
G	7	✓		6		✓		
S	8		✓	5	✓			
I	9		✓	4				
C	10			3				
E	11	✓	✓	2				
K	12		✓	1				

A T V E D Y G S I C E K
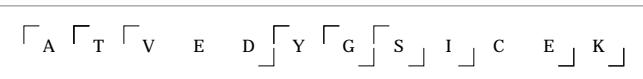
dbValid true EYVDVYDVMNK PHOS(1) 2. 729. −1.20091 5.63283 100. ? 78.
S_Acido_new%gi|68567694|gb|AAY80623.1| EYVDVYDVMNK%::::::PHOS::::::%sample_1%cmpd_3938
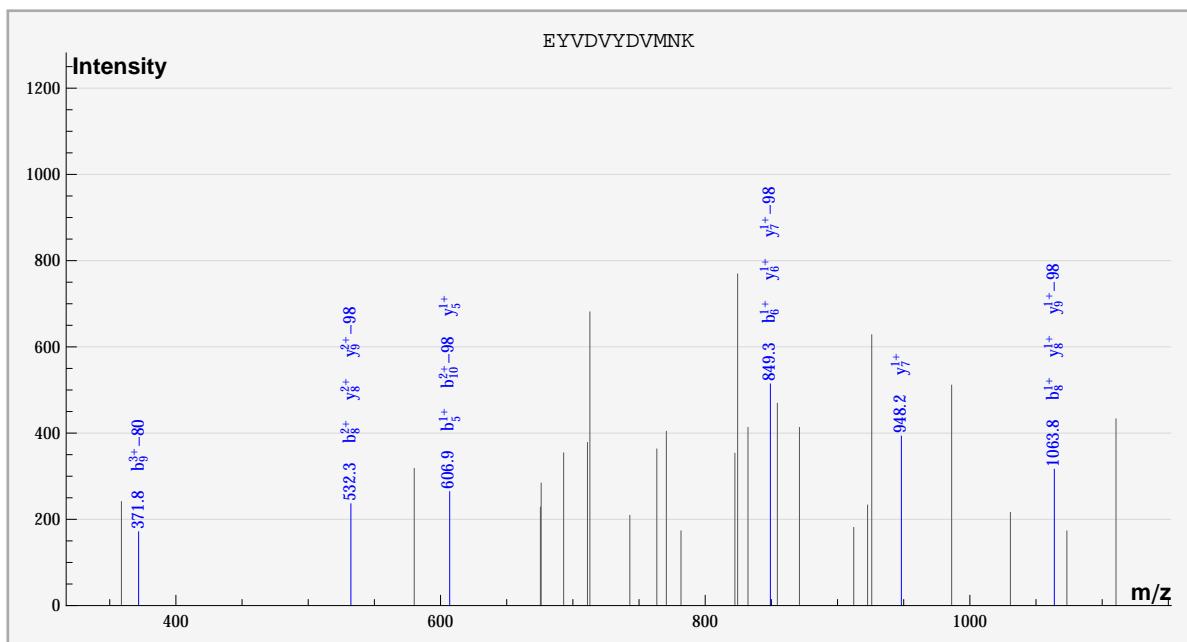
EYVDVYDVMNK

	♯	b	b*	♯	y	y*	P	P*
E	1							
Y	2			10				
V	3			9		✓		
D	4			8	✓			
V	5	✓		7	✓	✓		
Y	6	✓		6	✓			
D	7			5	✓			
V	8	✓		4				
M	9		✓	3				
N	10		✓	2				
K	11			1				

E   Y   V   D   V   Y   D   V   M   N   K

dbValid true KLLYYPLMVR PHOS(2) 2. 729. −0.652848 5.07369 100. ? 1410.
S_Acido_new%gi|68568283|gb|AAY81212.1| KLLYYPLMVR%::::PHOS:PHOS::::::%sample_1%cmpd_166

KLLYYPLMVR

	♯	b	b*	♯	y	y*	P	P*
K	1						✓	✓
L	2	✓		9				
L	3	✓		8		✓		
Y	4	✓	✓	7		✓		
Y	5		✓	6				
P	6	✓	✓	5				
L	7	✓	✓	4				
M	8		✓	3				
V	9		✓	2	✓			
R	10	✓	✓	1				

K L L Y Y P L M V R
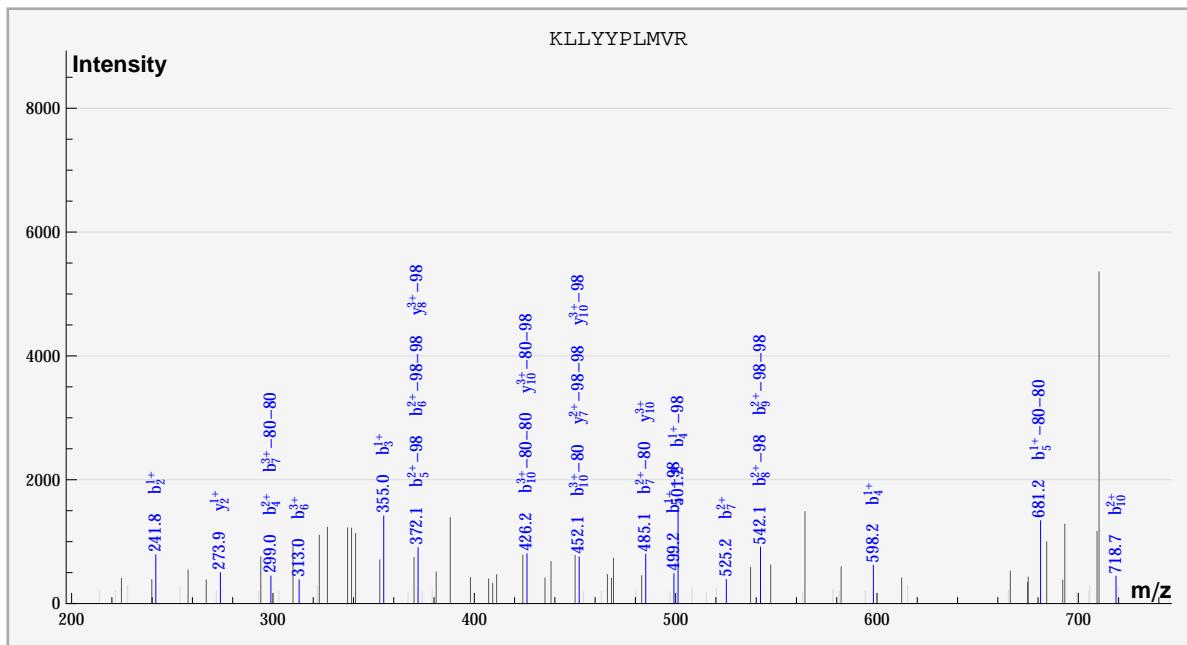
dbValid true GNESLK PHOS(1) 1. 729. −1.69782 5.26877 100. ? 2106.
S_Acido_new%gi|68568681|gb|AAY81610.1| GNESLK%::::PHOS:::%sample_1%cmpd_789
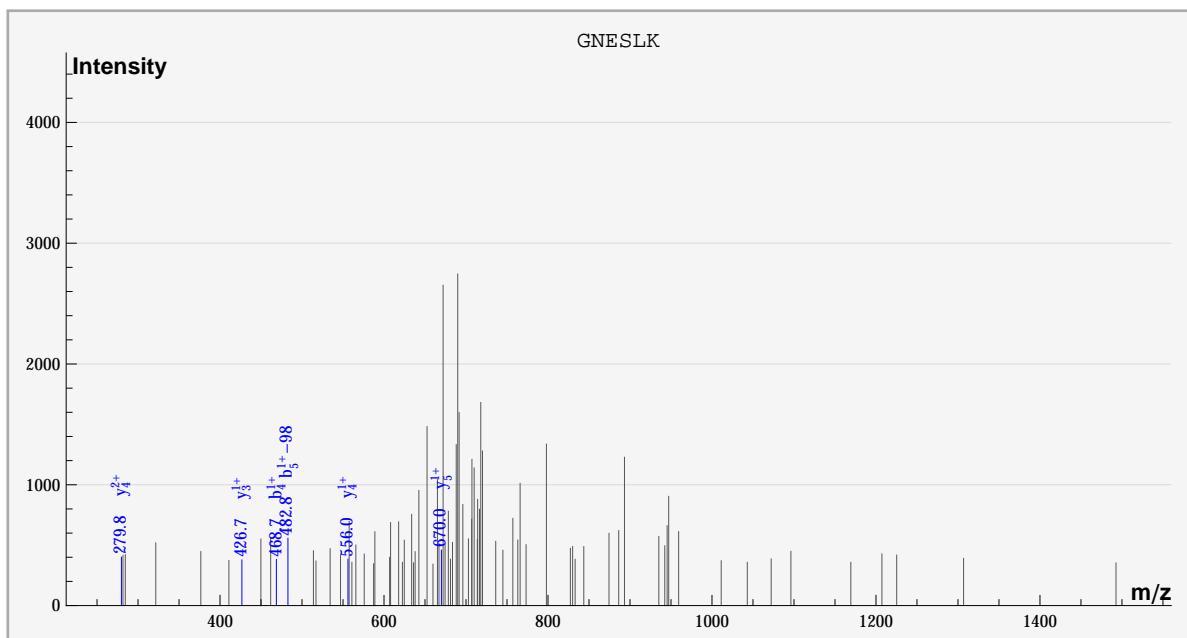
	♯	b	b*	♯	y	y*	P	P*
G	1							
N	2			5	✓			
E	3			4	✓			
S	4	✓		3	✓			
L	5		✓	2				
K	6			1				
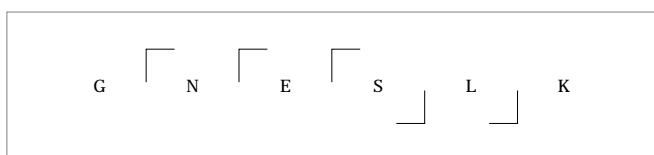
G N E S L K
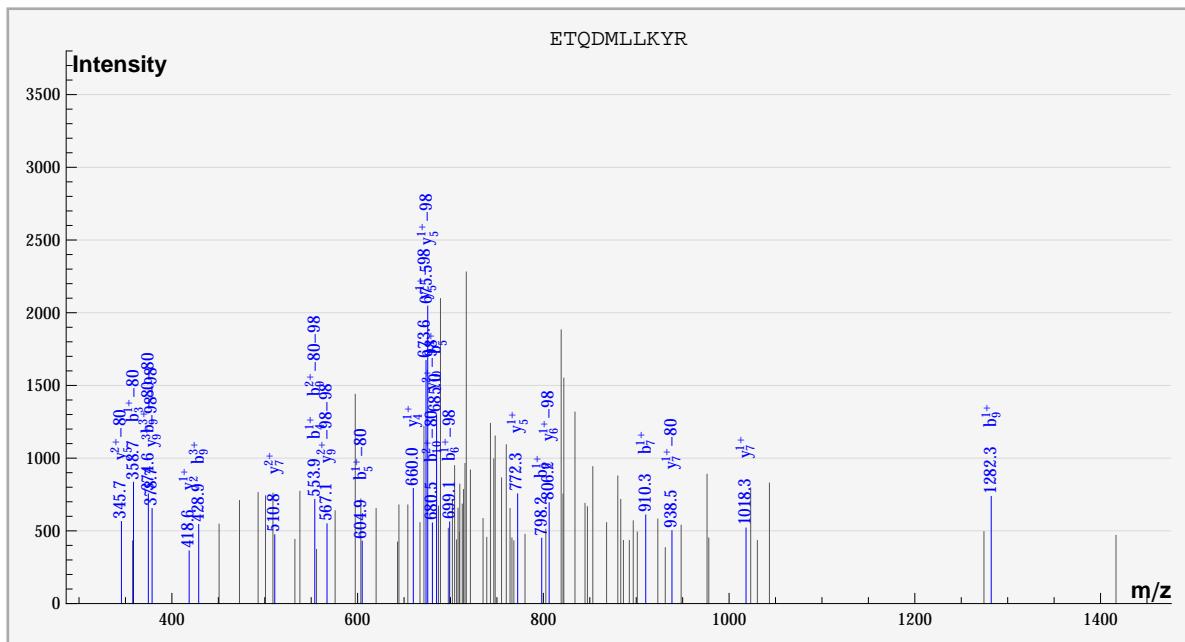
	♯	b	b*	♯	y	y*	P	P*
E	1							✓
T	2			9		✓		
Q	3		✓	8				
D	4	✓		7	✓	✓		
M	5	✓	✓	6		✓		
L	6	✓	✓	5	✓	✓		
L	7	✓		4	✓			
K	8			3				
Y	9	✓	✓	2	✓			
R	10		✓	1				
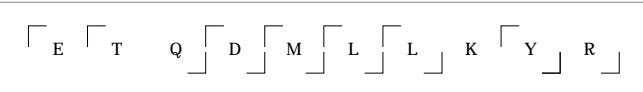
dbValid true YYKASEESIK PHOS(3) 2. 729. 0.255512 5.0741 100. ? 504.
  S_Acido_new%gi|68568552|gb|AAY81481.1| YYKASEESIK%:PHOS:PHOS:::::::PHOS:::%sample_1%cmpd_3405
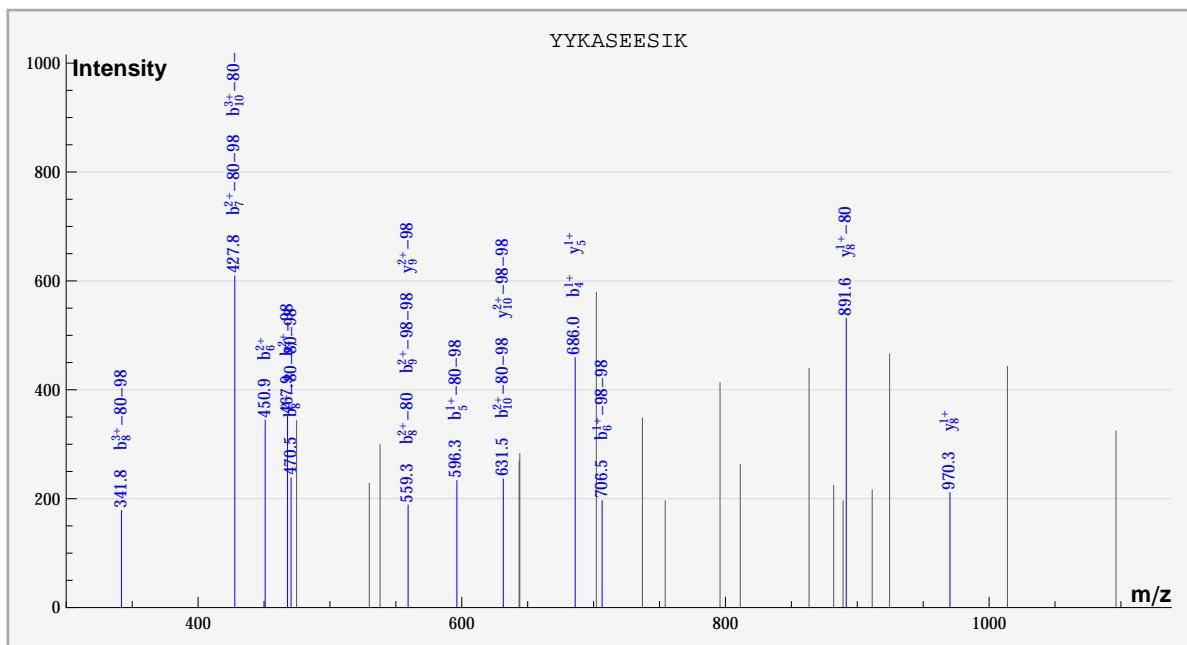
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							✓
Y	2			9		✓		
K	3			8	✓	✓		
A	4	✓		7				
S	5		✓	6				
E	6	✓	✓	5	✓			
E	7		✓	4				
S	8		✓	3	✓			
I	9		✓	2				
K	10		✓	1				

dbValid true KIDENYILSRK PHOS(1) 2. 731. −1.12877 5.02083 100. ? 1458.
S_Acido_new%gi|68566551|gb|AAY79480.1| KIDENYILSRK%:::::::::PHOS:::%sample_2%cmpd_183
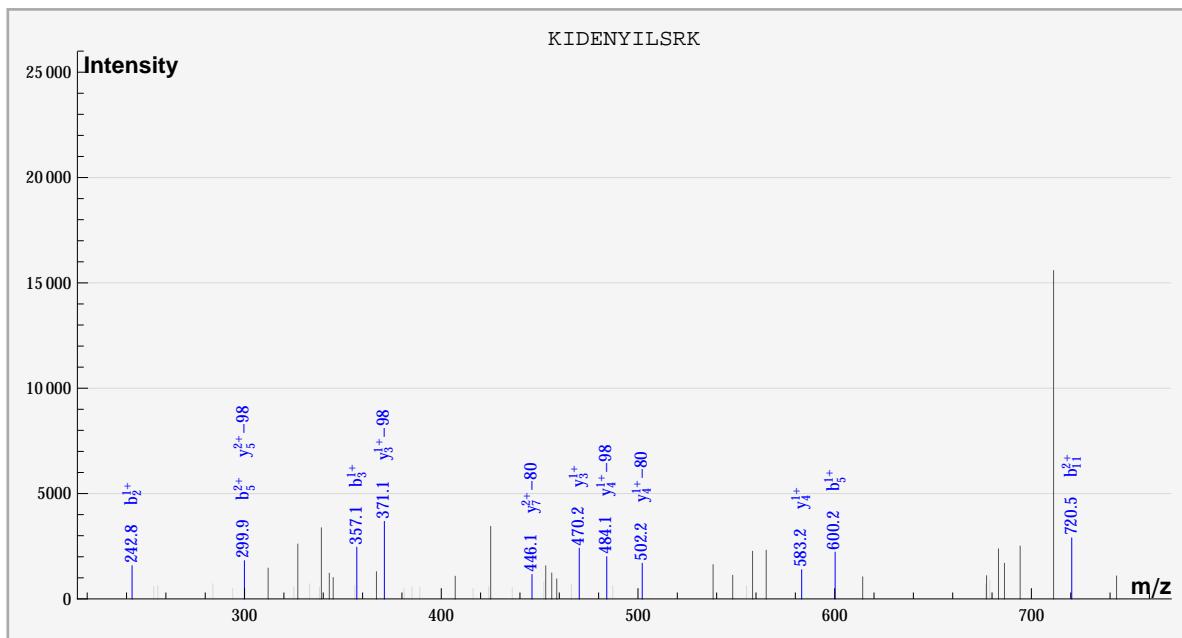
	#	b	b*	#	y	y*	P	P*
K	1							
I	2	✓		10				
D	3	✓		9				
E	4			8				
N	5	✓		7		✓		
Y	6			6				
I	7			5		✓		
L	8			4	✓	✓		
S	9			3	✓	✓		
R	10			2				
K	11	✓		1				

dbValid true GGESFR PHOS(1) 1. 731. 1.27122 5.4238 100. ? 2046.
S_Acido_new%gi|68567565|gb|AAY80494.1| GGESFR%::::PHOS:::%sample_0%cmpd_725

GGESFR
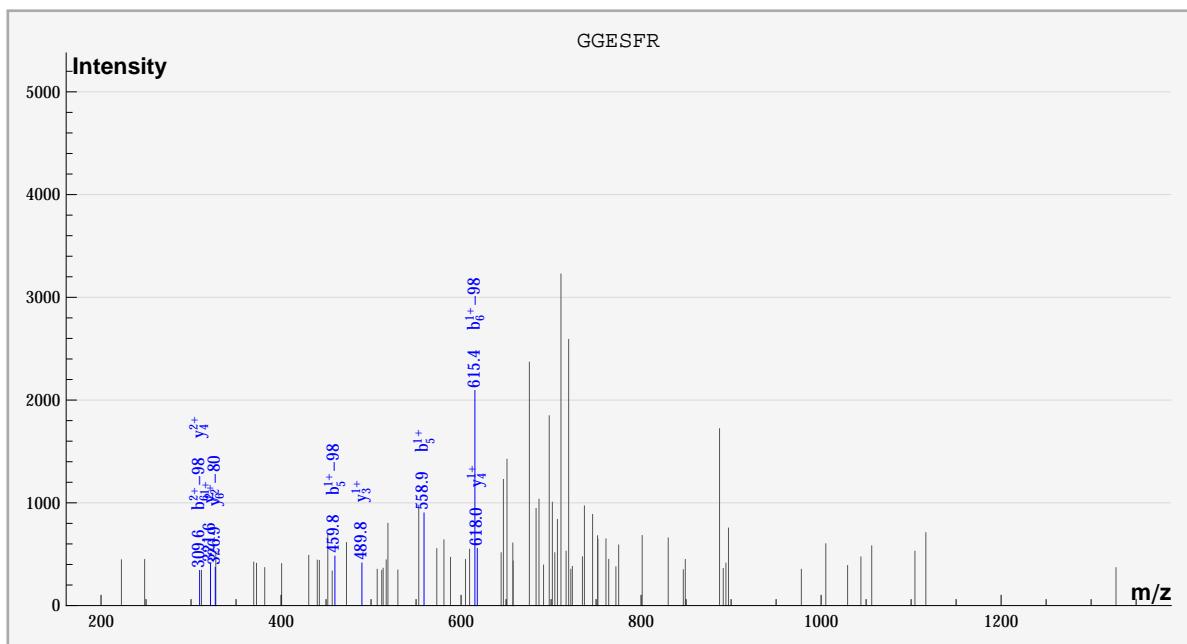
	♯	b	b*	♯	y	y*	P	P*
G	1							✓
G	2			5				
E	3			4	✓			
S	4			3	✓			
F	5	✓	✓	2	✓			
R	6		✓	1				

G   G   E   S   F   R
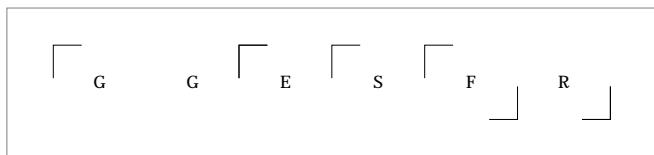
dbValid true SSNTLK PHOS(1) 1. 731. −1.68216 4.99479 100. ? 2466.
   S_Acido_new%gi|68566672|gb|AAY79601.1| SSNTLK%::::PHOS:::%sample_2%cmpd_1045
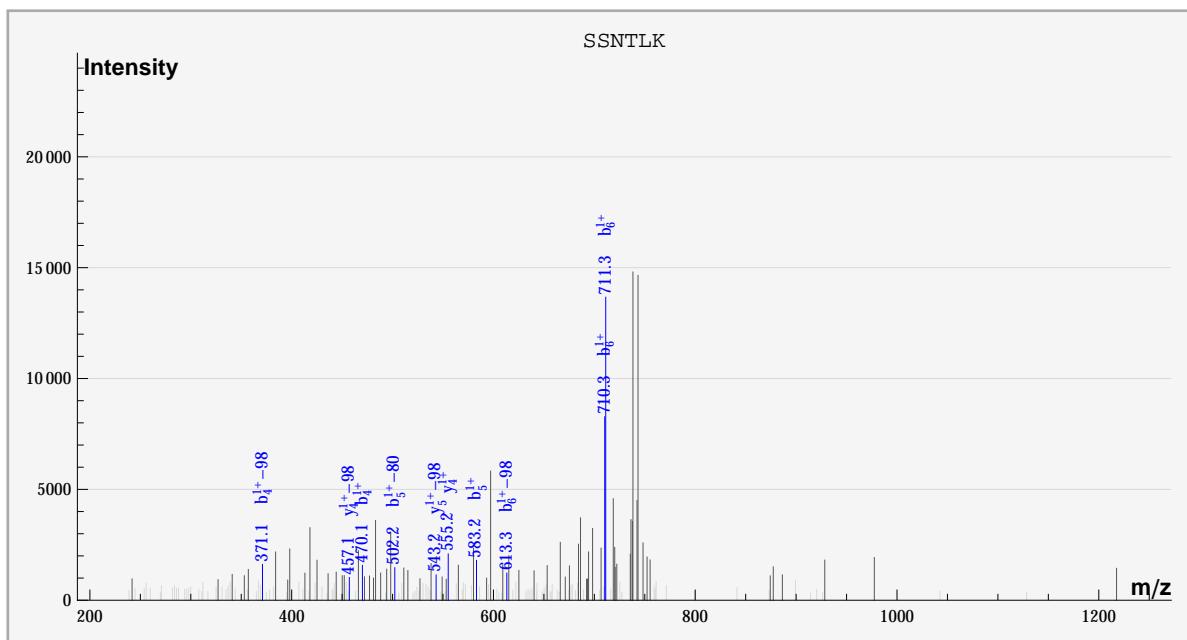
	#	b	b*	#	y	y*	P	P*
S	1							
S	2			5		✓		
N	3			4	✓	✓		
T	4	✓	✓	3				
L	5	✓	✓	2				
K	6	✓	✓	1				
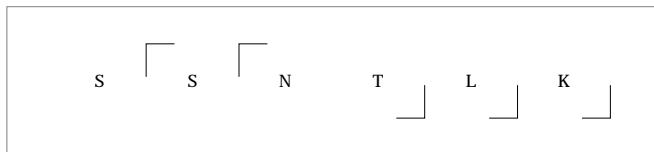
dbValid true YDIAIALYAER PHOS(2) 2. 731. −1.69073 5.13232 100. ? 2928.
S_Acido_new%gi|68568419|gb|AAY81348.1| YDIAIALYAER%:PHOS:::::::PHOS::::%sample_2%cmpd_1415

YDIAIALYAER

	#	b	b*	#	y	y*	P	P*
Y	1							✓
D	2	✓		10				
I	3			9		✓		
A	4	✓		8	✓			
I	5	✓		7	✓	✓		
A	6	✓		6	✓	✓		
L	7	✓	✓	5				
Y	8	✓	✓	4				
A	9		✓	3				
E	10			2				
R	11	✓	✓	1				

dbValid true SYYQGNDSRK PHOS(3) 2. 731. −1.76963 5.15584 100. ? 3036.
  S_Acido_new%gi|68567205|gb|AAY80134.1| SYYQGNDSRK%:PHOS:PHOS::::::PHOS:::%sample_0%cmpd_1632
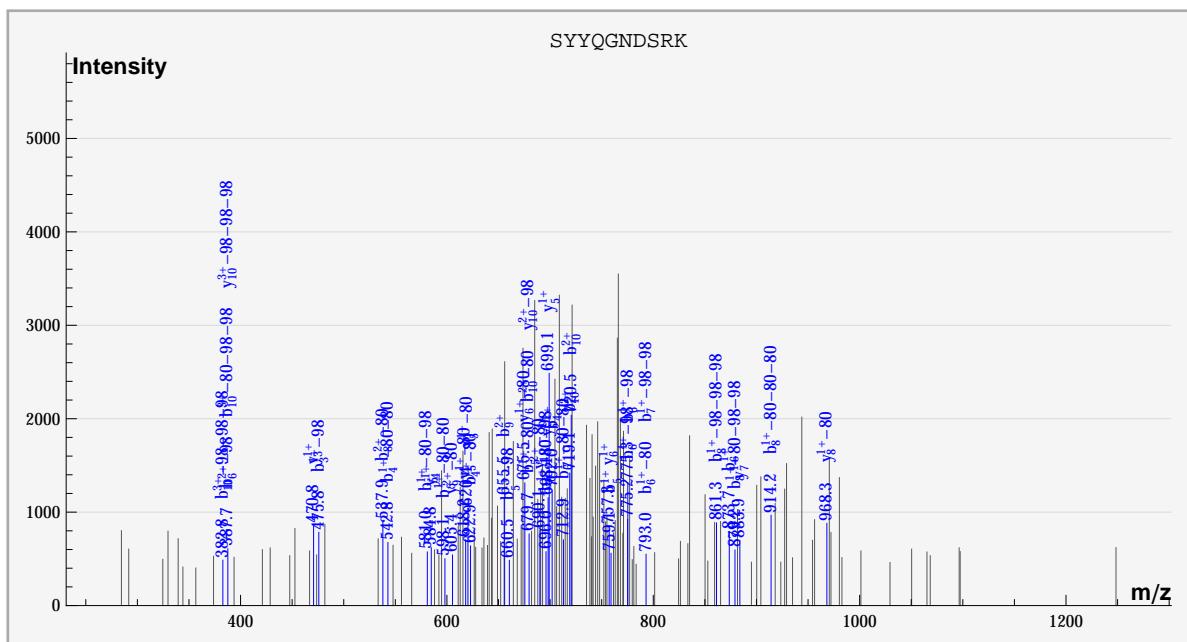
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
S	1							✓
Y	2			9		✓		
Y	3		✓	8		✓		
Q	4	✓	✓	7	✓			
G	5	✓	✓	6	✓	✓		
N	6	✓	✓	5	✓	✓		
D	7		✓	4	✓			
S	8		✓	3	✓			
R	9	✓		2				
K	10	✓	✓	1				

dbValid true GAASGMR PHOS(1) 1. 731. −1.72508 5.27435 100. ? 3486.
S_Acido_new%gi|68568331|gb|AAY81260.1| S_Acido_new%gi|68568476|gb|AAY81405.1|
GAASGMR%::::PHOS::::%sample_0%cmpd_2042
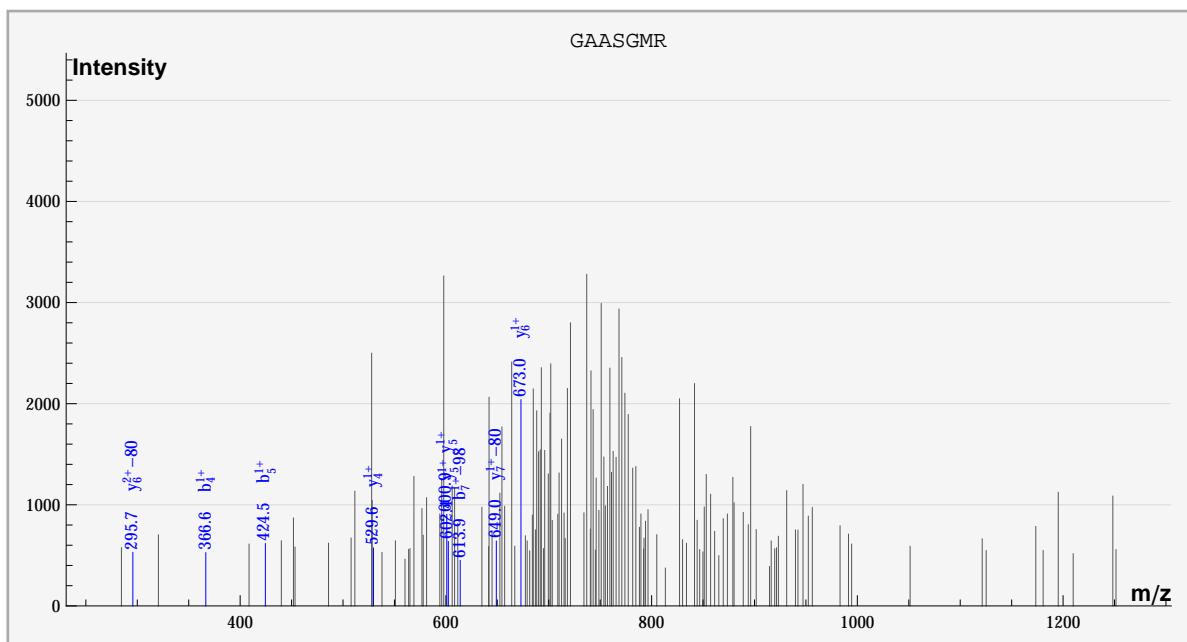
	#	b	b*	#	y	y*	P	P*
G	1							✓
A	2			6	✓	✓		
A	3			5	✓			
S	4	✓		4	✓			
G	5	✓		3				
M	6			2				
R	7		✓	1				
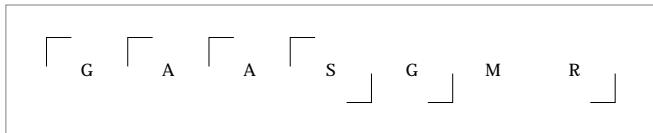
dbValid true MKAVILAGGYGKR Oxidation_M(1),PHOS(1) 2. 732. −1.62184 5.34949 100. ? 1800.
  S_Acido_new%gi|68567675|gb|AAY80604.1| MKAVILAGGYGKR%:Oxidation_M::::::::PHOS::::%sample_0%cmpd_505
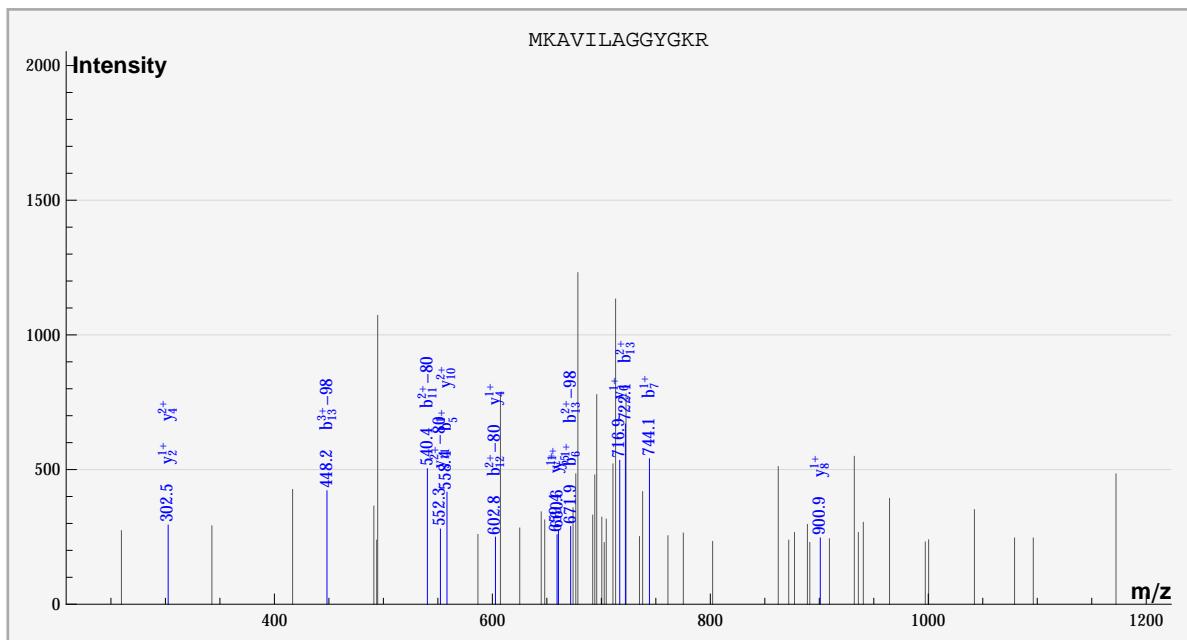
MKAVILAGGYGKR

	#	b	b*	#	y	y*	P	P*
M	1							
K	2			12				
A	3			11		✓		
V	4			10	✓			
I	5	✓		9				
L	6	✓		8	✓			
A	7	✓		7				
G	8			6	✓			
G	9			5	✓			
Y	10			4	✓			
G	11		✓	3				
K	12		✓	2	✓			
R	13	✓	✓	1				

M   K ⌐A ⌐V   I ⌐L⌐ A⌐ G ⌐G ⌐Y   G ⌐K⌐ R⌐

dbValid true FHTTNQEKSK PHOS(3) 2. 732. −1.74362 5.48285 100. ? 2646.
  S_Acido_new%gi|68568348|gb|AAY81277.1| FHTTNQEKSK%:::PHOS:PHOS:::::PHOS::%sample_2%cmpd_1200
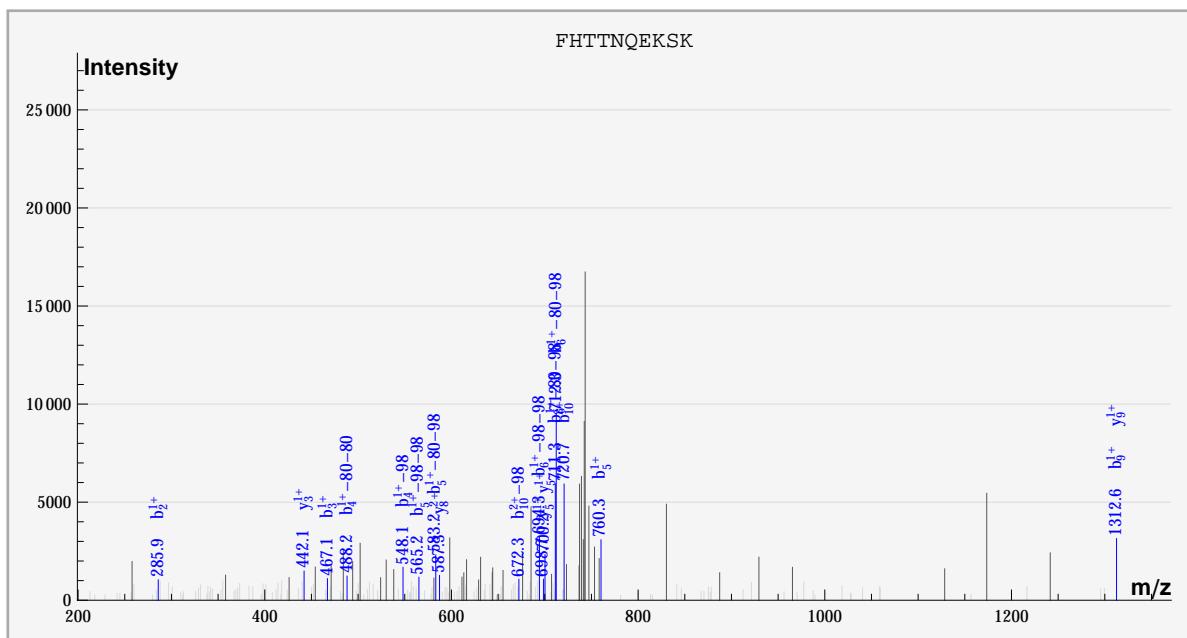
	♯	b	b*	♯	y	y*	P	P*
F	1							
H	2	✓		9	✓			
T	3	✓		8	✓			
T	4		✓	7				
N	5	✓	✓	6				
Q	6		✓	5	✓			
E	7			4				
K	8			3	✓			
S	9	✓		2				
K	10	✓	✓	1				

dbValid true FHTTNQEKSK PHOS(3) 2. 732. −1.74362 5.3555 100. ? 2658.
S_Acido_new%gi|68568348|gb|AAY81277.1| FHTTNQEKSK%:::PHOS:PHOS:::::PHOS::%sample_2%cmpd_1211

	♯	b	b*	♯	y	y*	P	P*
F	1							
H	2	✓		9	✓			
T	3	✓	✓	8	✓			
T	4		✓	7				
N	5	✓	✓	6				
Q	6		✓	5	✓			
E	7			4				
K	8			3	✓			
S	9	✓		2				
K	10	✓	✓	1				

F H T T N Q E K S K

dbValid true FHTTNQEKSK PHOS(3) 2. 732. −1.74362 5.50943 100. ? 2670.
S_Acido_new%gi|68568348|gb|AAY81277.1| FHTTNQEKSK%:::PHOS:PHOS:::::PHOS::%sample_2%cmpd_1221

	#	b	b*	#	y	y*	P	P*
F	1							
H	2			9	✓			
T	3		✓	8	✓			
T	4		✓	7				
N	5	✓	✓	6				
Q	6		✓	5	✓			
E	7			4				
K	8			3	✓			
S	9	✓		2				
K	10	✓		1				

F H T T N Q E K S K

dbValid true KYTHGSWLRR PHOS(2) 2. 733. −0.679153 4.96935 100. ? 1524.
S_Acido_new%gi|68568498|gb|AAY81427.1| KYTHGSWLRR%::PHOS:PHOS::::::::%sample_0%cmpd_257
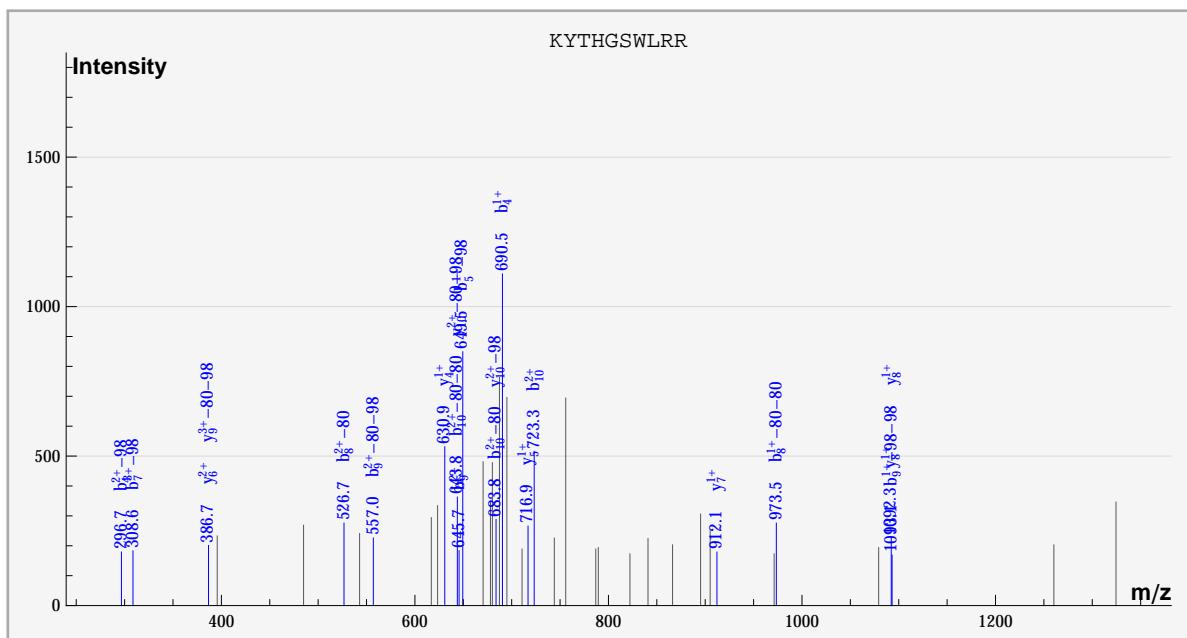
	#	b	b*	#	y	y*	P	P*
K	1							✓
Y	2			9		✓		
T	3			8	✓			
H	4	✓	✓	7	✓			
G	5		✓	6	✓			
S	6			5	✓			
W	7		✓	4	✓			
L	8		✓	3				
R	9	✓	✓	2				
R	10	✓	✓	1				
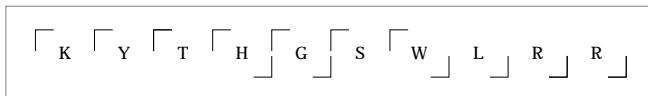
dbValid true AFQSAK PHOS(1) 1. 733. −1.68765 7.12017 100. ? 1788.
S_Acido_new%gi|68568585|gb|AAY81514.1| AFQSAK%::::PHOS:::%sample_0%cmpd_495
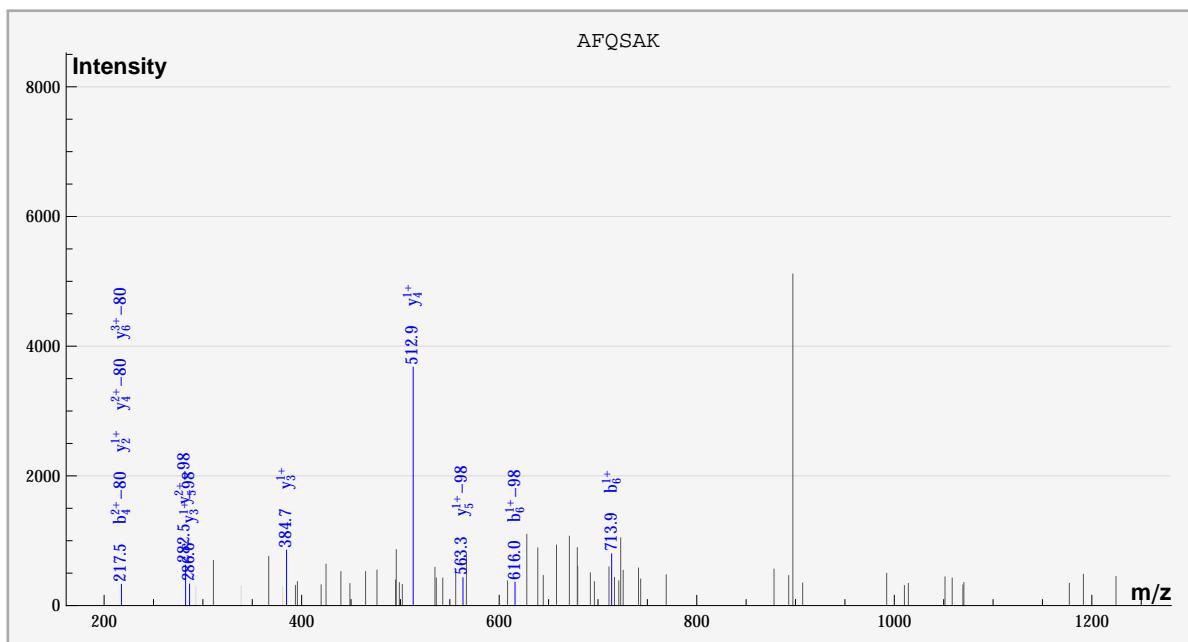
	♯	b	b^*	♯	y	y^*	**P**	**P***
A	1							✓
F	2			5		✓		
Q	3			4	✓	✓		
S	4		✓	3	✓	✓		
A	5			2	✓			
K	6	✓	✓	1				
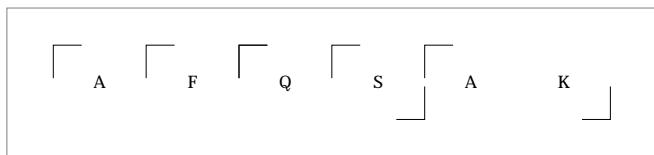
dbValid true DLRLEGGHSSRR PHOS(1) 2. 733. −1.15085 5.78997 100. ? 2430.
  S_Acido_new%gi|68567016|gb|AAY79945.1| DLRLEGGHSSRR%::::::::::PHOS:::%sample_2%cmpd_1017
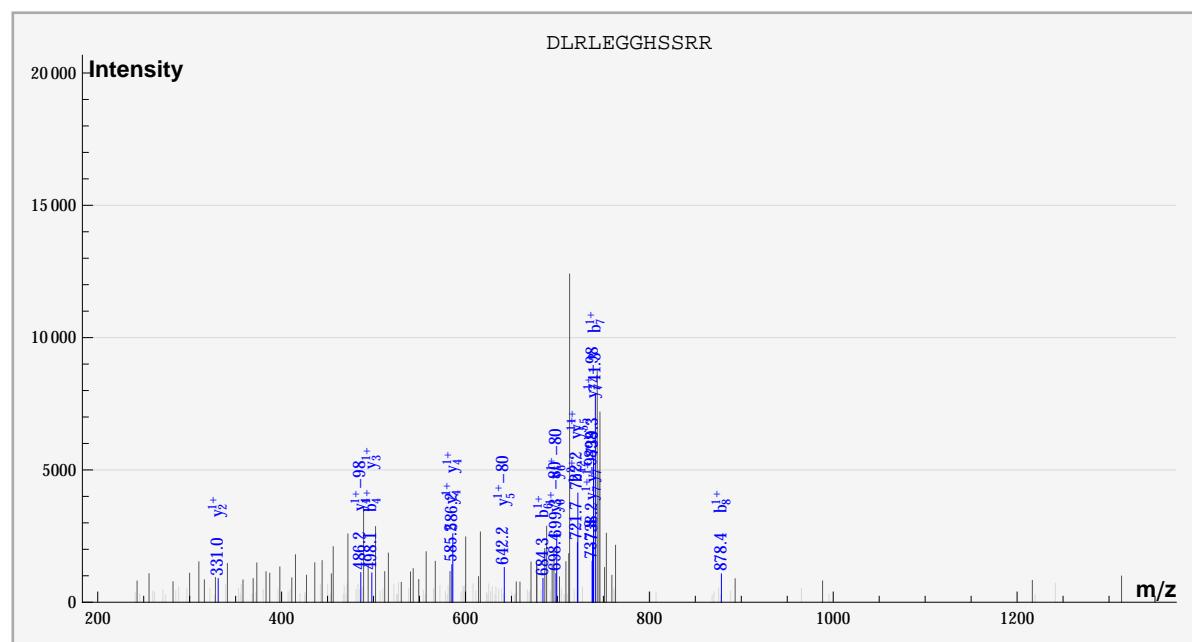
♯	b	b*	♯	y	y*	P	P*
D	1						
L	2		11				
R	3		10				
L	4	✓	9				
E	5		8				
G	6	✓	7		✓		
G	7	✓	6		✓		
H	8	✓	5	✓	✓		
S	9		4	✓	✓		
S	10		3	✓			
R	11		2	✓			
R	12	✓	1				

D   L   R   L   E   G   G   H   S   S   R   R

dbValid true DLRLEGGHSSRR PHOS(1) 2. 733. −1.15085 5.77207 100. ? 2454.
S_Acido_new%gi|68567016|gb|AAY79945.1| DLRLEGGHSSRR%:::::::::::PHOS:::%sample_2%cmpd_1037

DLRLEGGHSSRR

♯	b	b*	♯	y	y*	P	P*
D	1						
L	2		11				
R	3		10				
L	4	✓	9				
E	5		8				
G	6	✓	7		✓		
G	7	✓	6		✓		
H	8	✓	5	✓	✓		
S	9		4	✓	✓		
S	10		3	✓	✓		
R	11		2	✓			
R	12	✓	1				
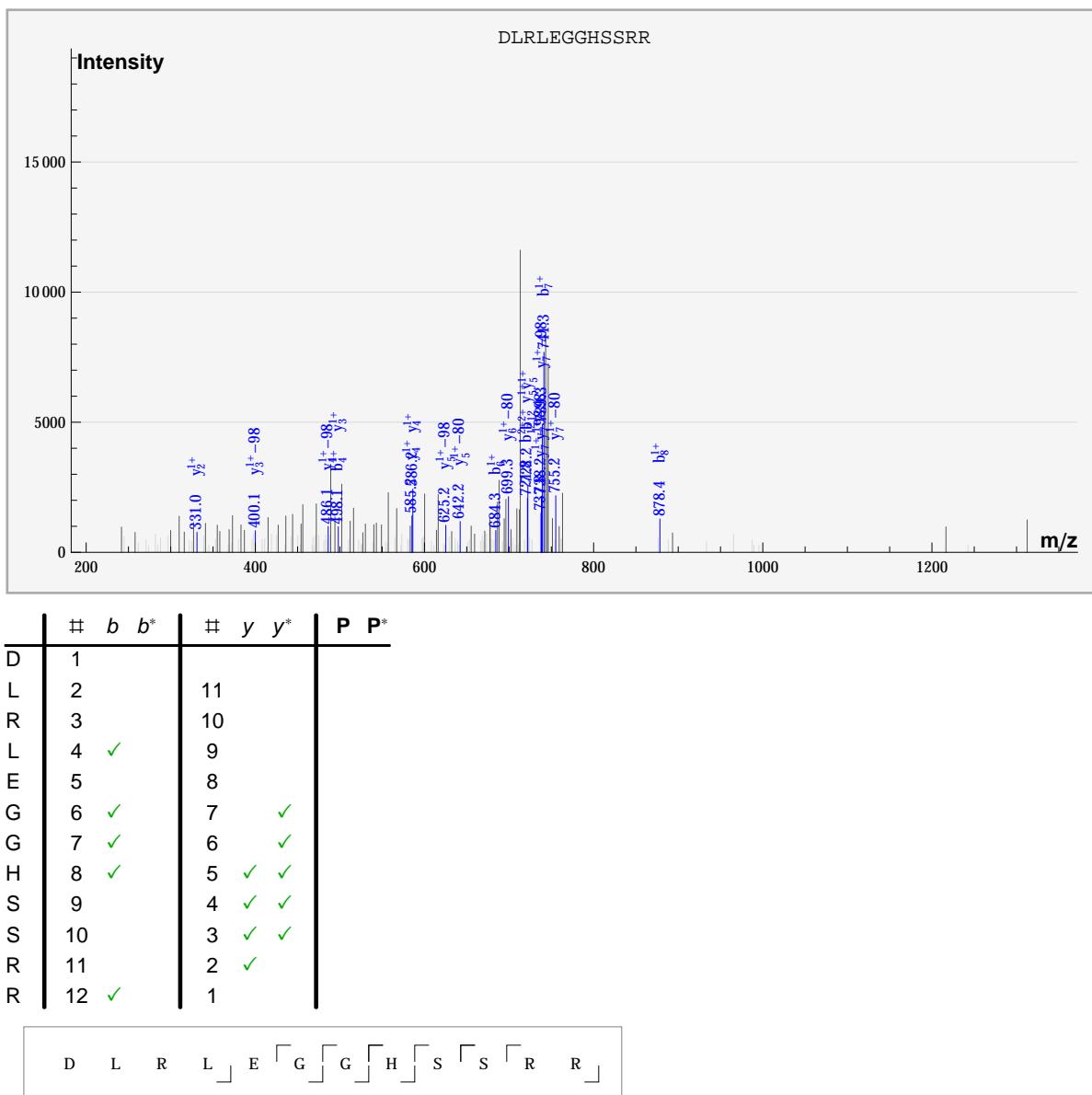
D   L   R   L   E   G   G   H   S   S   R   R

dbValid   true   GMKTSK   PHOS(1)   1.   733.   −1.68427   5.09739   100.   ?   2784.
S_Acido_new%gi|68566883|gb|AAY79812.1| GMKTSK%:::::PHOS::%sample_0%cmpd_1402
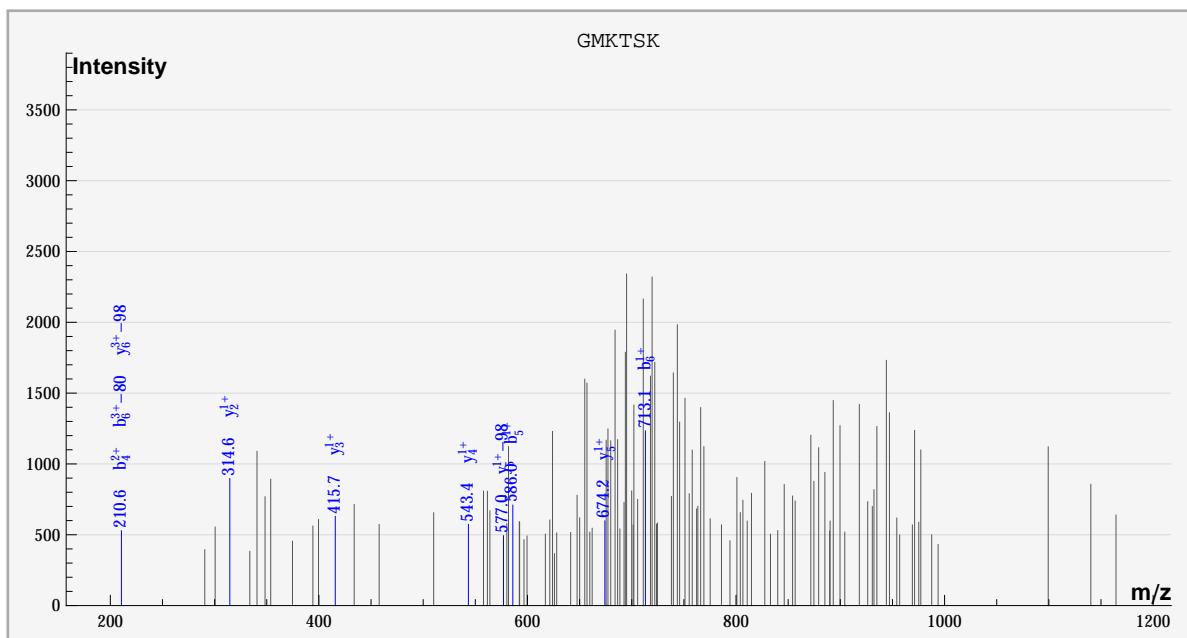
♯	b	b*	♯	y	y*	P	P*
G	1						✓
M	2			5	✓	✓	
K	3			4	✓		
T	4	✓		3	✓		
S	5	✓		2	✓		
K	6	✓	✓	1			
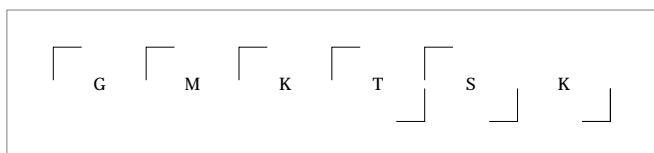
dbValid   true   DLRLEGGHSSRR   PHOS(1)   2.   733.   −1.15085   5.07006   100.   ?   3030.
   S_Acido_new%gi|68567016|gb|AAY79945.1| DLRLEGGHSSRR%::::::::::PHOS:::%sample_2%cmpd_1528

DLRLEGGHSSRR

	#	b	b*	#	y	y*	P	P*
D	1							
L	2			11				
R	3			10				
L	4			9				
E	5			8				
G	6	✓		7		✓		
G	7	✓		6		✓		
H	8	✓		5	✓			
S	9			4				
S	10			3				
R	11	✓		2				
R	12	✓		1				

D   L   R   L   E   G   G   H   S   S   R   R

dbValid true DLRLEGGHSSRR PHOS(1) 2. 733. −1.15085 5.46548 100. ? 3120.
  S_Acido_new%gi|68567016|gb|AAY79945.1| DLRLEGGHSSRR%:::::::::PHOS:::%sample_2%cmpd_1599

	♯	b	b*	♯	y	y*	P	P*
D	1							
L	2			11		✓		
R	3			10				
L	4			9				
E	5			8				
G	6	✓		7		✓		
G	7	✓		6		✓		
H	8	✓		5	✓			
S	9			4				
S	10			3				
R	11			2				
R	12	✓		1				

dbValid   true   YMLLDITKLKK   Oxidation_M(1),PHOS(1)   2.   733.   −1.60705   5.1329   100.   ?   3192.
   S_Acido_new%gi|68567207|gb|AAY80136.1| YMLLDITKLKK%:PHOS:Oxidation_M::::::::::%sample_2%cmpd_1643
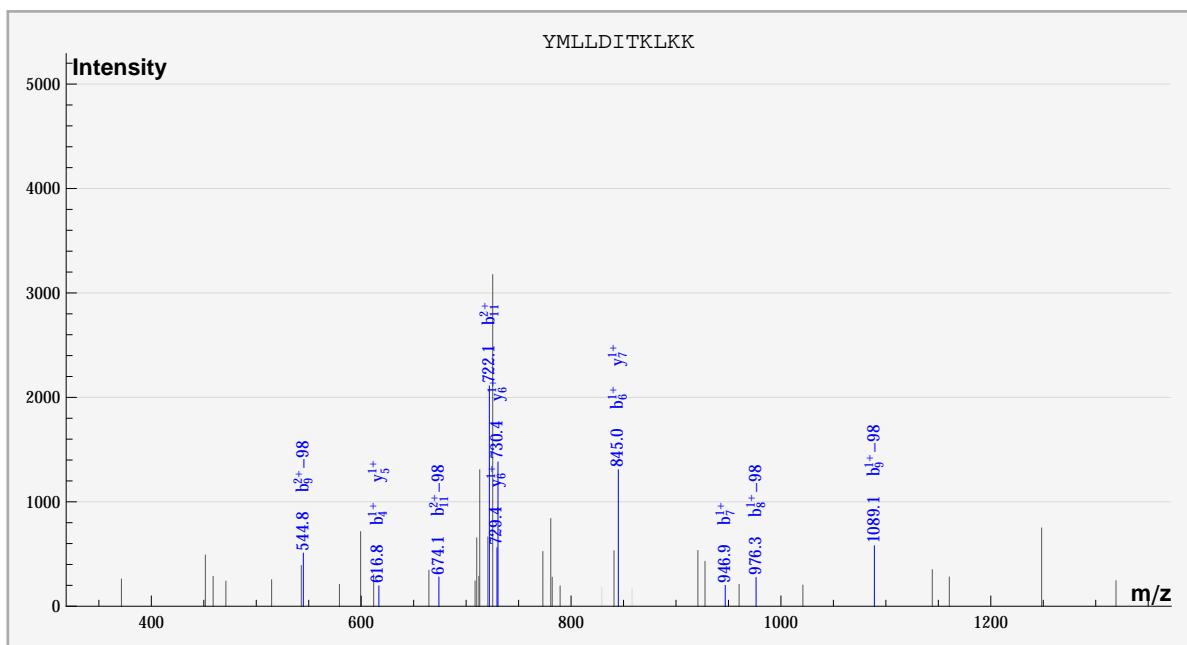
	#	b	b*	#	y	y*	P	P*
Y	1							
M	2			10				
L	3			9				
L	4	✓		8				
D	5			7	✓			
I	6	✓		6	✓			
T	7	✓		5	✓			
K	8		✓	4				
L	9		✓	3				
K	10			2				
K	11	✓	✓	1				

Y   M   L   L   D   I   T   K   L   K   K

dbValid true VKTTGAVIDIITR PHOS(1) 2. 733. 0.902527 5.11439 100. ? 3354.
  S_Acido_new%gi|68568580|gb|AAY81509.1| VKTTGAVIDIITR%::::::::::::PHOS::%sample_0%cmpd_1923

	♯	b	b*	♯	y	y*	P	P*
V	1							✓
K	2			12				
T	3			11				
T	4			10	✓			
G	5	✓		9	✓	✓		
A	6			8	✓			
V	7			7	✓	✓		
I	8	✓		6	✓	✓		
D	9			5	✓			
I	10	✓		4	✓			
I	11			3	✓			
T	12	✓		2	✓			
R	13		✓	1				

V K T T G A V I D I I T R
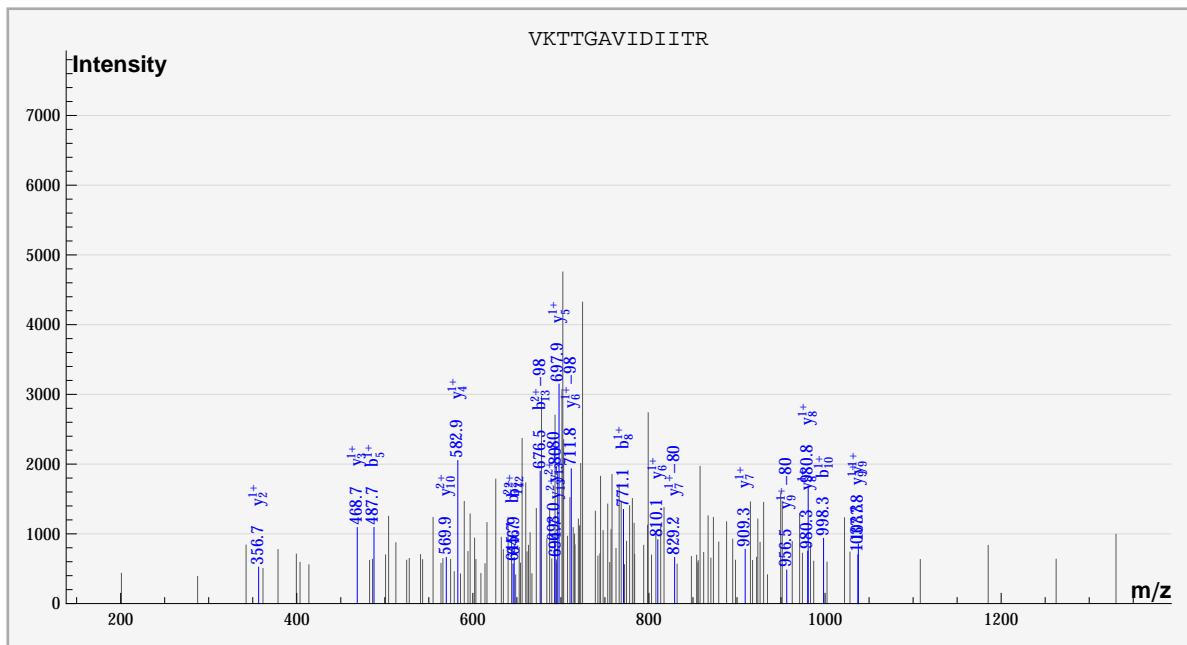
dbValid true VYWYGKPDVKK PHOS(1) 2. 733. −1.13987 5.5202 100. ? 5238.
  S_Acido_new%gi|68567609|gb|AAY80538.1| VYWYGKPDVKK%::::PHOS::::::::%sample_0%cmpd_3626
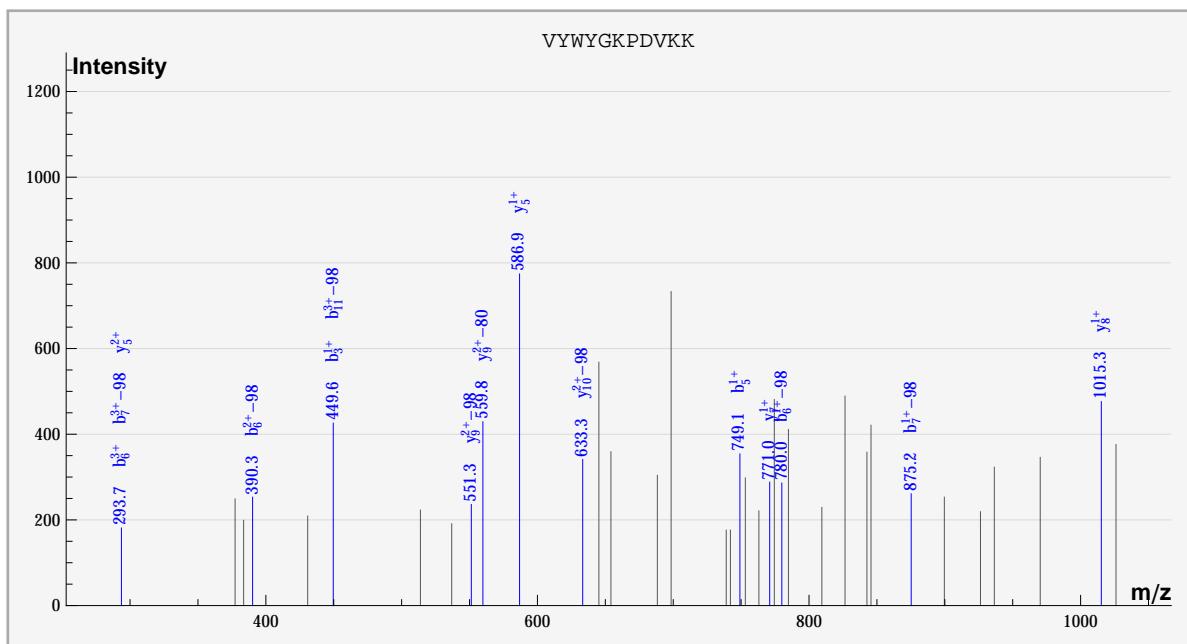
♯	b	b*	♯	y	y*	P	P*
V	1						
Y	2			10		✓	
W	3	✓		9		✓	
Y	4			8	✓		
G	5	✓		7	✓		
K	6	✓	✓	6			
P	7		✓	5	✓		
D	8			4			
V	9			3			
K	10			2			
K	11		✓	1			

dbValid true LSTEIGSFTNR PHOS(3) 2. 734. −1.23596 5.42963 100. ? 2382.
S_Acido_new%gi|68568244|gb|AAY81173.1| LSTEIGSFTNR%::PHOS:PHOS:::::::PHOS:::%sample_0%cmpd_1037
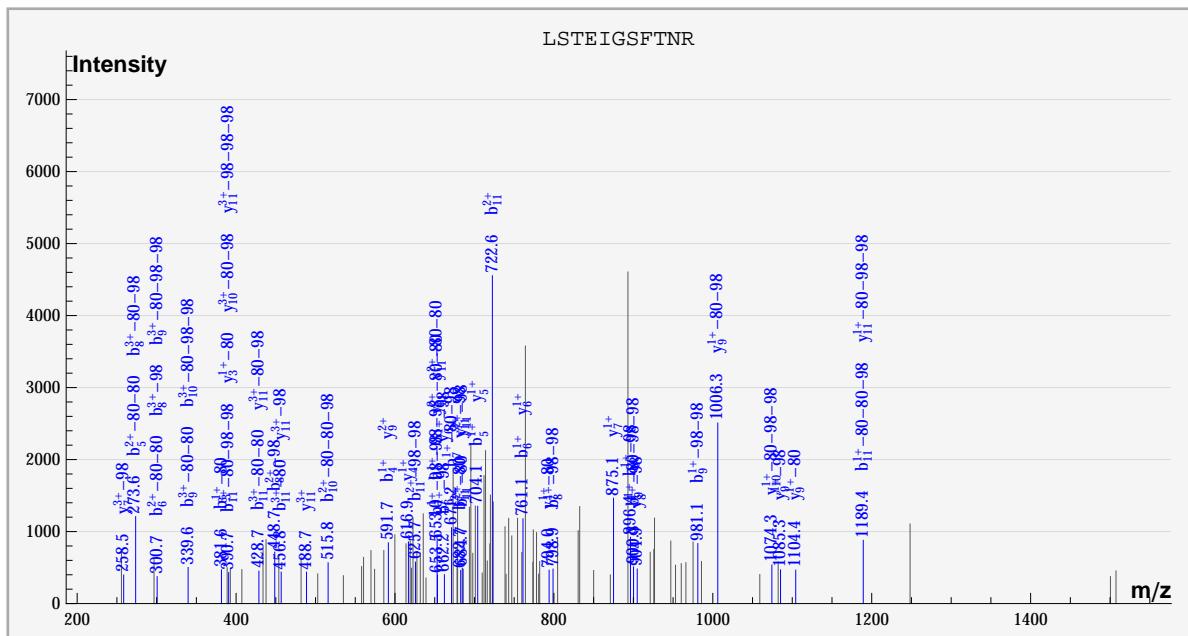
	♯	b	b*	♯	y	y*	P	P*
L	1						✓	✓
S	2			10		✓		
T	3		✓	9	✓	✓		
E	4	✓		8		✓		
I	5	✓	✓	7	✓	✓		
G	6	✓	✓	6	✓	✓		
S	7		✓	5	✓			
F	8		✓	4	✓			
T	9		✓	3		✓		
N	10		✓	2				
R	11	✓	✓	1				
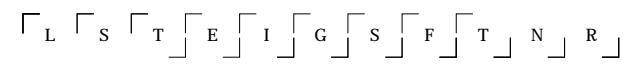
dbValid true KRGLSLVTDGNTK PHOS(1) 2. 734. 0.879587 5.01447 100. ? 3552.
S_Acido_new%gi|68566826|gb|AAY79755.1| KRGLSLVTDGNTK%:::::::::::PHOS::%sample_0%cmpd_2100

	#	b	b*	#	y	y*	P	P*
K	1							✓
R	2			12				
G	3			11				
L	4	✓		10		✓		
S	5	✓		9	✓	✓		
L	6	✓		8	✓	✓		
V	7	✓		7	✓	✓		
T	8			6	✓	✓		
D	9	✓		5	✓			
G	10	✓		4				
N	11			3				
T	12			2				
K	13	✓	✓	1				

K R G L S L V T D G N T K

EALKEAIVYPTR

	#	b	b*	#	y	y*	P	P*
E	1							✓
A	2			11	✓			
L	3			10				
K	4			9				
E	5	✓		8				
A	6			7	✓			
I	7			6	✓	✓		
V	8			5		✓		
Y	9			4	✓			
P	10			3	✓			
T	11		✓	2				
R	12	✓	✓	1				

dbValid true SIISVIEEENKK PHOS(1) 2. 735. –0.131648 5.39626 100. ? 2310.
 S_Acido_new%gi|68568168|gb|AAY81097.1| SIISVIEEENKK%:PHOS:::::::::::%sample_0%cmpd_972
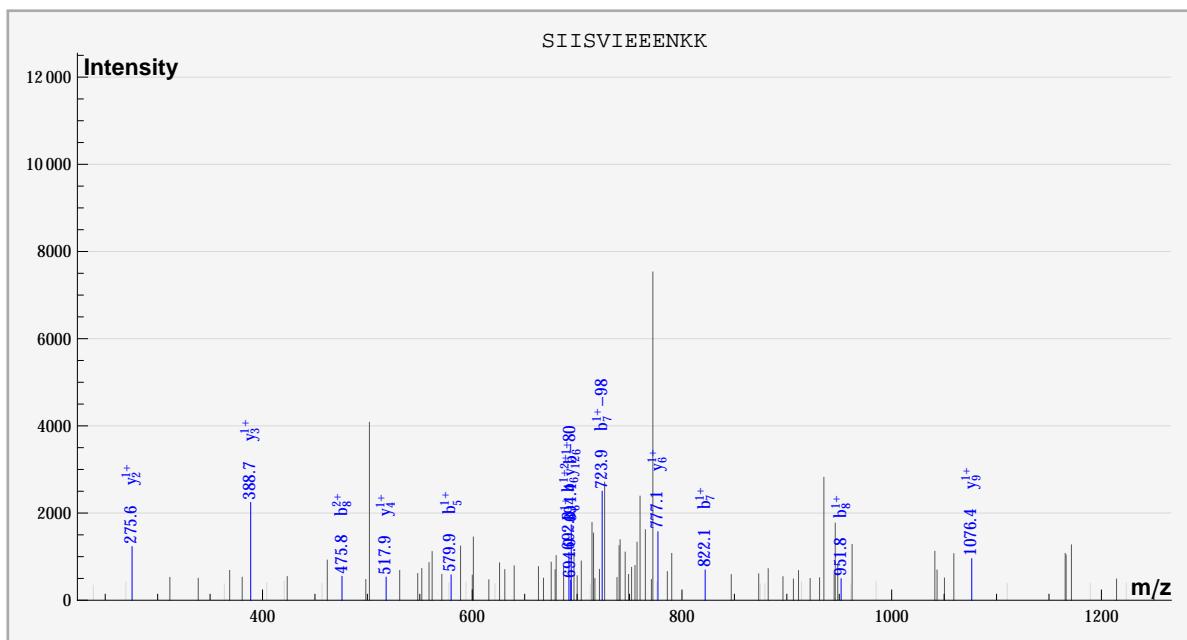
♯	b	b*	♯	y	y*	P	P*
S	1							✓
I	2			11			
I	3			10			
S	4			9	✓		
V	5	✓		8			
I	6	✓		7			
E	7	✓	✓	6	✓		
E	8	✓		5			
E	9			4	✓		
N	10			3	✓		
K	11			2	✓		
K	12			1			

dbValid true GHGTER PHOS(1) 1. 735. 1.27737 5.17989 100. ? 2436.
  S_Acido_new%gi|68567981|gb|AAY80910.1| GHGTER%::::PHOS:::%sample_0%cmpd_1082
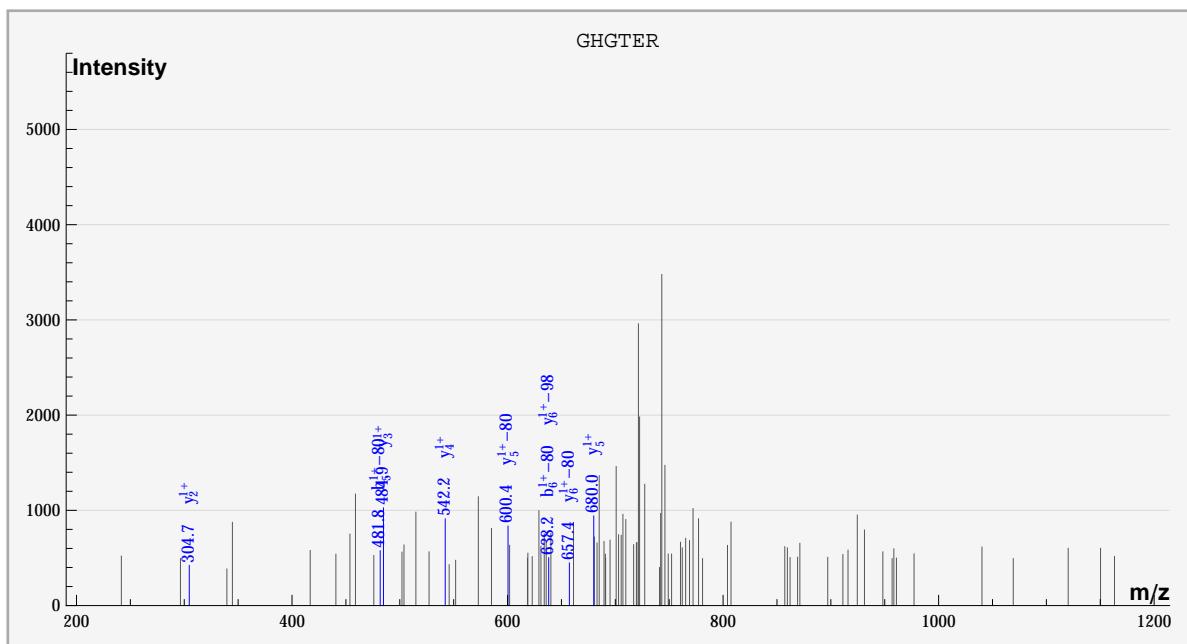
	#	b	b*	#	y	y*	P	P*
G	1							✓
H	2			5	✓	✓		
G	3			4	✓			
T	4			3	✓			
E	5		✓	2	✓			
R	6		✓	1				
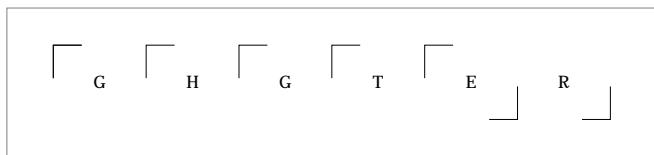
dbValid true GVKSTLTSLILKK PHOS(1) 2. 736. −1.56908 5.12849 100. ? 1728.
S_Acido_new%gi|68567713|gb|AAY80642.1| GVKSTLTSLILKK%::::::::PHOS::::::%sample_0%cmpd_443
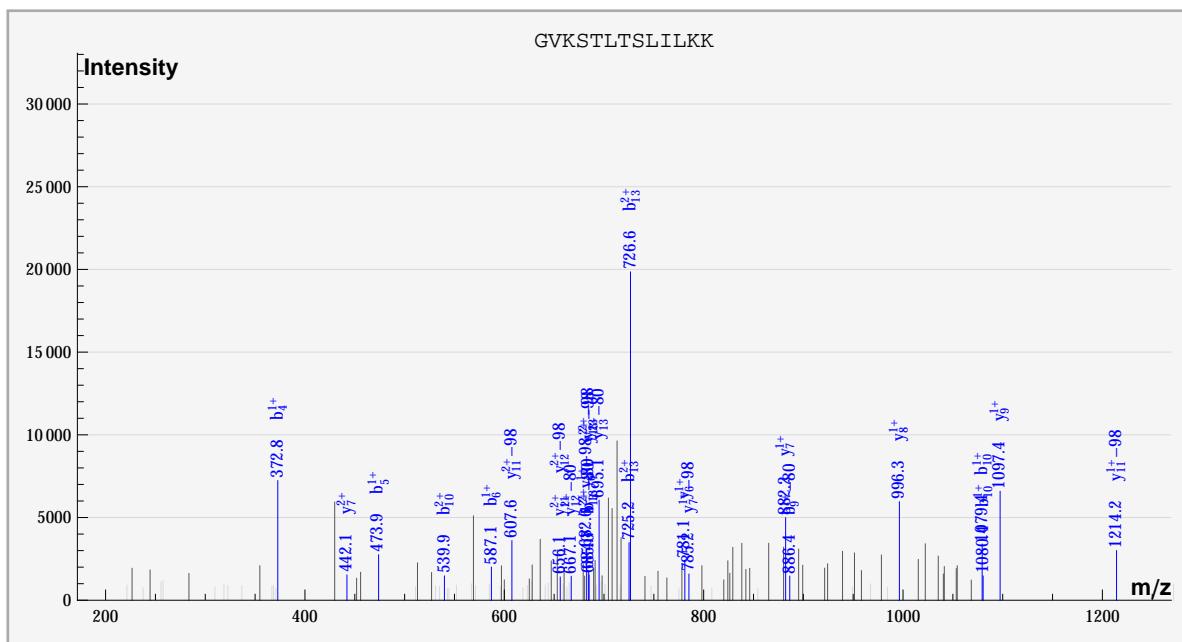
♯	b	b*	♯	y	y*	P	P*
G	1						✓
V	2		12		✓		
K	3		11	✓	✓		
S	4	✓	10				
T	5	✓	9	✓			
L	6	✓	8	✓			
T	7		7	✓	✓		
S	8		6	✓	✓		
L	9		✓	5			
I	10	✓	4				
L	11		3				
K	12		2				
K	13	✓	✓	1			

G V K S T L T S L I L K K

dbValid true MKNNVIIVNTSR PHOS(1) 2. 736. −1.12928 4.96858 100. ? 2880.
  S_Acido_new%gi|68567773|gb|AAY80702.1| MKNNVIIVNTSR%::::::::::PHOS:::%sample_0%cmpd_1493
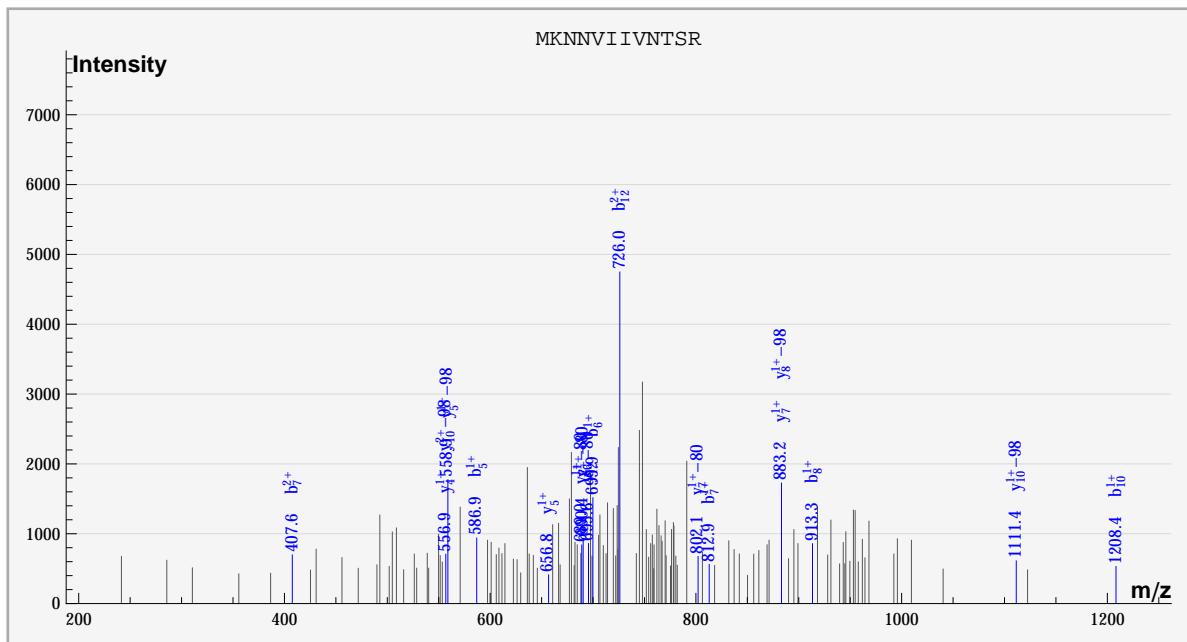
	♯	b	b*	♯	y	y*	P	P*
M	1							✓
K	2			11				
N	3			10		✓		
N	4			9				
V	5	✓		8		✓		
I	6	✓		7	✓	✓		
I	7	✓		6		✓		
V	8	✓		5	✓	✓		
N	9			4	✓			
T	10	✓		3				
S	11			2				
R	12	✓		1				

M K N N V I I V N T S R

dbValid true IYSTGLGVATTAR PHOS(2) 2. 736. −0.674543 5.54833 100. ? 2994.
S_Acido_new%gi|68566647|gb|AAY79576.1| IYSTGLGVATTAR%::PHOS:::::::PHOS::::%sample_0%cmpd_1593

IYSTGLGVATTAR
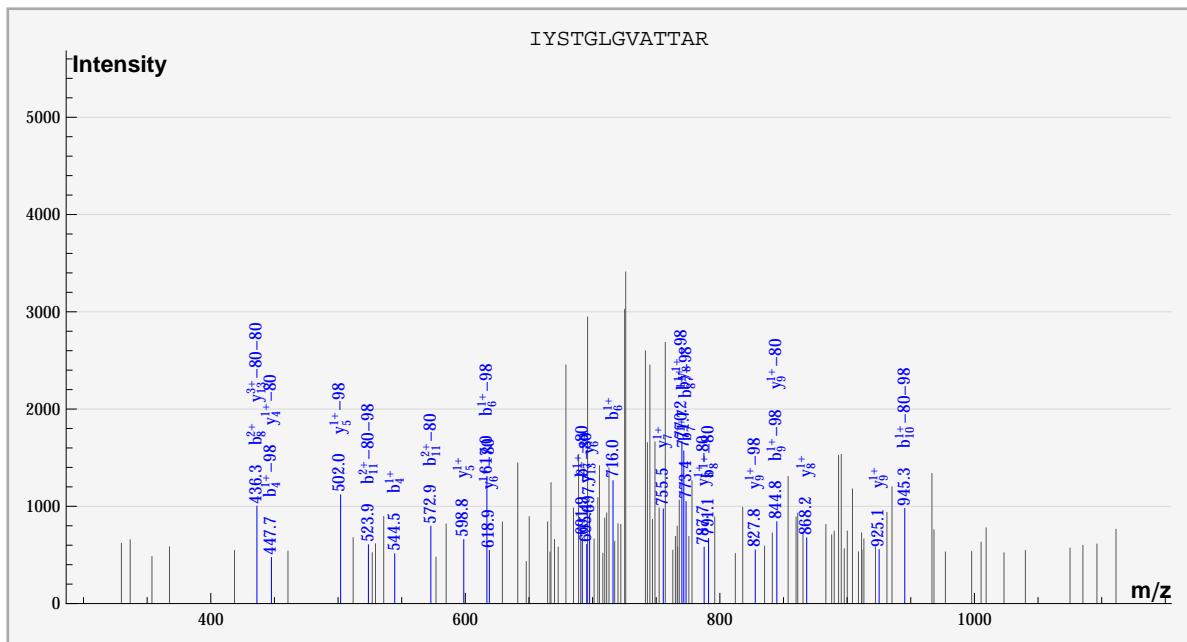
	#	b	b*	#	y	y*	P	P*
I	1							✓
Y	2			12				
S	3			11				
T	4	✓	✓	10				
G	5			9	✓	✓		
L	6	✓	✓	8	✓	✓		
G	7	✓	✓	7	✓			
V	8	✓	✓	6	✓	✓		
A	9		✓	5	✓	✓		
T	10		✓	4		✓		
T	11		✓	3				
A	12			2				
R	13			1				

I Y S T G L G V A T T A R

dbValid true DYYWLKIRR PHOS(2) 2. 736. 0.827972 5.13821 100. ? 4290.
S_Acido_new%gi|68567630|gb|AAY80559.1| DYYWLKIRR%::PHOS:PHOS:::::::%sample_0%cmpd_2777
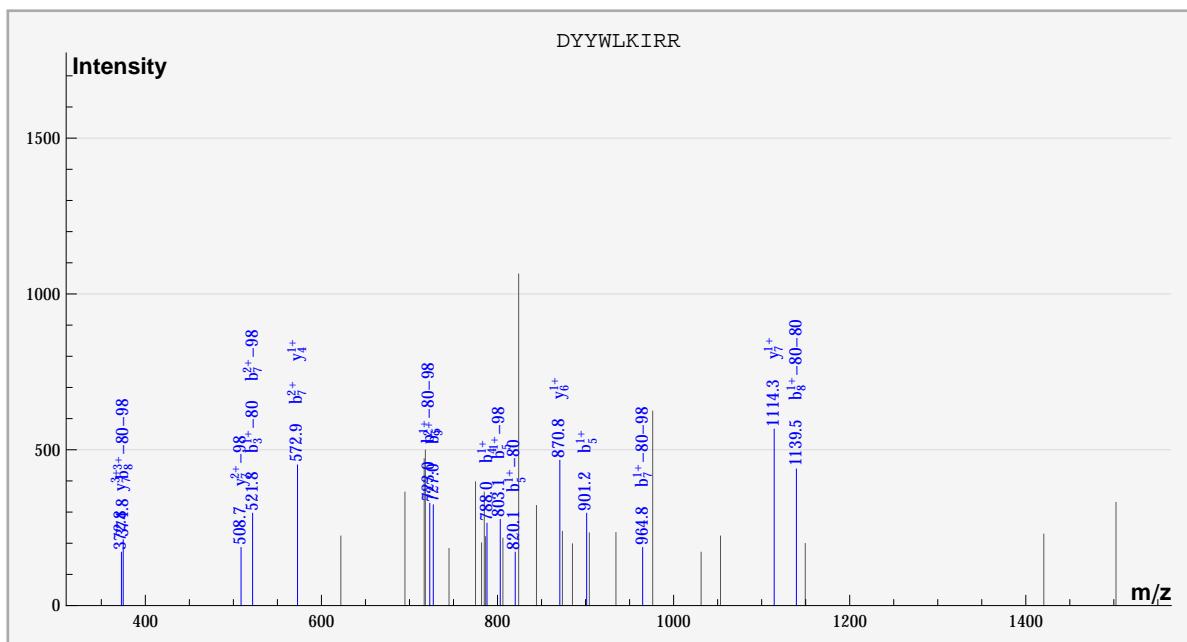
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
D	1							
Y	2			8				
Y	3		✓	7	✓	✓		
W	4	✓		6	✓			
L	5	✓	✓	5				
K	6			4	✓			
I	7	✓	✓	3				
R	8		✓	2				
R	9	✓		1				
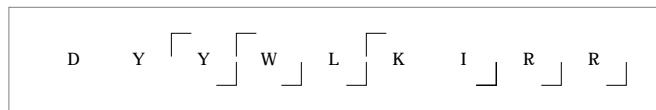
dbValid true VDKNYEQLLDR PHOS(1) 2. 736. 0.842672 5.78668 100. ? 5262.
S_Acido_new%gi|68567394|gb|AAY80323.1| VDKNYEQLLDR%:::::PHOS:::::::%sample_0%cmpd_3650

VDKNYEQLLDR
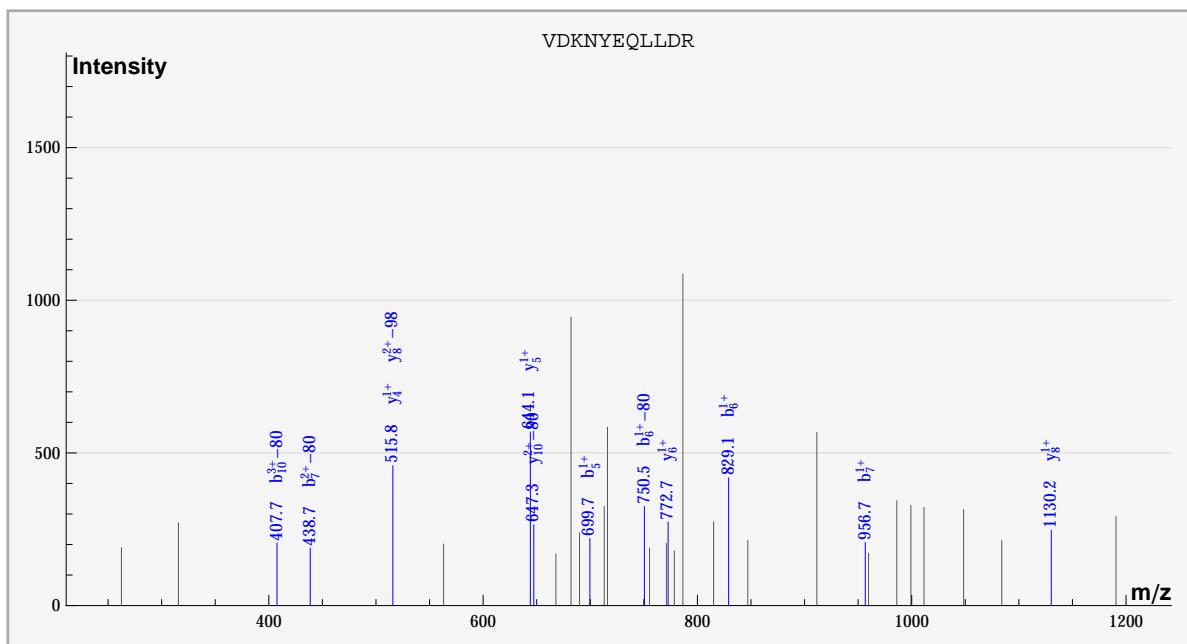
	#	b	b*	#	y	y*	P	P*
V	1							
D	2			10		✓		
K	3			9				
N	4			8	✓	✓		
Y	5	✓		7				
E	6	✓	✓	6	✓			
Q	7	✓	✓	5	✓			
L	8			4	✓			
L	9			3				
D	10		✓	2				
R	11			1				

V ⌐ D   K ⌐ N   Y ⌐ E ⌐ Q ⌐ L   L   D ⌐ R
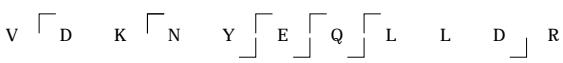
dbValid true EYSAHKIAMIAR PHOS(1) 2. 737. −1.64785 5.19943 100. ? 1656.
  S_Acido_new%gi|68567400|gb|AAY80329.1| EYSAHKIAMIAR%::PHOS:::::::::::%sample_2%cmpd_352
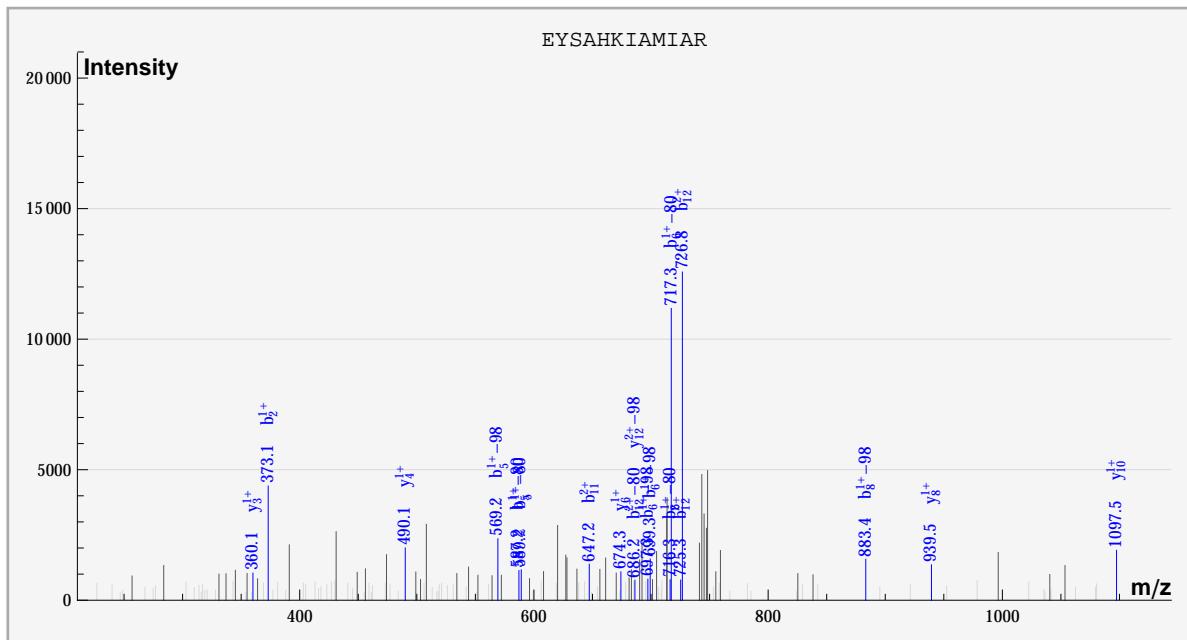
	♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2	✓		11				
S	3			10	✓			
A	4			9				
H	5		✓	8	✓			
K	6		✓	7				
I	7			6	✓			
A	8		✓	5				
M	9			4	✓			
I	10			3	✓			
A	11	✓		2				
R	12	✓	✓	1				

E Y S A H K I A M I A R

dbValid true RFVIASALSSNPK PHOS(1) 2. 737. −1.62078 5.09476 100. ? 1794.
S_Acido_new%gi|68567316|gb|AAY80245.1| RFVIASALSSNPK%::::::::::PHOS::::%sample_2%cmpd_474
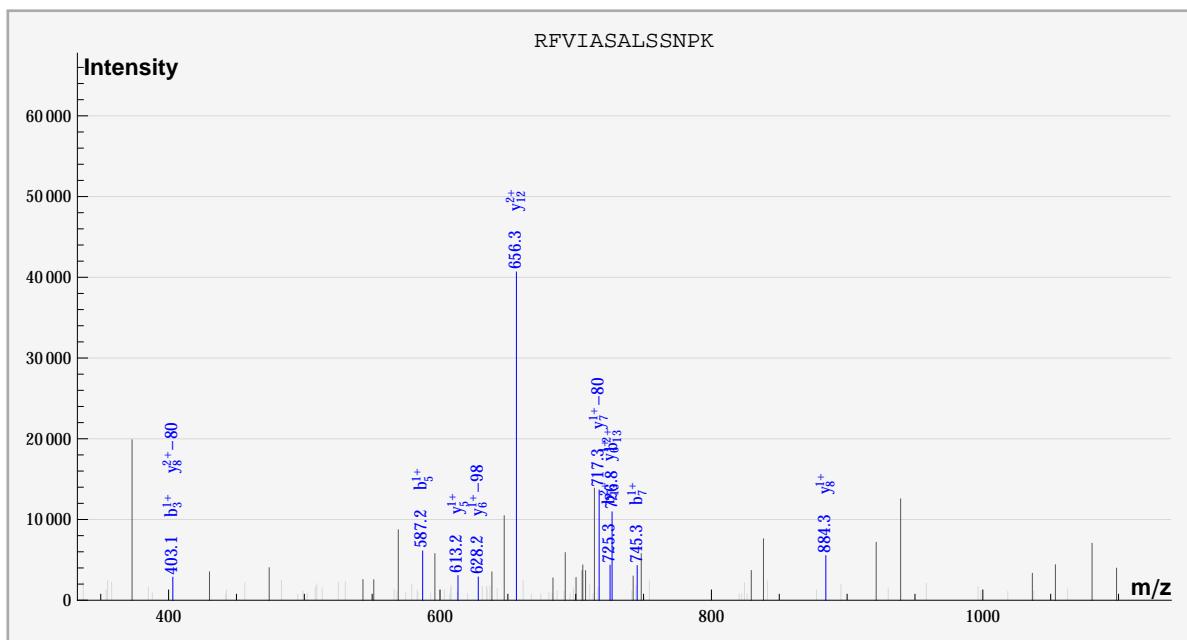
	♯	b	b*	♯	y	y*	P	P*
R	1							
F	2			12	✓			
V	3	✓		11				
I	4			10				
A	5	✓		9				
S	6			8	✓	✓		
A	7	✓		7		✓		
L	8			6	✓	✓		
S	9			5	✓			
S	10			4				
N	11			3				
P	12			2				
K	13	✓		1				

dbValid true YDWFSEMRKK PHOS(1) 2. 737. −1.68222 5.06454 100. ? 2214.
  S_Acido_new%gi|68568446|gb|AAY81375.1| YDWFSEMRKK%:PHOS::::::::::%sample_3%cmpd_824

	♯	b	b^*	♯	y	y^*	**P**	**P***
Y	1	✓						✓
D	2			9	✓			
W	3			8				
F	4	✓		7	✓			
S	5	✓	✓	6	✓			
E	6			5	✓			
M	7	✓		4				
R	8			3				
K	9	✓	✓	2				
K	10	✓	✓	1				

Y D W F S E M R K K
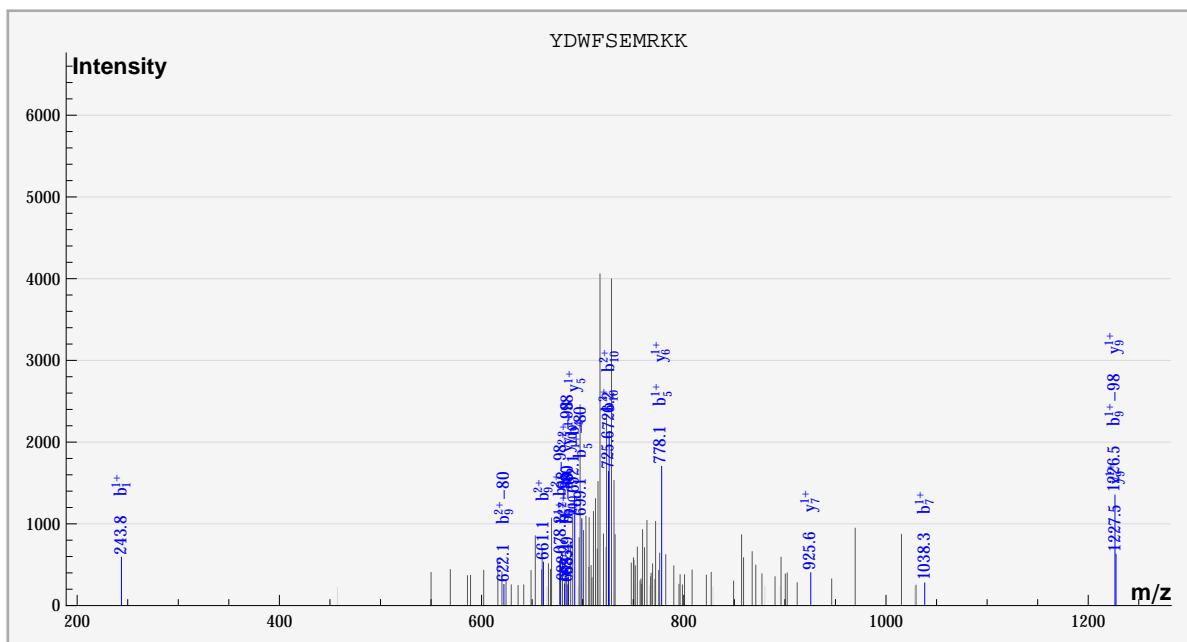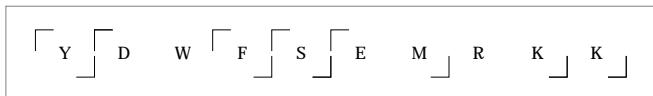
dbValid true YYPGGGDIYVK PHOS(3) 2. 737. −0.747233 5.20663 100. ? 2286.
S_Acido_new%gi|68566641|gb|AAY79570.1| YYPGGGDIYVK%:PHOS:PHOS:::::::PHOS:::%sample_3%cmpd_885

	#	b	b*		#	y	y*		P	P*
Y	1	✓								✓
Y	2	✓			10	✓				
P	3		✓		9					
G	4				8	✓	✓			
G	5	✓			7	✓	✓			
G	6	✓	✓		6	✓	✓			
D	7	✓	✓		5	✓	✓			
I	8		✓		4	✓				
Y	9	✓	✓		3					
V	10	✓	✓		2					
K	11	✓			1					

Y Y P G G G D I Y V K

dbValid true YYPGGGDIYVK PHOS(3) 2. 737. −0.747233 5.07403 100. ? 2310.
   S_Acido_new%gi|68566641|gb|AAY79570.1| YYPGGGDIYVK%:PHOS:PHOS:::::::PHOS:::%sample_3%cmpd_905

	♯	b	b*	♯	y	y*	P	P*
Y	1	✓						✓
Y	2	✓		10	✓			
P	3		✓	9		✓		
G	4	✓		8	✓	✓		
G	5	✓		7	✓	✓		
G	6	✓	✓	6	✓	✓		
D	7	✓	✓	5	✓			
I	8		✓	4	✓			
Y	9	✓	✓	3				
V	10		✓	2				
K	11	✓		1				

dbValid true YYPGGGDIYVK PHOS(3) 2. 737. −0.747233 5.07753 100. ? 2322.
S_Acido_new%gi|68566641|gb|AAY79570.1| YYPGGGDIYVK%:PHOS:PHOS:::::::PHOS:::%sample_3%cmpd_916

	♯	b	b*	♯	y	y*	P	P*
Y	1	✓						✓
Y	2	✓		10	✓			
P	3		✓	9		✓		
G	4	✓		8	✓	✓		
G	5	✓		7	✓	✓		
G	6		✓	6	✓	✓		
D	7	✓	✓	5	✓			
I	8		✓	4	✓			
Y	9	✓	✓	3				
V	10	✓	✓	2				
K	11	✓	✓	1				

dbValid true YDWFSEMRKK PHOS(1) 2. 737. −1.68222 5.01172 100. ? 2484.
S_Acido_new%gi|68568446|gb|AAY81375.1| YDWFSEMRKK%:PHOS::::::::::%sample_0%cmpd_1129
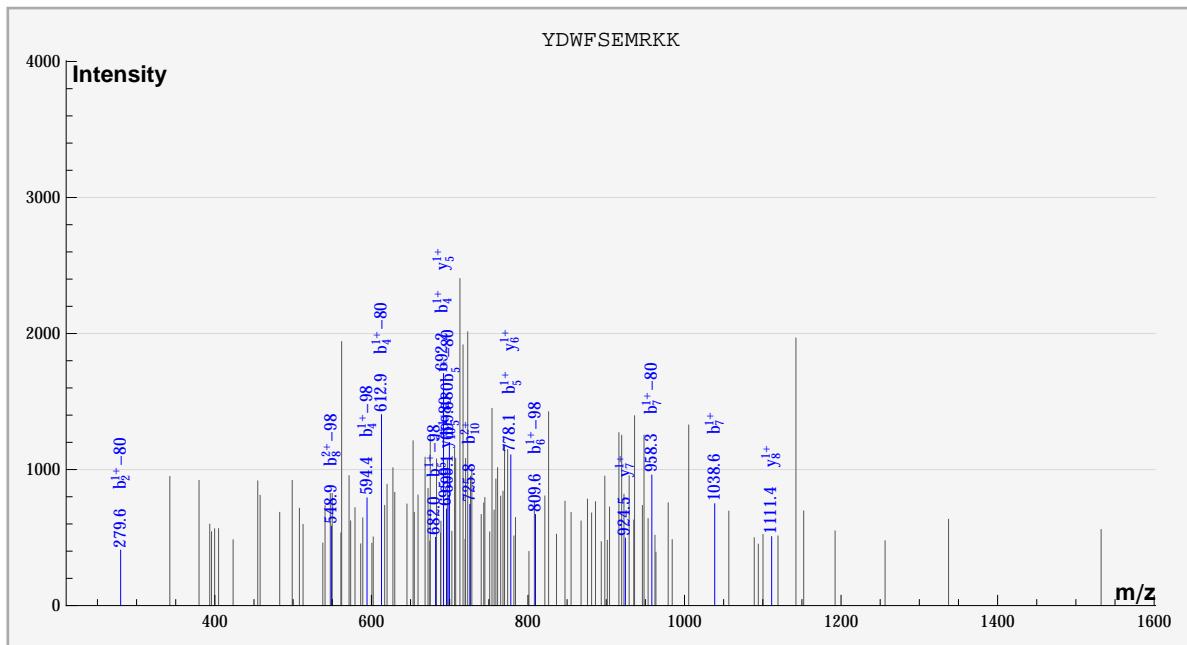
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
Y	1							✓
D	2		✓	9				
W	3			8	✓			
F	4	✓	✓	7	✓			
S	5	✓	✓	6	✓			
E	6		✓	5	✓			
M	7	✓	✓	4				
R	8		✓	3				
K	9			2				
K	10	✓		1				
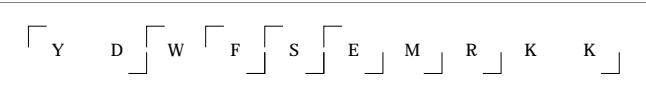
dbValid true ETIYSGGNWER PHOS(2) 2. 737. −0.731858 5.08918 100. ? 2502.
S_Acido_new%gi|68566944|gb|AAY79873.1| ETIYSGGNWER%::PHOS:::PHOS:::::::%sample_2%cmpd_1082

#	b	b*	#	y	y*	P	P*
E	1						
T	2			10			
I	3			9			
Y	4	✓	✓	8			
S	5		✓	7			
G	6	✓	✓	6	✓		
G	7	✓	✓	5			
N	8	✓		4	✓		
W	9			3	✓		
E	10			2	✓		
R	11	✓		1			

dbValid true GTKPPR PHOS(1) 1. 737. −1.64512 5.71007 100. ? 2568.
S_Acido_new%gi|68567861|gb|AAY80790.1| GTKPPR%::PHOS:::::%sample_0%cmpd_1207

GTKPPR
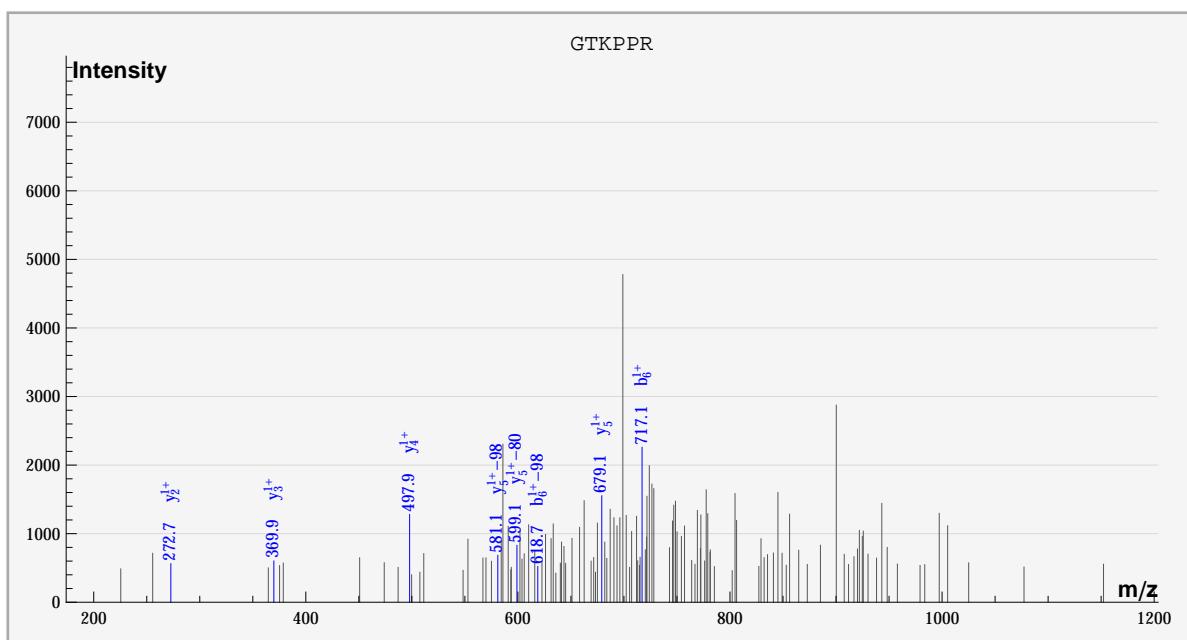
	♯	b	b*	♯	y	y*	P	P*
G	1							
T	2			5	✓	✓		
K	3			4	✓			
P	4			3	✓			
P	5			2	✓			
R	6	✓	✓	1				
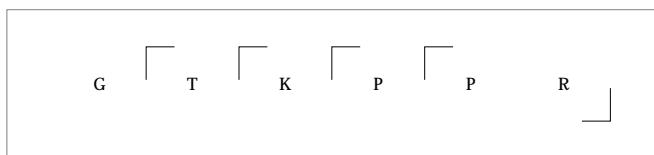
dbValid true EGKYTGTEIIER PHOS(1) 2. 737. 1.3425 5.30469 100. ? 4338.
S_Acido_new%gi|68568391|gb|AAY81320.1| EGKYTGTEIIER%::::PHOS::::::::::%sample_0%cmpd_2821

EGKYTGTEIIER

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
E	1							
G	2			11		✓		
K	3			10		✓		
Y	4			9				
T	5	✓		8		✓		
G	6	✓		7		✓		
T	7	✓	✓	6				
E	8	✓		5		✓		
I	9	✓		4				
I	10			3				
E	11	✓	✓	2				
R	12			1				

E ⌐G ⌐K Y ⌐T ⌐G⌐ T⌐ E⌐ I⌐ I E⌐ R

dbValid true LNSNVTLITRGK PHOS(2) 2. 738. 0.354552 5.2059 100. ? 2562.
 S_Acido_new%gi|68566825|gb|AAY79754.1| LNSNVTLITRGK%:::::PHOS:::PHOS::::%sample_2%cmpd_1118
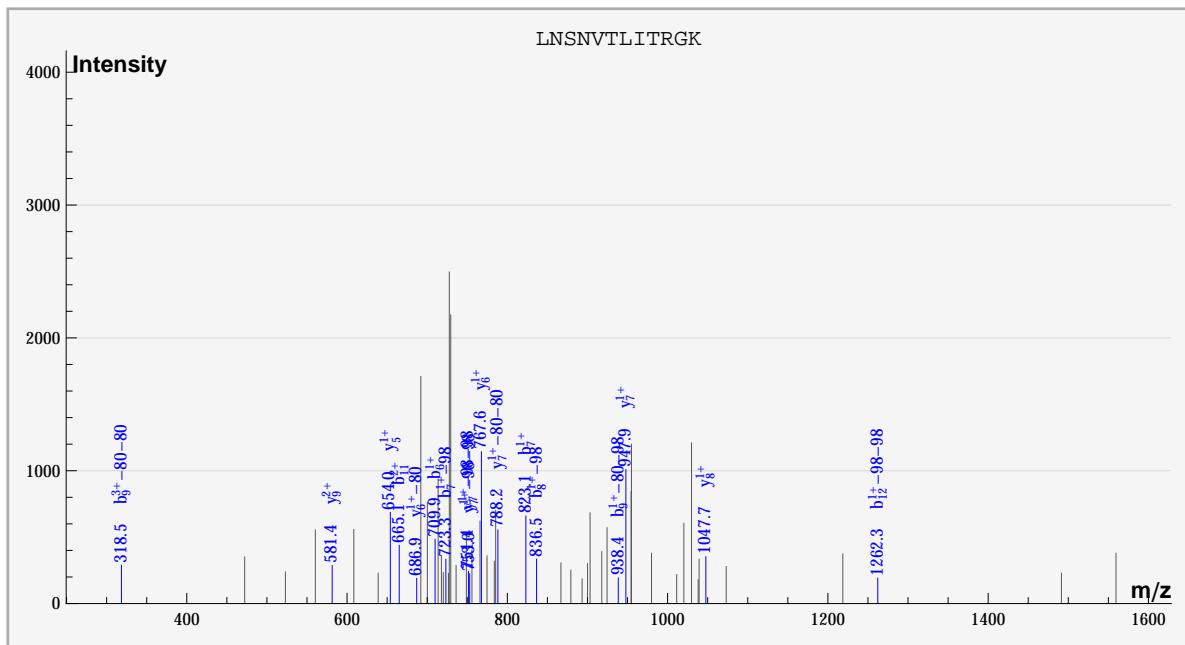
	♯	b	b*	♯	y	y*	P	P*
L	1							
N	2			11				
S	3			10				
N	4			9	✓			
V	5			8	✓			
T	6	✓		7	✓	✓		
L	7	✓	✓	6	✓	✓		
I	8		✓	5	✓			
T	9		✓	4				
R	10			3				
G	11	✓		2				
K	12		✓	1				

dbValid true VISLLI PHOS(1) 1. 739. −1.57917 5.22947 100. ? 2850.
    S_Acido_new%gi|68567764|gb|AAY80693.1| VISLLI%:::PHOS::::%sample_0%cmpd_1464
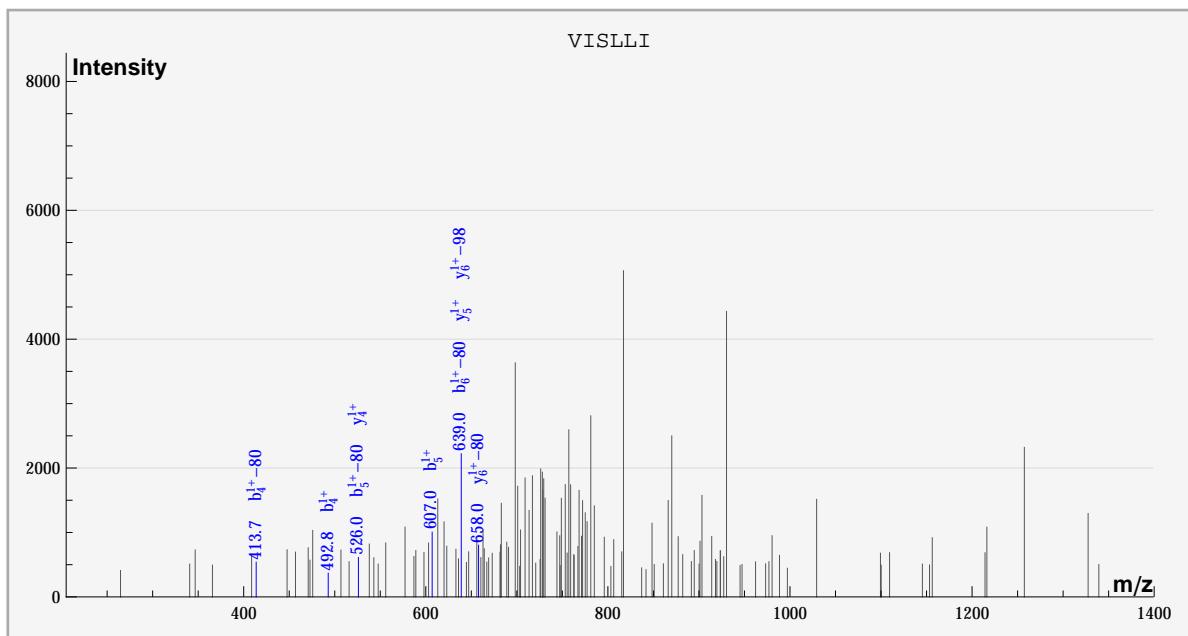
	♯	b	b*	♯	y	y*	P	P*
V	1							✓
I	2			5	✓			
S	3			4	✓			
L	4	✓	✓	3				
L	5	✓	✓	2				
I	6		✓	1				
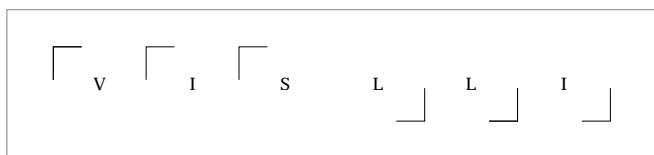
dbValid true KTKTVSTTATDSR PHOS(1) 2. 739. −0.641308 5.56544 100. ? 2886.
  S_Acido_new%gi|68568452|gb|AAY81381.1| KTKTVSTTATDSR%::::::::::::PHOS::%sample_0%cmpd_1497

	♯	b	b*	♯	y	y*	P	P*
K	1							
T	2			12				
K	3			11				
T	4	✓		10	✓	✓		
V	5	✓		9		✓		
S	6	✓		8	✓			
T	7			7				
T	8			6	✓	✓		
A	9	✓		5		✓		
T	10			4	✓	✓		
D	11	✓		3	✓			
S	12	✓		2	✓	✓		
R	13	✓		1				
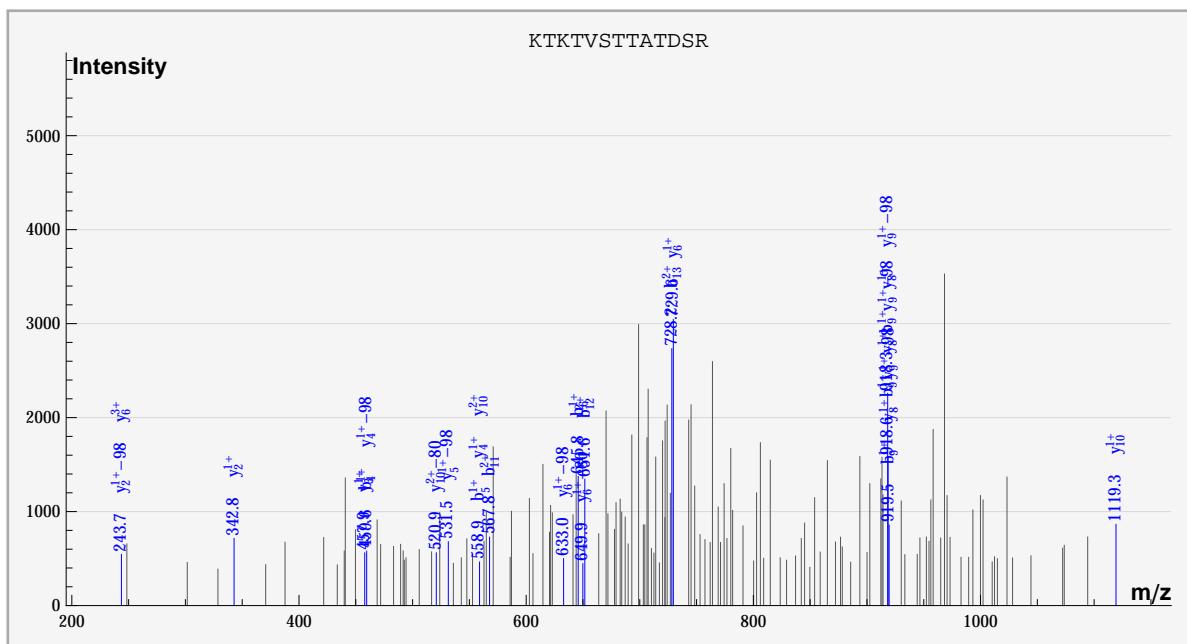
dbValid true WTTITQRERK PHOS(2) 2. 740. −0.168753 5.16036 100. ? 2850.
S_Acido_new%gi|68568234|gb|AAY81163.1| WTTITQRERK%::PHOS:PHOS::::::::%sample_1%cmpd_1462
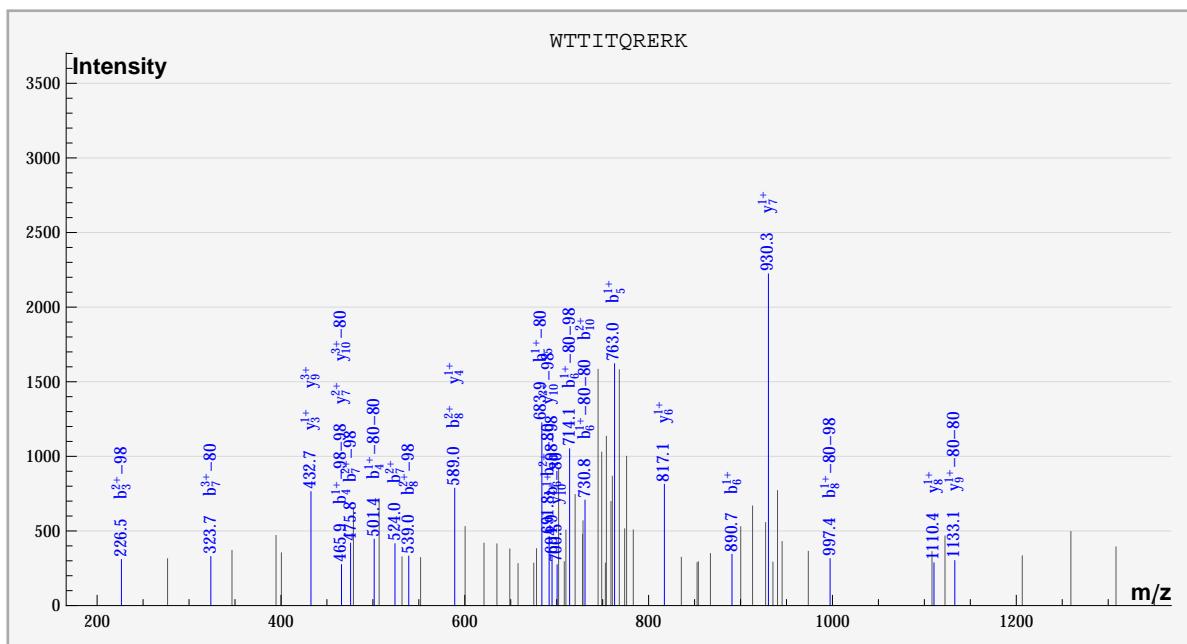
	#	b	b*	#	y	y*	P	P*
W	1							✓
T	2			9	✓	✓		
T	3		✓	8	✓			
I	4		✓	7	✓			
T	5	✓	✓	6	✓			
Q	6	✓	✓	5				
R	7	✓	✓	4	✓			
E	8	✓	✓	3	✓			
R	9			2				
K	10	✓	✓	1				
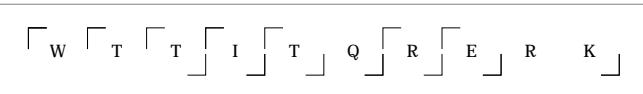
dbValid true ADIVIVTGGSSAGEK PHOS(1) 2. 741. 1.3556 5.03726 100. ? 2208.
  S_Acido_new%gi|68567406|gb|AAY80335.1| ADIVIVTGGSSAGEK%::::::::::PHOS:::::%sample_1%cmpd_875
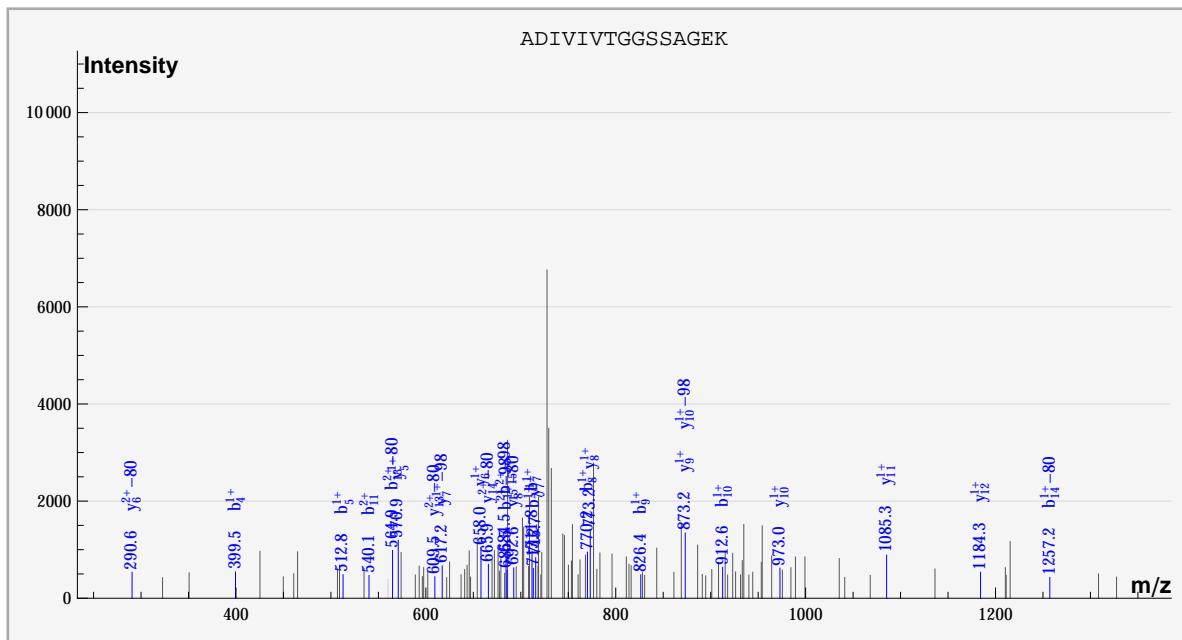
	♯	b	b^*	♯	y	y^*	**P**	**P***
A	1							
D	2			14		✓		
I	3			13		✓		
V	4	✓		12	✓			
I	5	✓		11	✓			
V	6			10	✓	✓		
T	7	✓		9	✓			
G	8	✓		8	✓	✓		
G	9	✓		7	✓	✓		
S	10	✓		6	✓	✓		
S	11	✓		5	✓			
A	12			4				
G	13		✓	3				
E	14		✓	2				
K	15		✓	1				

A ⌐D ⌐I ⌐V⌐ I ⌐V T⌐ G⌐ G⌐ S⌐ S⌐ A G⌐ E⌐ K⌐
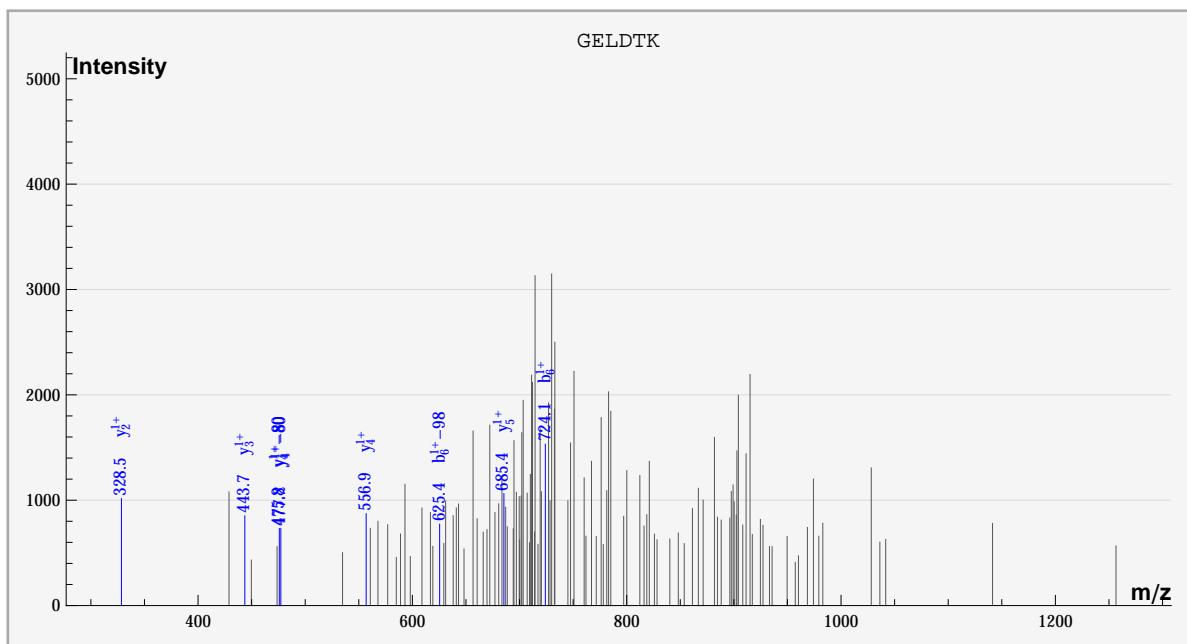
	♯	b	b*	♯	y	y*	P	P*
G	1							
E	2			5	✓			
L	3			4	✓	✓		
D	4			3	✓			
T	5			2	✓			
K	6	✓	✓	1				
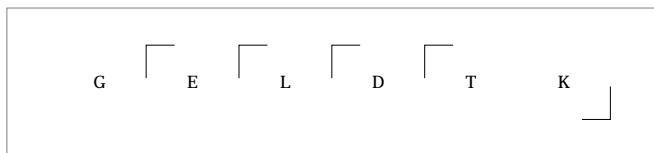
dbValid   true   AVDTTR   PHOS(1)   1.   741.   1.31309   5.44695   100.   ?   3858.
S_Acido_new%gi|68567048|gb|AAY79977.1| AVDTTR%::::PHOS:::%sample_1%cmpd_2382
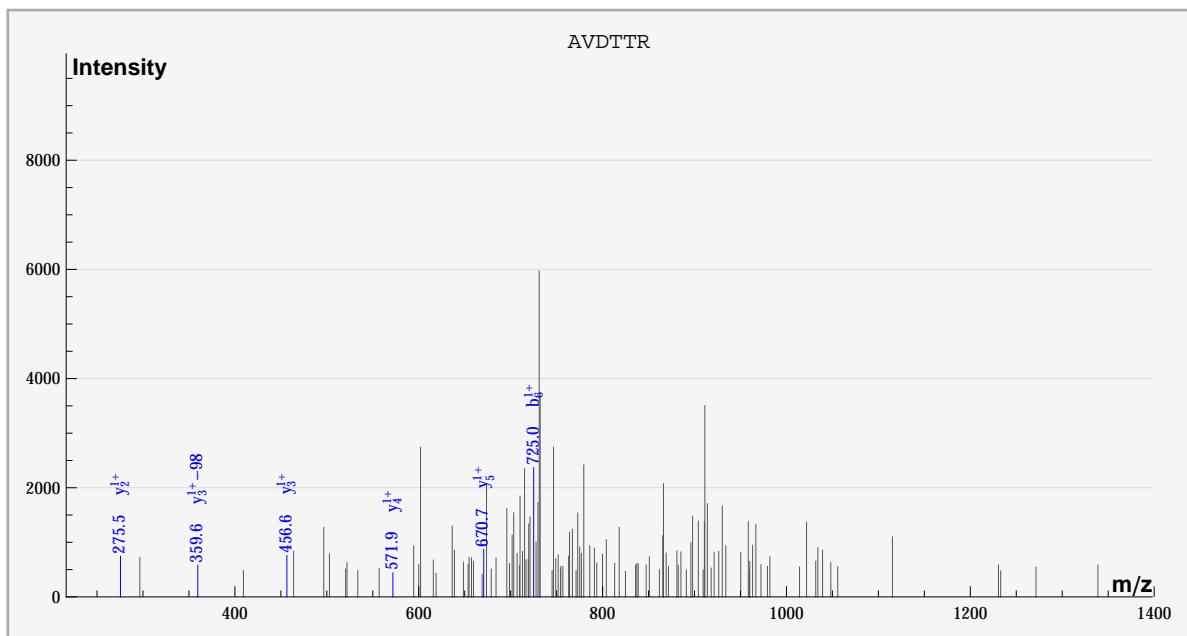
	#	b	b*		#	y	y*		P	P*
A	1									
V	2				5	✓				
D	3				4	✓				
T	4				3	✓	✓			
T	5				2	✓				
R	6	✓			1					
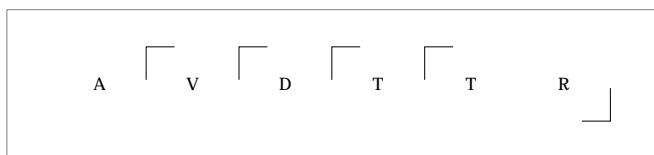
dbValid true GKVTKK PHOS(1) 1. 742. −1.59342 5.38066 100. ? 2028.
    S_Acido_new%gi|68567254|gb|AAY80183.1| GKVTKK%::::PHOS:::%sample_1%cmpd_710
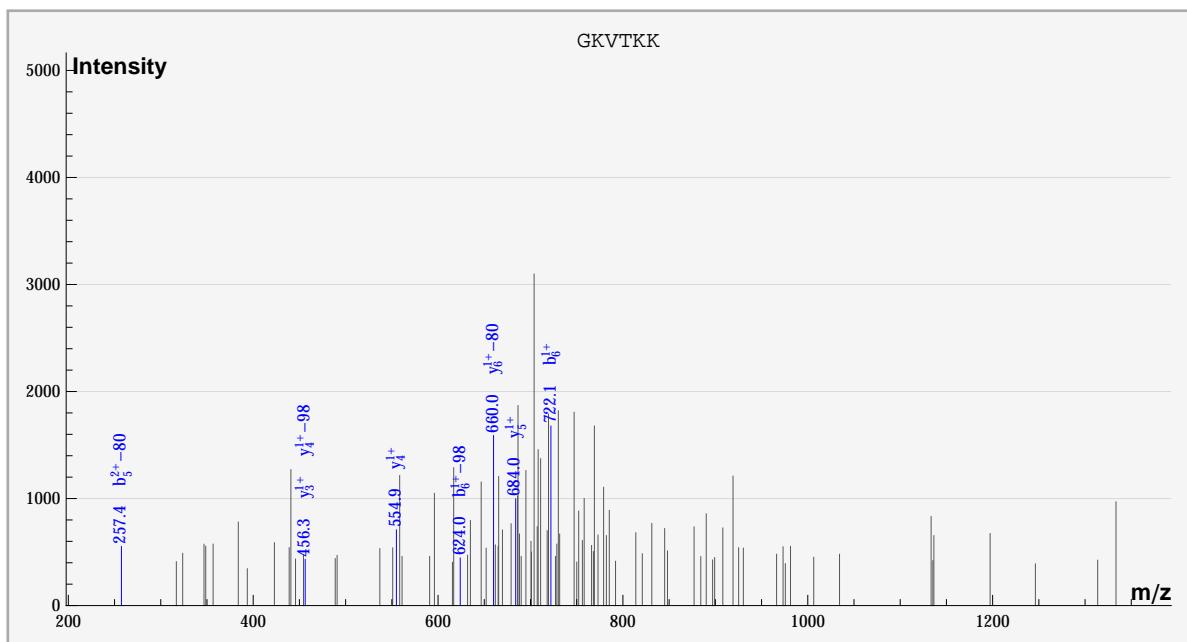
	♯	b	b*	♯	y	y*	P	P*
G	1							✓
K	2			5	✓			
V	3			4	✓	✓		
T	4			3	✓			
K	5		✓	2				
K	6	✓	✓	1				
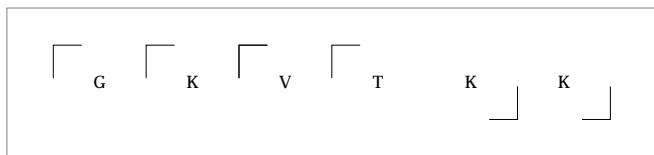
dbValid true QLITVWRYSR PHOS(2) 2. 743. −1.66129 5.07155 100. ? 1506.
S_Acido_new%gi|68566691|gb|AAY79620.1| QLITVWRYSR%::::::::PHOS:PHOS::%sample_3%cmpd_219

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Q	1							
L	2			9				
I	3	✓		8				
T	4	✓		7				
V	5	✓		6		✓		
W	6			5		✓		
R	7			4				
Y	8			3		✓		
S	9		✓	2	✓	✓		
R	10			1				

dbValid true ISNIISAYSTTR PHOS(2) 2. 743. 0.322922 5.75245 100. ? 2904.
S_Acido_new%gi|68566759|gb|AAY79688.1| ISNIISAYSTTR%::PHOS::::::::::PHOS::%sample_1%cmpd_1509

ISNIISAYSTTR
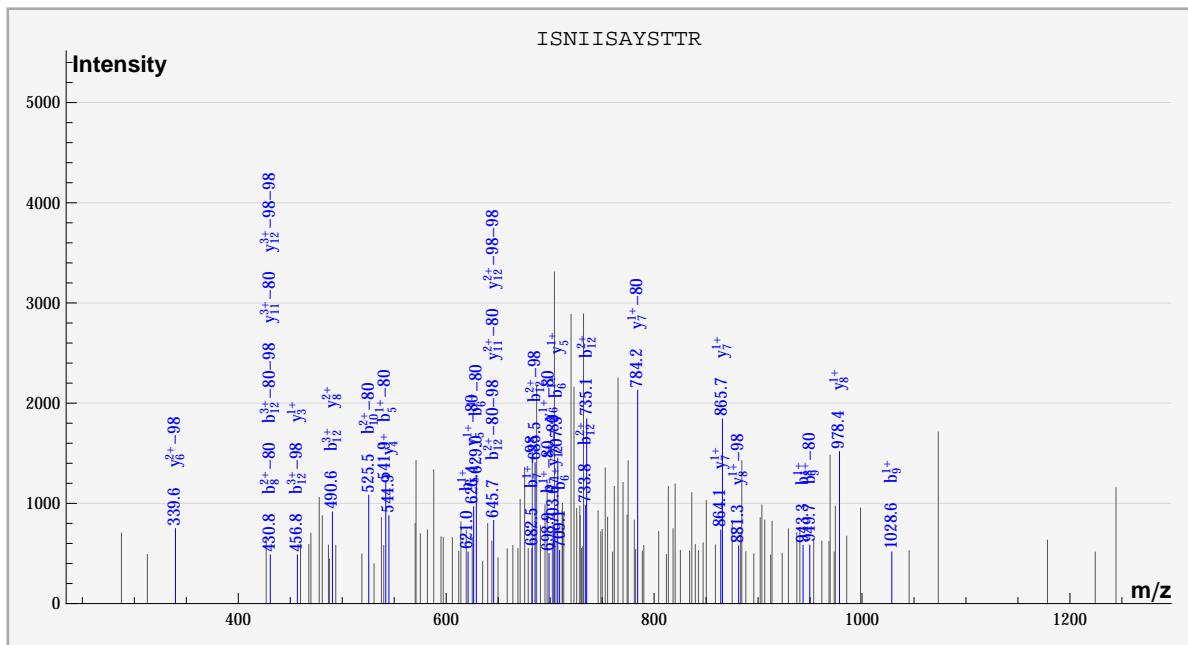
	#	b	b*	#	y	y*	P	P*
I	1							✓
S	2			11		✓		
N	3			10				
I	4			9				
I	5	✓	✓	8	✓	✓		
S	6	✓	✓	7	✓	✓		
A	7		✓	6		✓		
Y	8	✓	✓	5	✓	✓		
S	9	✓	✓	4	✓			
T	10		✓	3	✓			
T	11			2				
R	12	✓	✓	1				

I S N I I S A Y S T T R

dbValid true IGQGYK PHOS(1) 1. 744. 1.32801 5.03363 100. ? 1698.
S_Acido_new%gi|68567363|gb|AAY80292.1| IGQGYK%:::::PHOS::%sample_1%cmpd_412
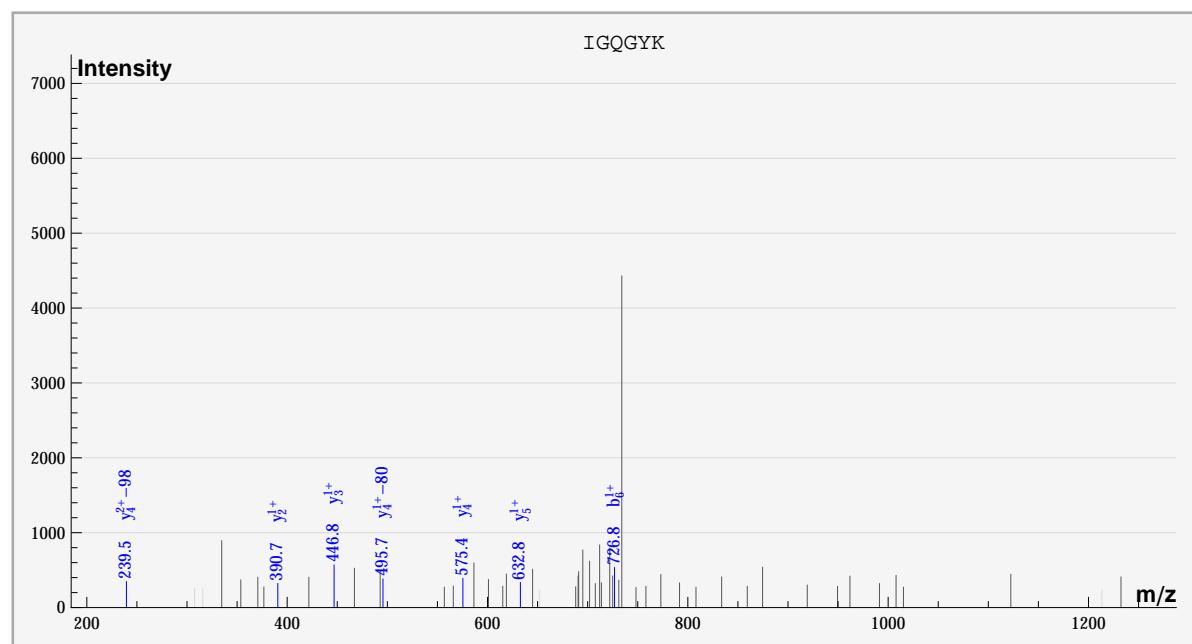
♯	b	b*	♯	y	y*	P	P*
I	1						
G	2		5	✓			
Q	3		4	✓	✓		
G	4		3	✓			
Y	5		2	✓			
K	6	✓	1				

I G Q G Y K
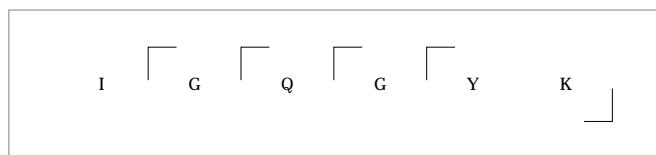
dbValid   true   KYRVKPWQMR   Oxidation_M(1),PHOS(1)   2.   744.   0.370677   5.93728   100.   ?   1980.
S_Acido_new%gi|68568488|gb|AAY81417.1| KYRVKPWQMR%::PHOS:::::::Oxidation_M::%sample_1%cmpd_668

KYRVKPWQMR

	#	b	b*	#	y	y*	P	P*
K	1							
Y	2			9				
R	3		✓	8				
V	4			7	✓			
K	5			6	✓			
P	6			5	✓			
W	7		✓	4	✓			
Q	8			3	✓			
M	9			2	✓			
R	10	✓	✓	1				

K   Y   R   V   K   P   W   Q   M   R

dbValid true AVVIAAGGMGMLYR PHOS(1) 2. 744. 0.858752 5.51156 100. ? 2028.
S_Acido_new%gi|68567414|gb|AAY80343.1| AVVIAAGGMGMLYR%::::::::::::PHOS::%sample_1%cmpd_712
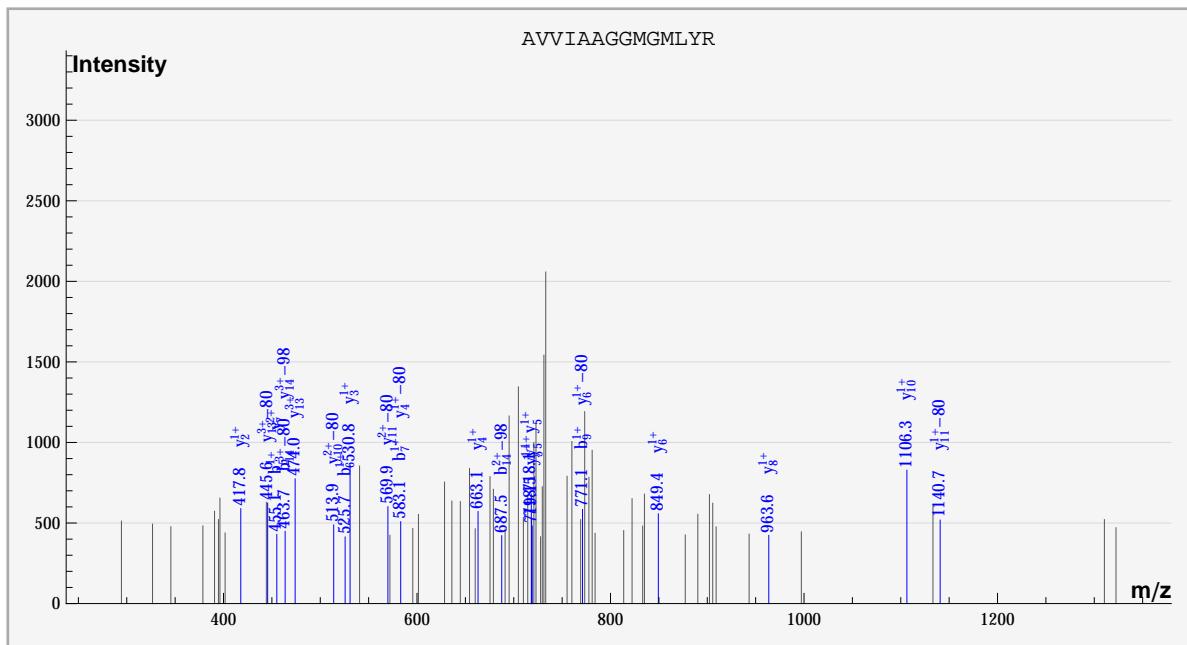
	#	b	b*	#	y	y*	P	P*
A	1							✓
V	2			13	✓	✓		
V	3			12				
I	4			11		✓		
A	5	✓		10	✓	✓		
A	6	✓		9				
G	7	✓		8	✓			
G	8			7	✓			
M	9	✓		6	✓	✓		
G	10			5	✓			
M	11			4	✓	✓		
L	12			3	✓			
Y	13			2	✓			
R	14		✓	1				

⌐A ⌐V V ⌐I ⌐A⌐ A⌐ G⌐ G ⌐M⌐ G ⌐M ⌐L ⌐Y R⌐

dbValid true DVNTVILGSTAYR PHOS(1) 2. 744. 0.858322 5.53857 100. ? 3582.
    S_Acido_new%gi|68568645|gb|AAY81574.1| DVNTVILGSTAYR%::::PHOS::::::::::%sample_1%cmpd_2130

	#	b	b*	#	y	y*	P	P*
D	1							✓
V	2			12		✓		
N	3			11		✓		
T	4	✓		10				
V	5	✓	✓	9		✓		
I	6	✓		8		✓		
L	7		✓	7		✓		
G	8		✓	6		✓		
S	9	✓		5		✓		
T	10		✓	4		✓		
A	11			3				
Y	12	✓	✓	2				
R	13		✓	1				
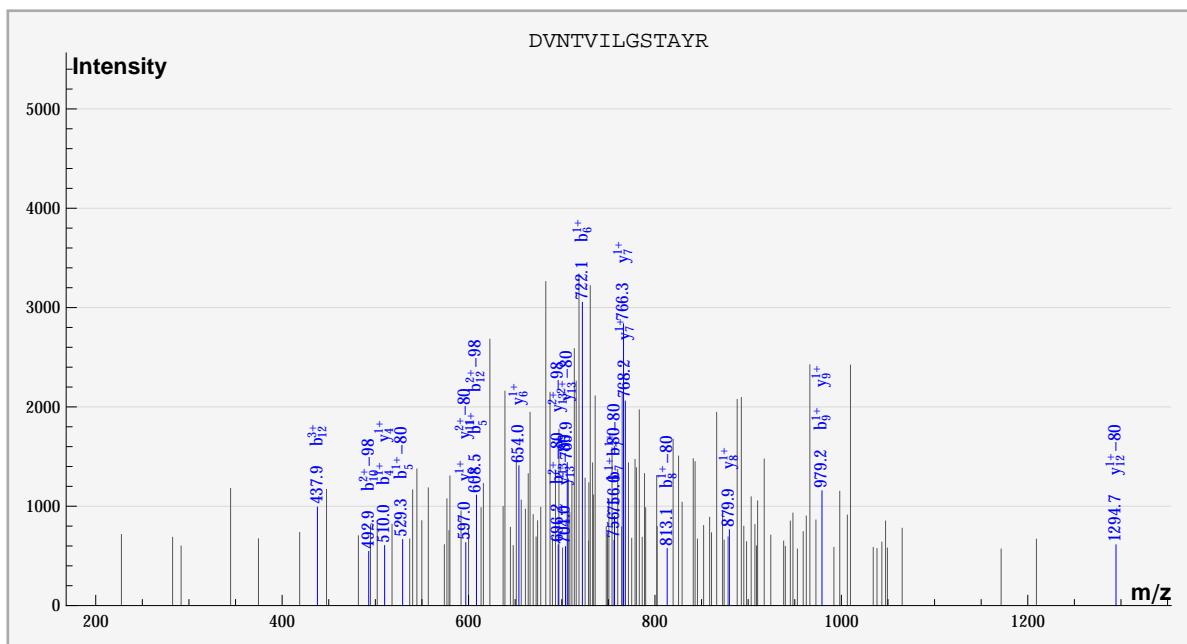
dbValid true SSSVKR PHOS(1) 1. 744. −0.655275 5.7592 100. ? 5016.
S_Acido_new%gi|68567390|gb|AAY80319.1| SSSVKR%::PHOS:::::%sample_1%cmpd_3430
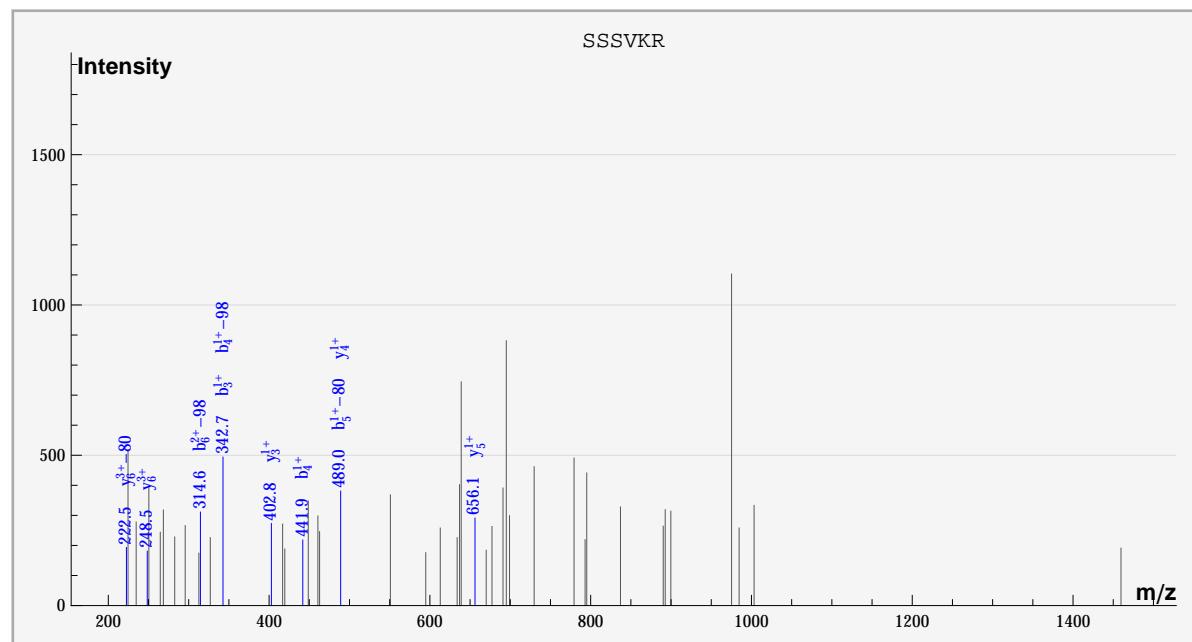
	♯	b	b*	♯	y	y*	P	P*
S	1						✓	✓
S	2			5	✓			
S	3	✓		4	✓			
V	4	✓	✓	3	✓			
K	5		✓	2				
R	6		✓	1				
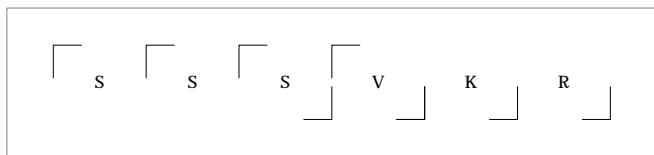
dbValid   true   MVSAIVLAGGYATR   PHOS(1)   2.   744.61   0.257632   5.71195   100.   ?   1962.
S_Acido_new%gi|68566686|gb|AAY79615.1| MVSAIVLAGGYATR%::::::::::::PHOS::%sample_1%cmpd_632
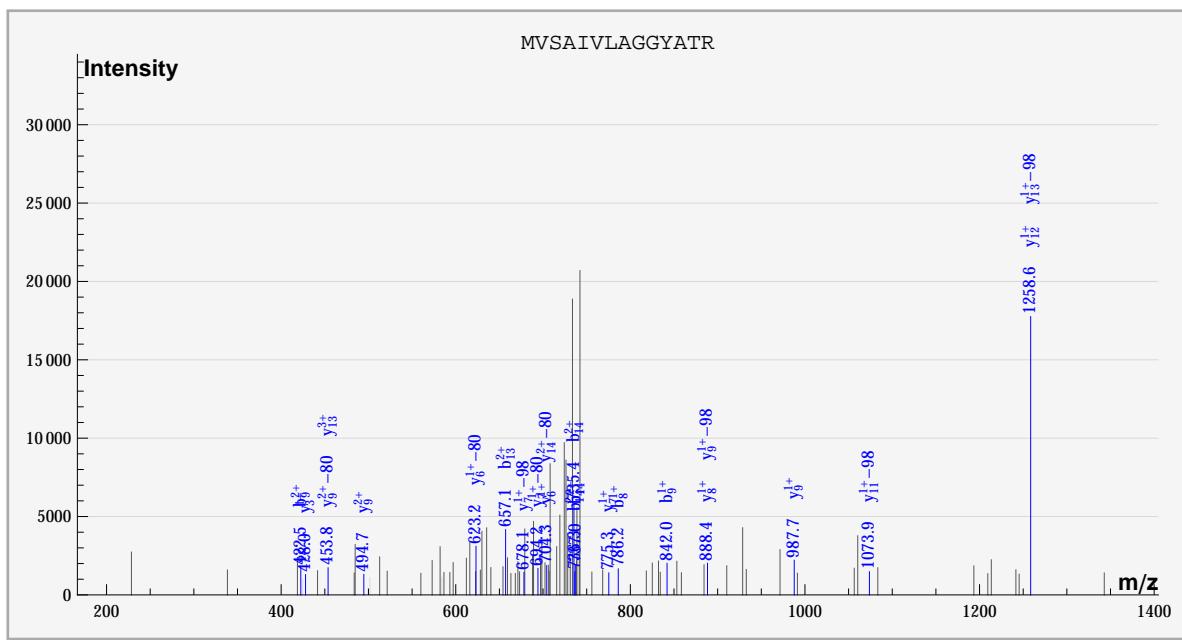
	♯	b	b*	♯	y	y*	P	P*
M	1							✓
V	2			13	✓	✓		
S	3			12	✓			
A	4			11		✓		
I	5			10				
V	6			9	✓	✓		
L	7			8	✓			
A	8	✓		7	✓	✓		
G	9	✓		6	✓	✓		
G	10			5				
Y	11			4				
A	12			3	✓			
T	13	✓		2				
R	14	✓		1				

⌈M ⌈V ⌈S ⌈A I ⌈V ⌈L ⌈A⌐G⌐ G Y ⌈A T⌐ R⌐

dbConflictWinner true KMGISK PHOS(1) 1. 745. −1.64789 5.65159 100. ?
1314. S_Acido_new%gi|68568641|gb|AAY81570.1| KMGISK%:::::PHOS::%sample_3%cmpd_71
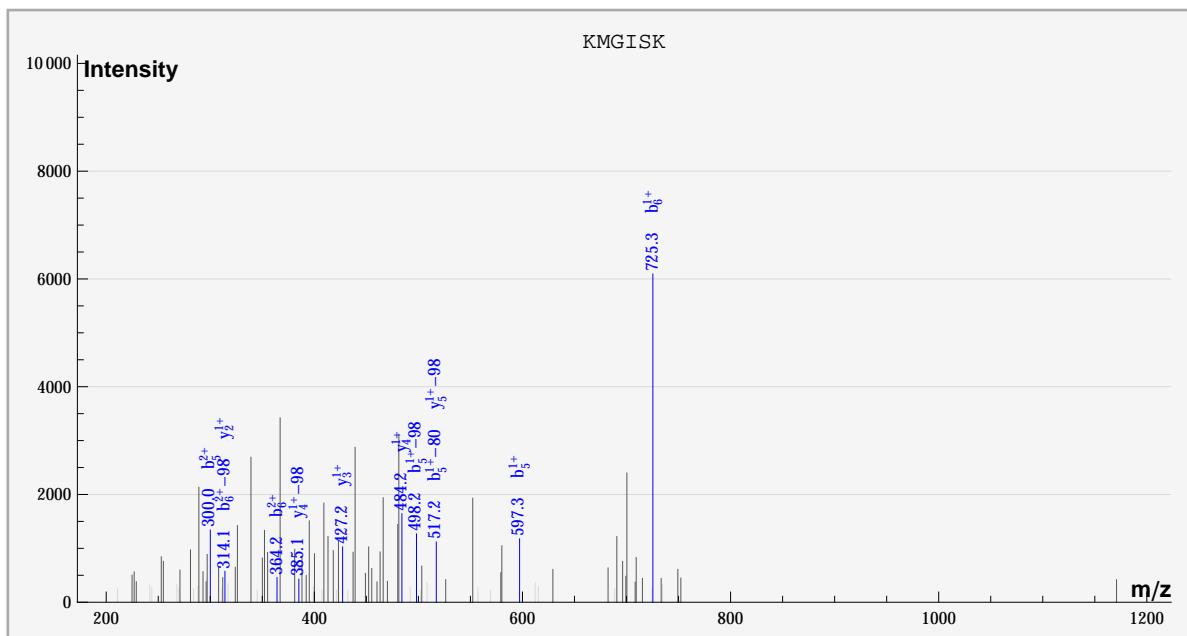
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
K	1							
M	2			5		✓		
G	3			4	✓	✓		
I	4			3	✓			
S	5	✓	✓	2	✓			
K	6	✓	✓	1				
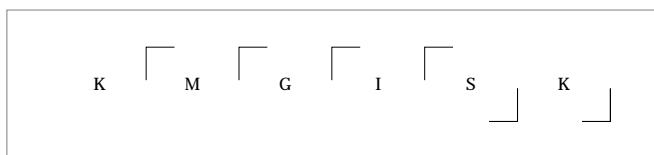
dbConflictWinner true KMGISK PHOS(1) 1. 745. −1.64789 5.39131 100. ?
   1518. S_Acido_new%gi|68568641|gb|AAY81570.1| KMGISK%:::::PHOS::%sample_3%cmpd_231
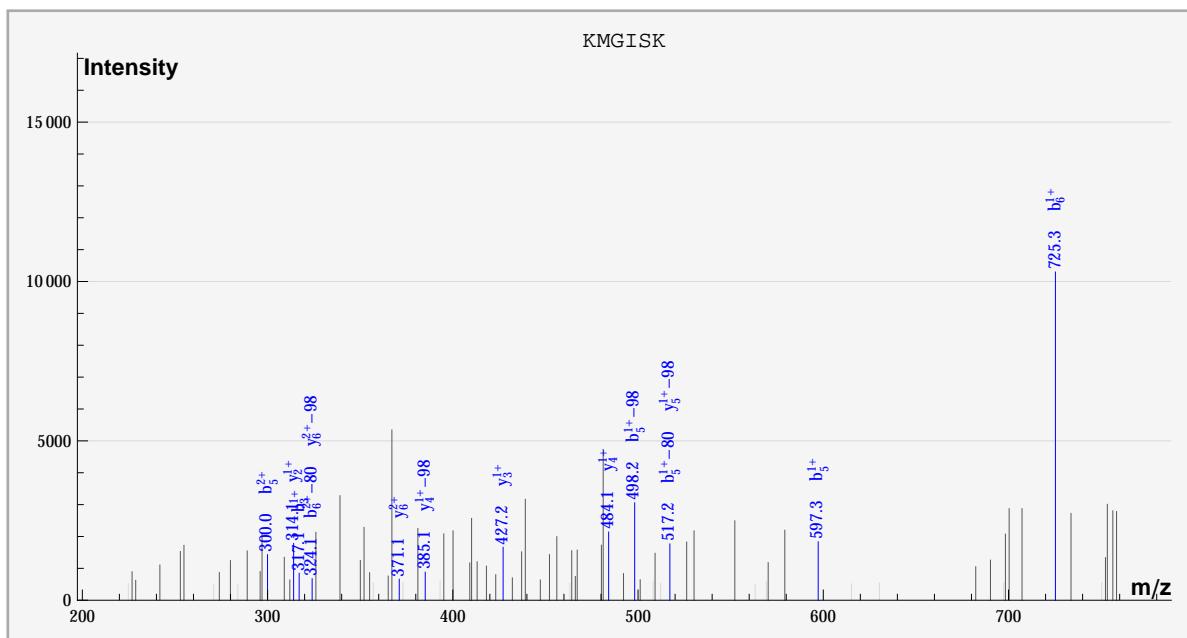
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
K	1						✓	✓
M	2			5		✓		
G	3	✓		4	✓	✓		
I	4			3	✓			
S	5	✓	✓	2	✓			
K	6	✓	✓	1				
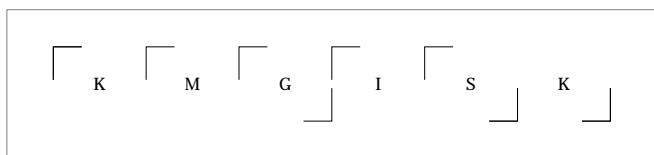
dbValid true KMGISK PHOS(1) 1. 745. −1.64789 5.06395 100. ? 2634.
S_Acido_new%gi|68568641|gb|AAY81570.1| KMGISK%:::::PHOS::%sample_3%cmpd_1175
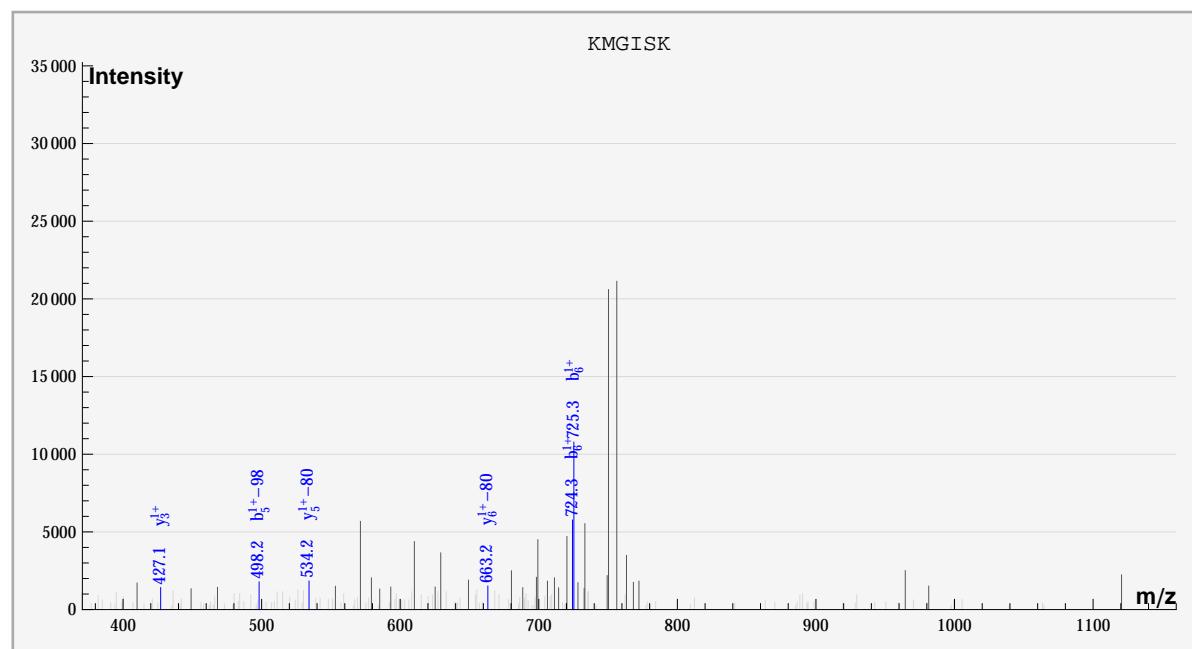
	#	b	b*	#	y	y*	P	P*
K	1							✓
M	2			5		✓		
G	3			4				
I	4			3		✓		
S	5		✓	2				
K	6	✓		1				
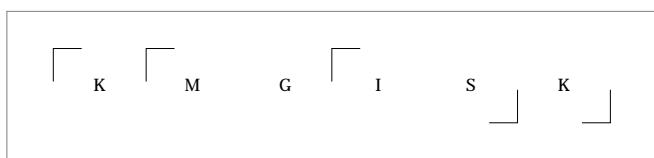
dbValid true KMGISK PHOS(1) 1. 745. −1.64789 5.00951 100. ? 2646.
   S_Acido_new%gi|68568641|gb|AAY81570.1| KMGISK%:::::PHOS::%sample_3%cmpd_1185
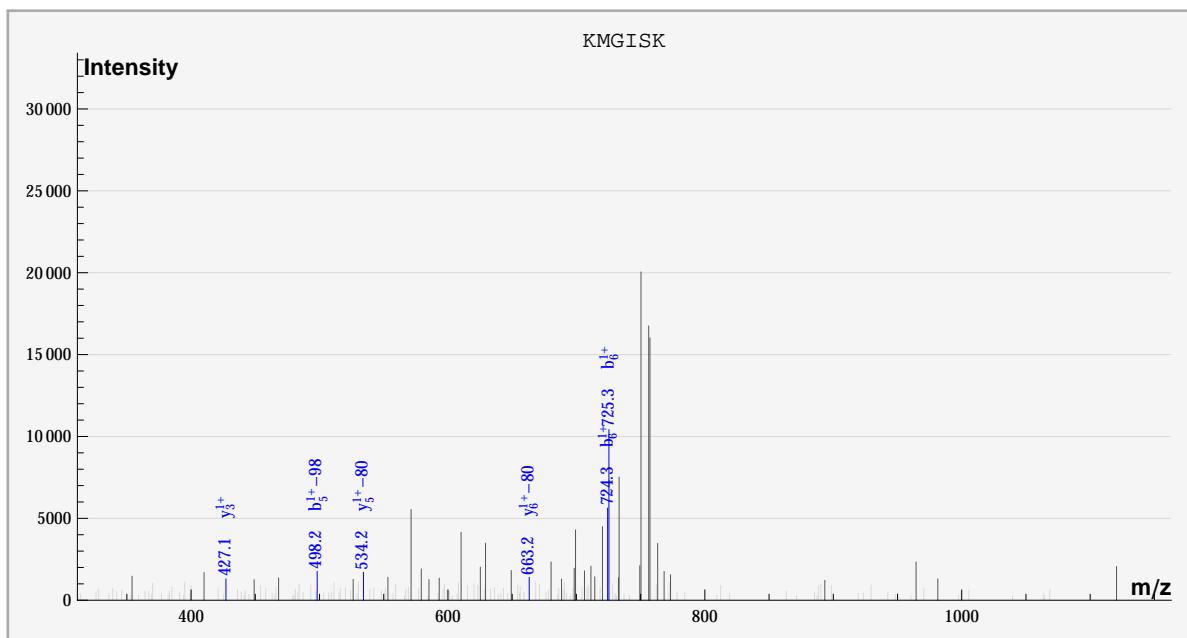
	#	b	b*	#	y	y*	P	P*
K	1							✓
M	2			5		✓		
G	3			4				
I	4			3	✓			
S	5		✓	2				
K	6	✓		1				
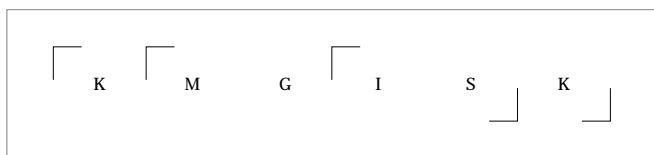
dbValid true KTLSSK PHOS(1) 1. 745. −1.63013 5.1362 100. ? 3030.
S_Acido_new%gi|68568179|gb|AAY81108.1| KTLSSK%::::PHOS:::%sample_3%cmpd_1510
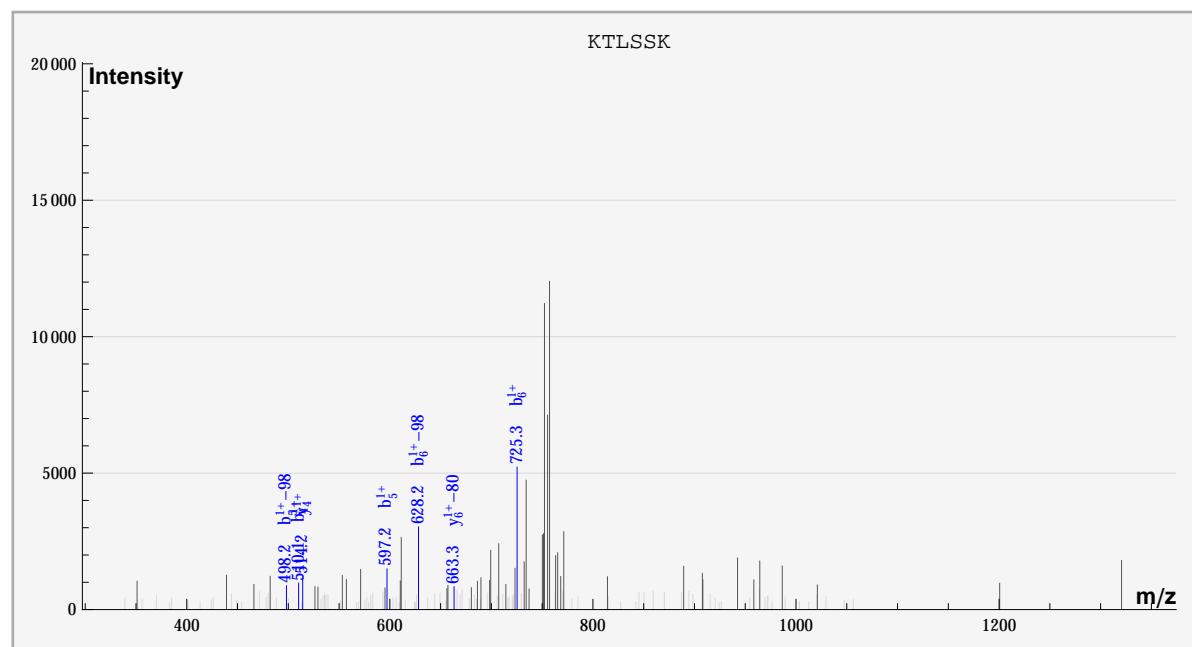
KTLSSK

	#	b	b*	#	y	y*	P	P*
K	1							✓
T	2			5				
L	3			4	✓			
S	4	✓		3				
S	5	✓	✓	2				
K	6	✓	✓	1				
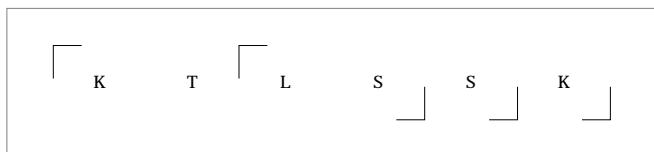
dbValid true KTLSSK PHOS(1) 1. 745. −1.63013 5.13274 100. ? 3042.
   S_Acido_new%gi|68568179|gb|AAY81108.1| KTLSSK%::::PHOS:::%sample_3%cmpd_1520
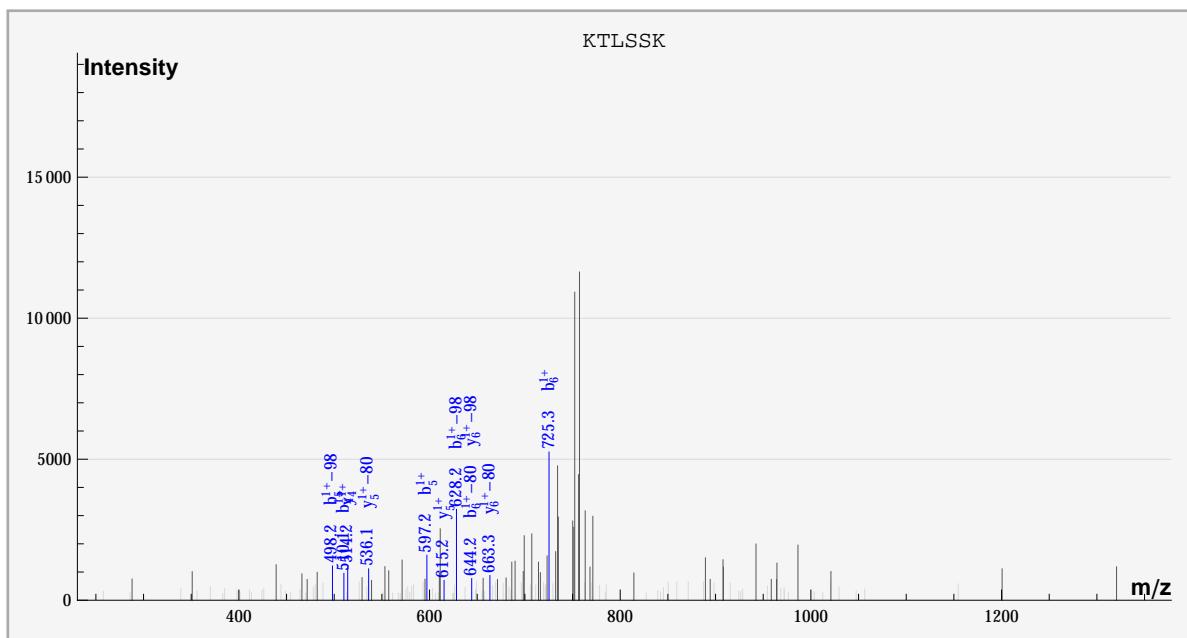
♯	b	b*	♯	y	y*	P	P*
K	1							✓
T	2			5	✓	✓		
L	3			4	✓			
S	4	✓		3				
S	5	✓	✓	2				
K	6	✓	✓	1				
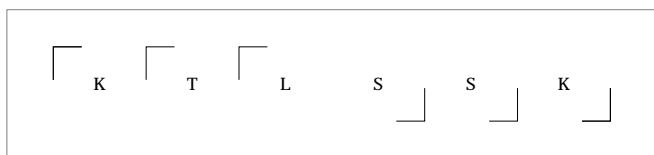
dbValid true RVKMLYSILQGT PHOS(1) 2. 746. −1.11417 5.36971 100. ? 2478.
S_Acido_new%gi|68567308|gb|AAY80237.1| RVKMLYSILQGT%::::::::::::PHOS:%sample_3%cmpd_1045

RVKMLYSILQGT

	#	b	b*	#	y	y*	P	P*
R	1							
V	2			11				
K	3			10				
M	4			9				
L	5	✓		8				
Y	6			7		✓		
S	7			6	✓			
I	8			5	✓			
L	9			4	✓	✓		
Q	10			3				
G	11			2				
T	12	✓		1				

R V K M L⌐Y ⌐S ⌐I ⌐L Q G T⌐
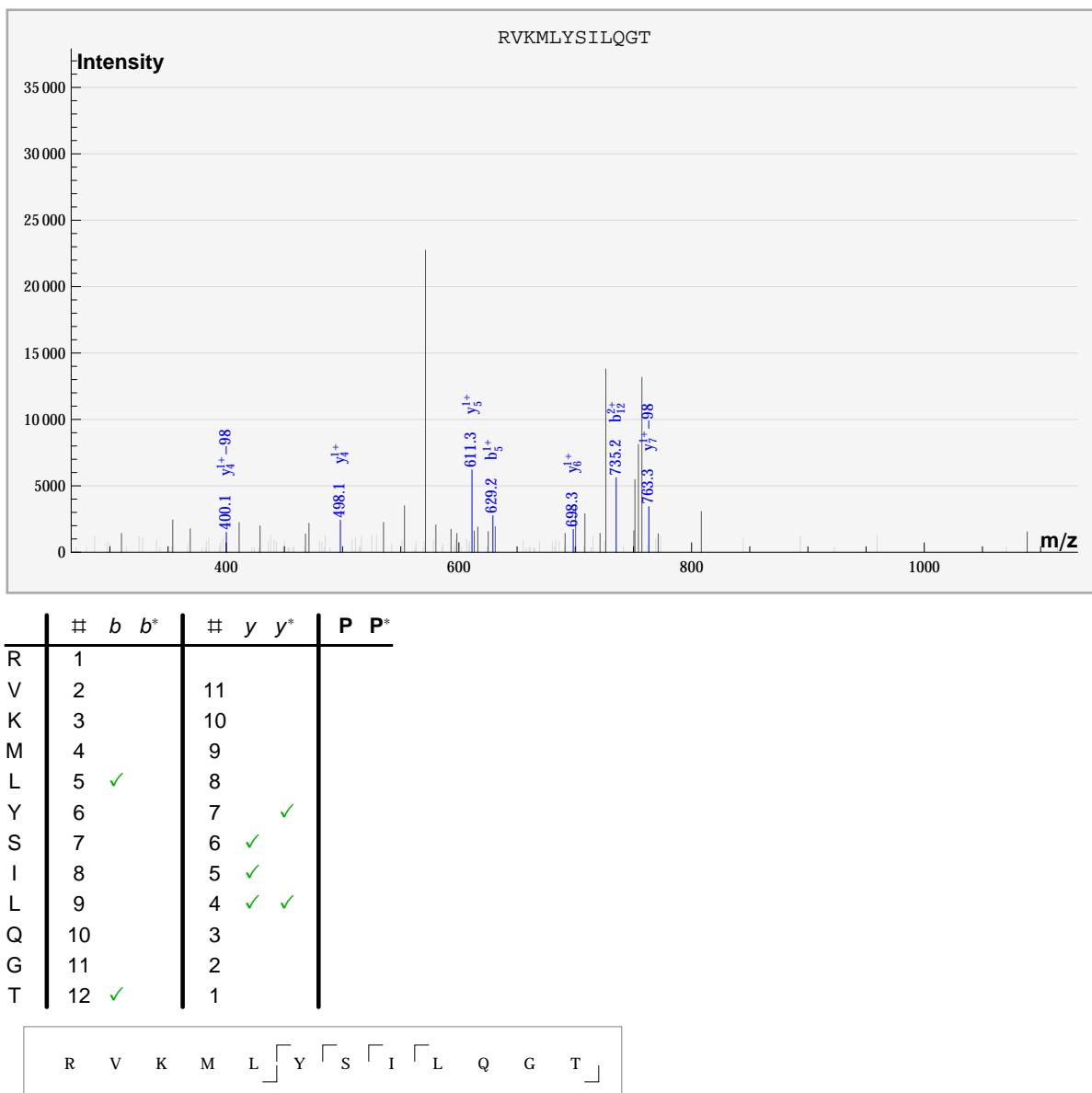
dbValid true KGMSVAAALAAKSK PHOS(2) 2. 746. 0.853322 5.58199 100. ? 2502.
  S_Acido_new%gi|68567491|gb|AAY80420.1| KGMSVAAALAAKSK%::::PHOS::::::::::PHOS::%sample_1%cmpd_1146
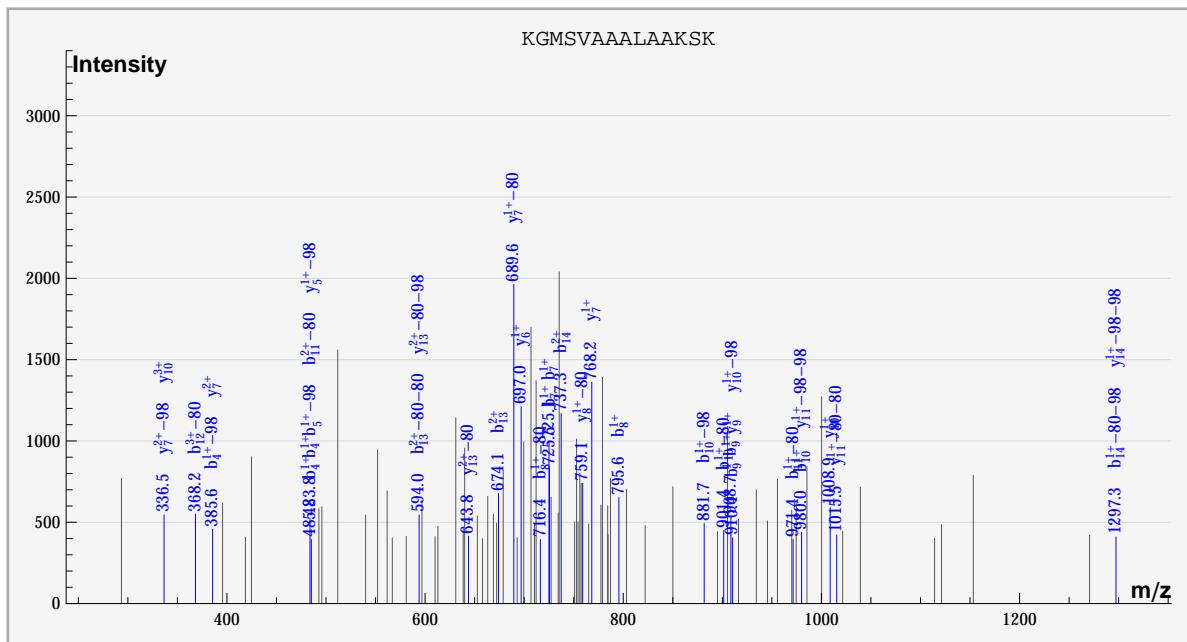
	♯	b	b*	♯	y	y*	P	P*
K	1							✓
G	2			13		✓		
M	3			12				
S	4	✓	✓	11		✓		
V	5		✓	10	✓	✓		
A	6			9	✓			
A	7	✓		8		✓		
A	8	✓	✓	7	✓	✓		
L	9	✓		6	✓			
A	10	✓	✓	5		✓		
A	11		✓	4				
K	12		✓	3				
S	13	✓	✓	2				
K	14	✓	✓	1				

K G M S V A A A L A A K S K

dbValid true STNLVVYHLKR PHOS(2) 2. 747. −1.64819 5.27117 100. ? 3324.
 S_Acido_new%gi|68566932|gb|AAY79861.1| STNLVVYHLKR%:PHOS:PHOS:::::::::%sample_3%cmpd_1755

STNLVVYHLKR

Intensity

15 000

10 000

5000

0

$b_7^{1+}-80-98$
758.3

$b_6^{1+}-80-80$
614.2

b_{10}^{2+}
658.2

y_5^{1+}
716.3

b_{11}^{2+}
736.2

b_6^{1+}
774.3

773.3

600   800   1000   1200   m/z
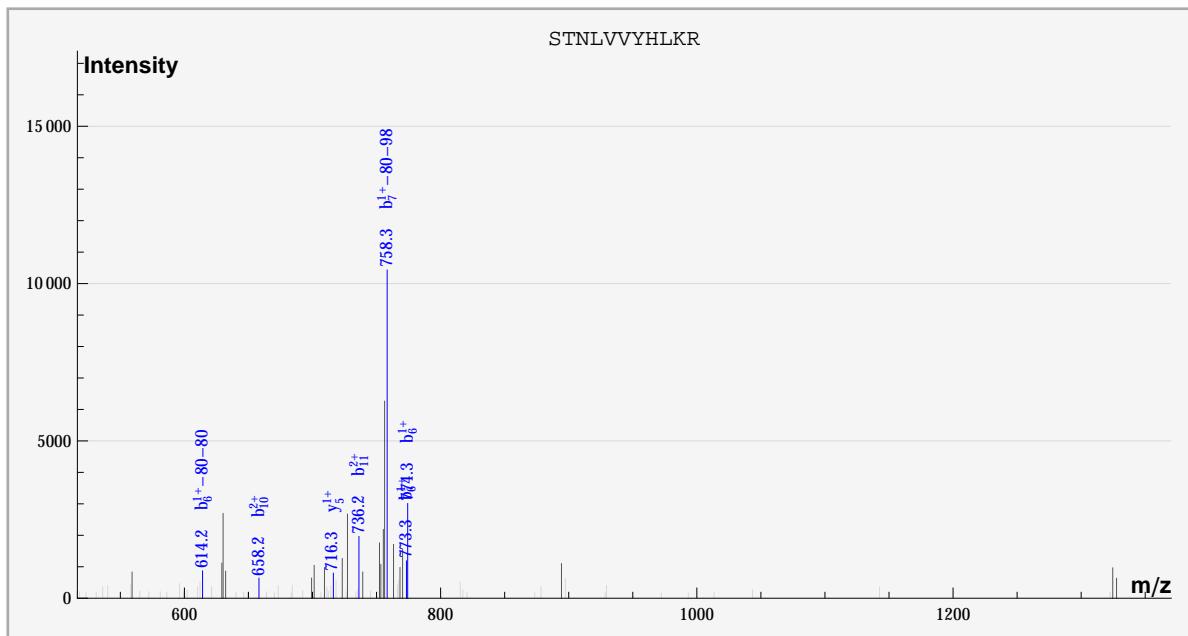
	♯	b	b*	♯	y	y*	P	P*
S	1							
T	2			10				
N	3			9				
L	4			8				
V	5			7				
V	6	✓	✓	6				
Y	7		✓	5	✓			
H	8			4				
L	9			3				
K	10	✓		2				
R	11	✓		1				

S   T   N   L   V   V   Y   H   L   K   R

dbValid true YNTGINAISWAK PHOS(2) 2. 748. 1.31235 5.38211 100. ? 2964.
S_Acido_new%gi|68567962|gb|AAY80891.1| YNTGINAISWAK%:PHOS::::::::PHOS::::%sample_1%cmpd_1570
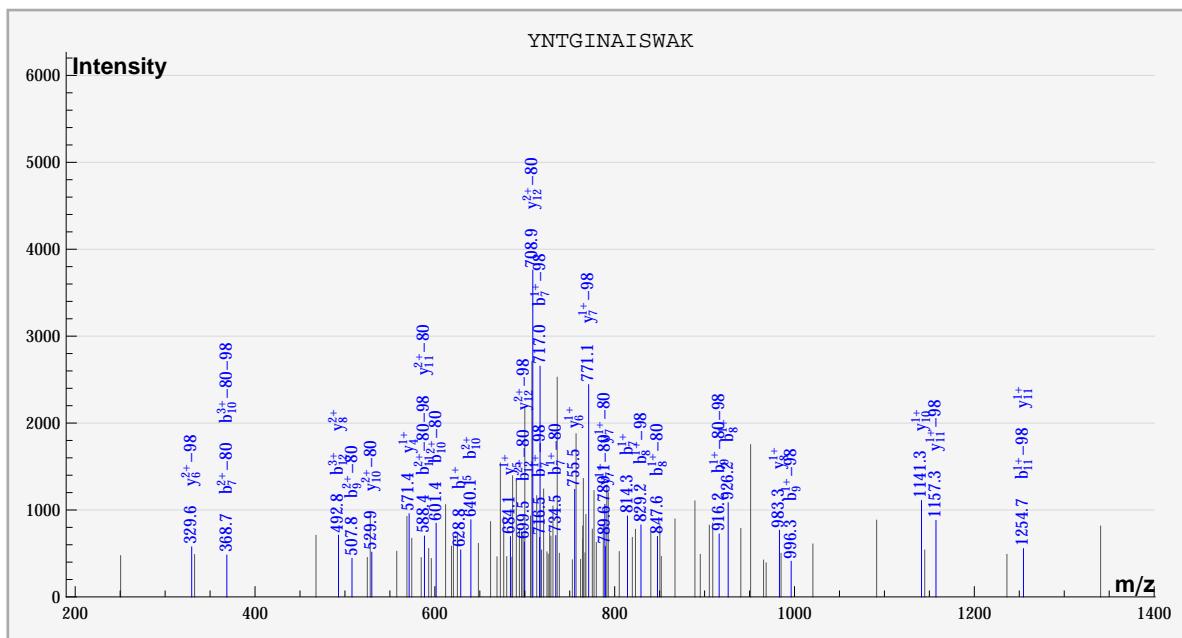
♯	b	b*	♯	y	y*	P	P*
Y	1							✓
N	2			11	✓	✓		
T	3			10	✓	✓		
G	4			9				
I	5	✓		8	✓			
N	6			7		✓		
A	7	✓	✓	6	✓	✓		
I	8	✓	✓	5	✓			
S	9		✓	4	✓			
W	10	✓	✓	3				
A	11		✓	2				
K	12	✓	✓	1				

┌Y ┌N ┌T G ┌I ┌N ┌A ┌I ┌S W A K┐

dbValid true GIYVSK PHOS(1) 1. 748. −1.6516 5.07185 100. ? 3168.
S_Acido_new%gi|68567993|gb|AAY80922.1| GIYVSK%:::PHOS::::%sample_1%cmpd_1758
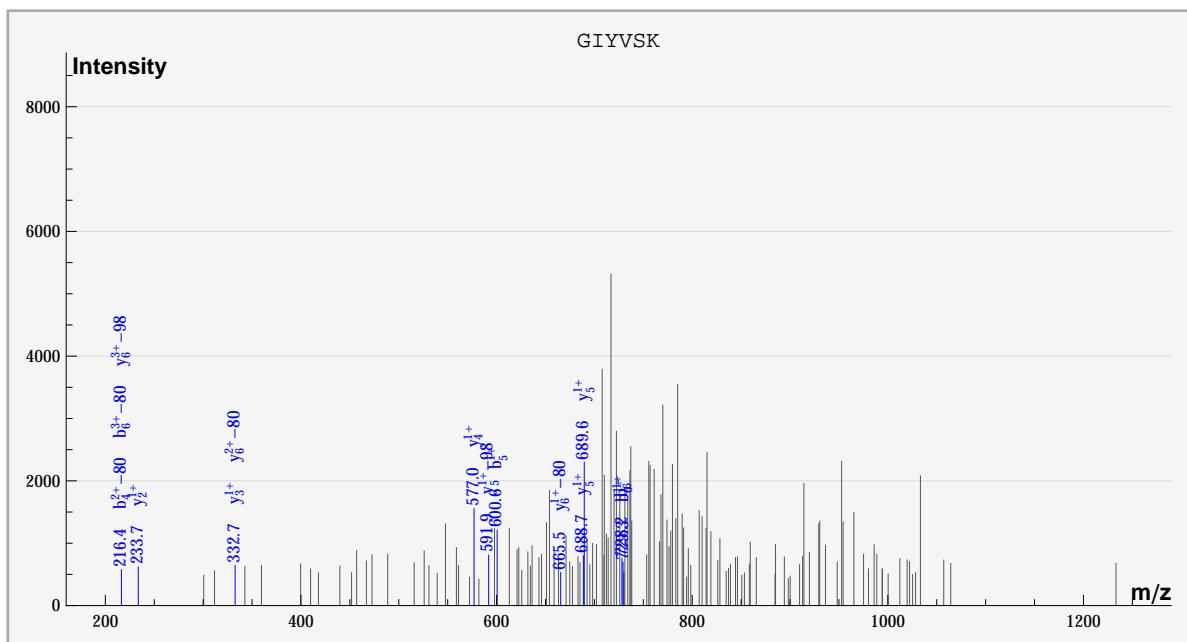
	♯	b	b*	♯	y	y*	P	P*
G	1							✓
I	2			5	✓	✓		
Y	3			4	✓			
V	4		✓	3	✓			
S	5	✓		2	✓			
K	6	✓	✓	1				
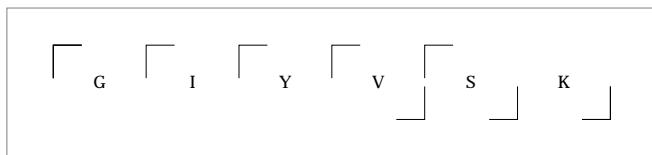
dbValid true DPSDPLVMSISPR PHOS(1) 2. 748. −0.661093 5.9591 100. ? 3234.
S_Acido_new%gi|68567726|gb|AAY80655.1| DPSDPLVMSISPR%:::PHOS::::::::::%sample_1%cmpd_1813

DPSDPLVMSISPR

	#	b	b*	#	y	y*	P	P*
D	1							
P	2			12	✓	✓		
S	3	✓		11				
D	4			10				
P	5	✓	✓	9	✓			
L	6	✓		8	✓			
V	7		✓	7	✓			
M	8		✓	6				
S	9		✓	5				
I	10			4	✓			
S	11			3				
P	12			2				
R	13	✓	✓	1				

D ⌐P S⌐ D ⌐P⌐L⌐V⌐M S⌐ I S P R⌐
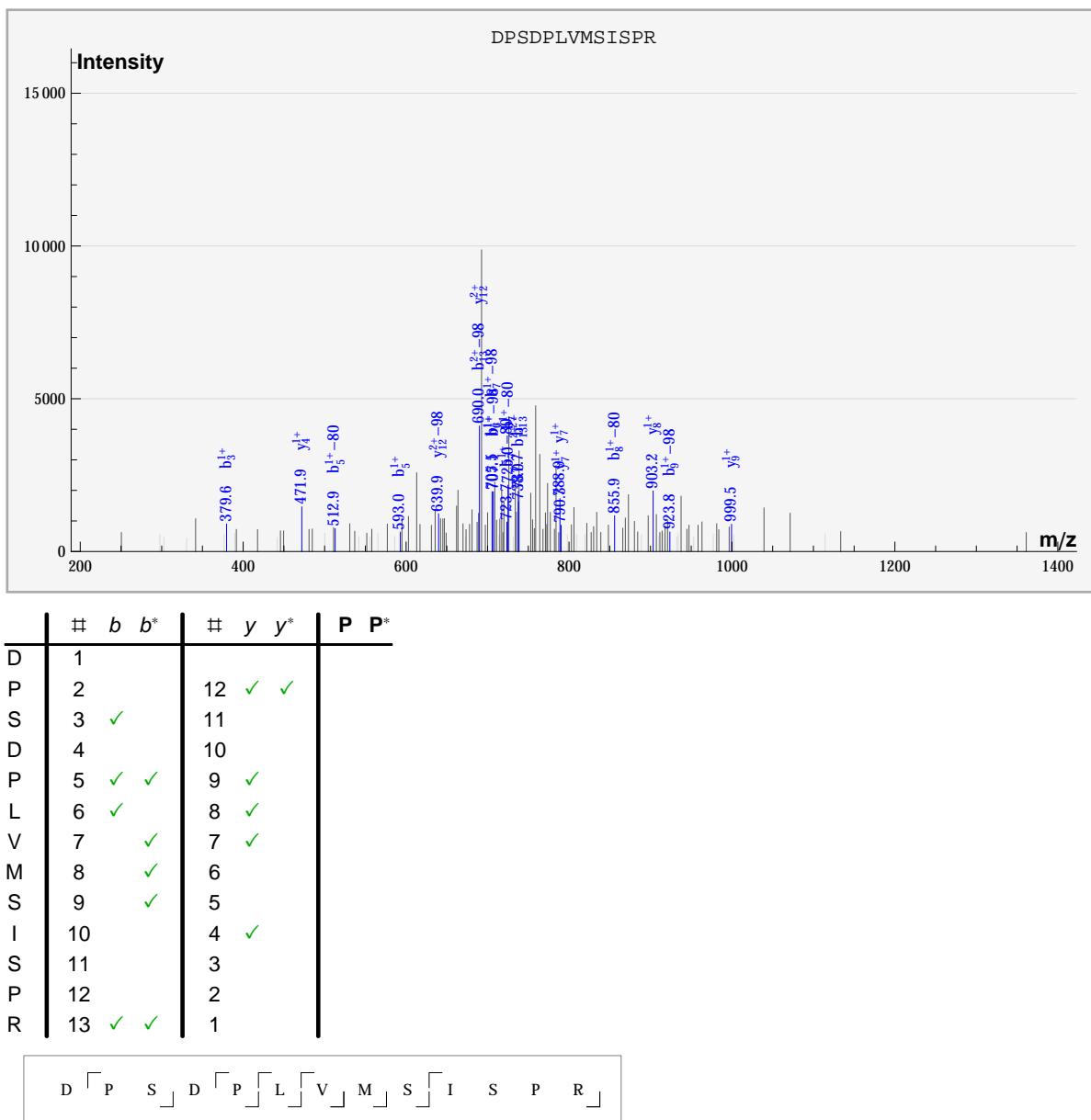
dbValid true YKGYATDTTR PHOS(4) 2. 748. 0.220807 4.999 100. ? 4278.
S_Acido_new%gi|68567443|gb|AAY80372.1| YKGYATDTTR%:PHOS:::PHOS::PHOS:::PHOS::%sample_1%cmpd_2765
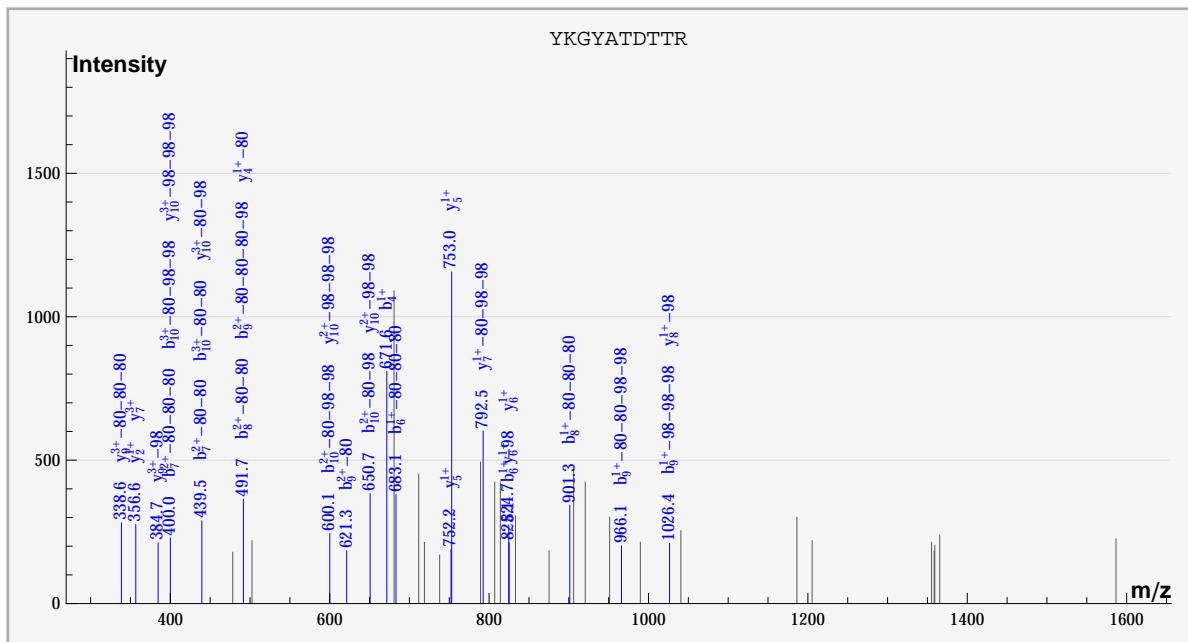
	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
K	2			9		✓		
G	3			8		✓		
Y	4	✓		7	✓	✓		
A	5			6	✓			
T	6		✓	5	✓			
D	7		✓	4		✓		
T	8		✓	3				
T	9		✓	2	✓			
R	10		✓	1				

dbValid true YYEMYNSRK PHOS(3) 2. 749. −1.76593 5.08307 100. ? 1680.
S_Acido_new%gi|68567117|gb|AAY80046.1| YYEMYNSRK%:PHOS:PHOS:::PHOS:::::%sample_3%cmpd_367
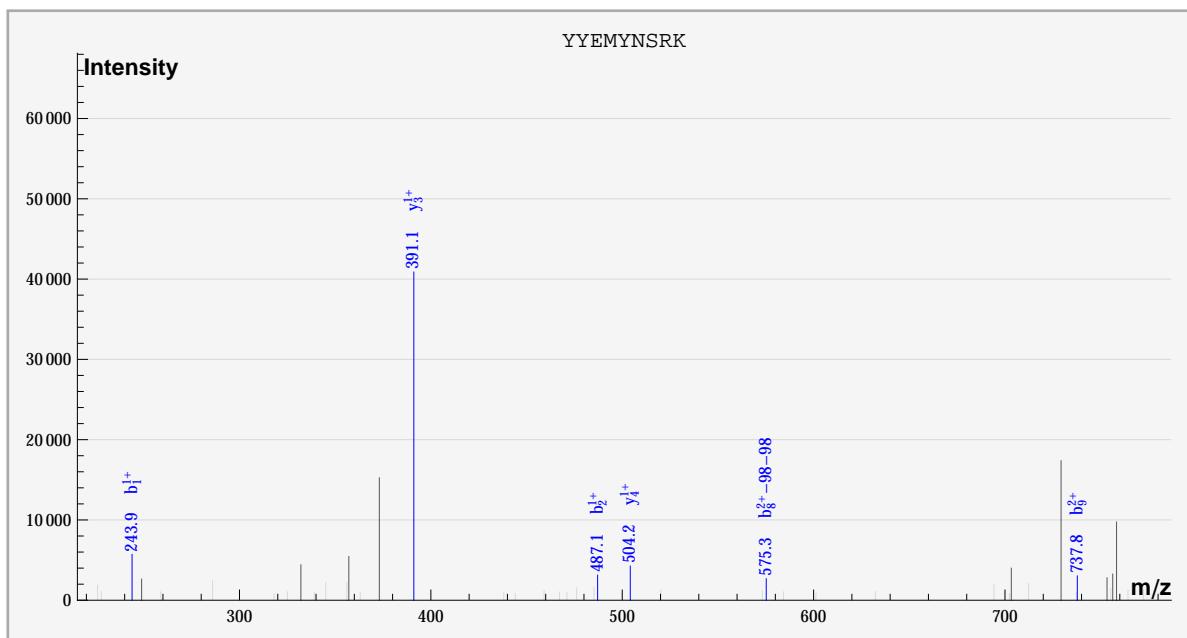
YYEMYNSRK

	#	b	b*	#	y	y*	P	P*
Y	1	✓						
Y	2	✓		8				
E	3			7				
M	4			6				
Y	5			5				
N	6			4	✓			
S	7			3	✓			
R	8		✓	2				
K	9	✓		1				

dbValid true CYVPLVIGLTER Cys_CAM(1),PHOS(1) 2. 749. 1.37001 5.04058 100. ? 2820.
  S_Acido_new%gi|68566534|gb|AAY79463.1| CYVPLVIGLTER%:Cys_CAM:PHOS::::::::::%sample_1%cmpd_1439
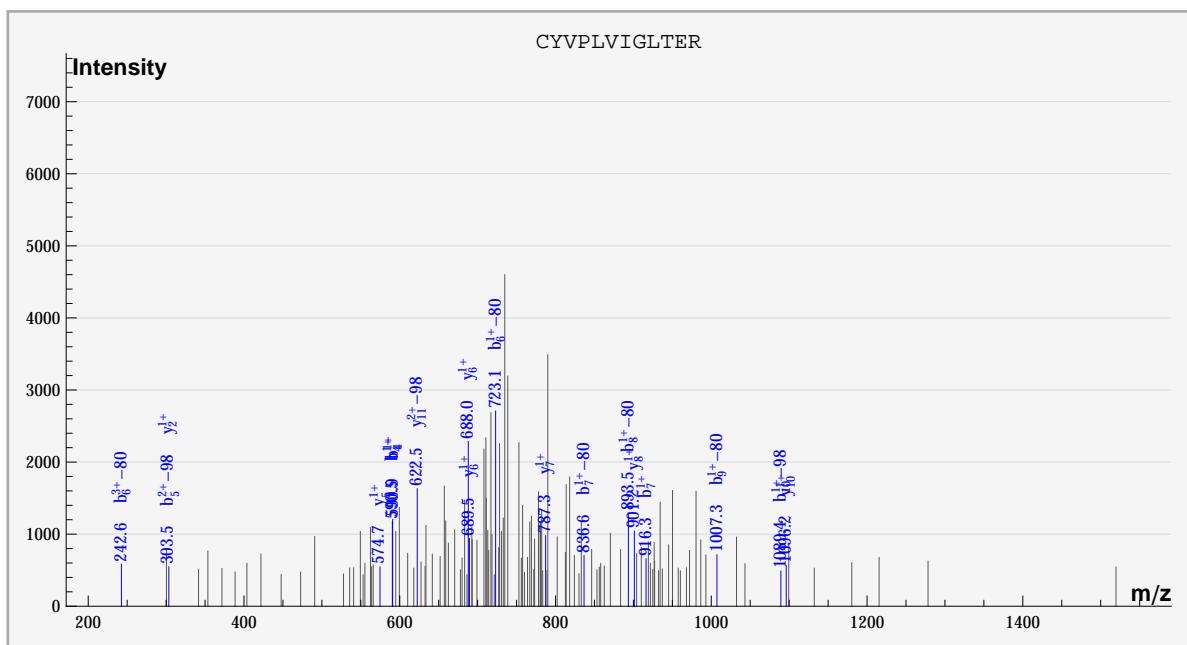
	♯	b	b*		♯	y	y*	**P**	**P***
C	1								
Y	2				11		✓		
V	3				10	✓			
P	4	✓			9				
L	5		✓		8	✓			
V	6		✓		7	✓			
I	7	✓	✓		6	✓			
G	8		✓		5	✓			
L	9		✓		4				
T	10		✓		3				
E	11				2	✓			
R	12				1				

C Y V P L V I G L T E R

dbValid true RRMGTVDYFIR PHOS(1) 2. 749. −1.64223 5.33633 100. ? 3684.
S_Acido_new%gi|68566856|gb|AAY79785.1| RRMGTVDYFIR%:::::PHOS:::::::%sample_1%cmpd_2225

RRMGTVDYFIR
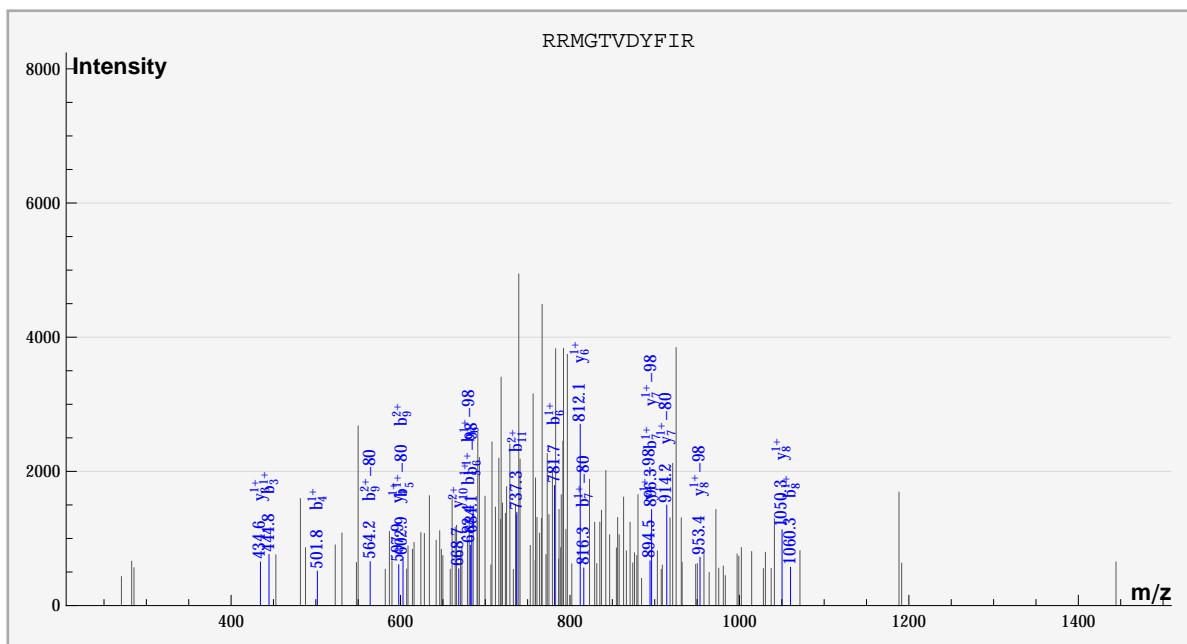
	#	*b*	*b**		#	*y*	*y**		**P**	**P***
R	1									
R	2				10	✓				
M	3	✓			9					
G	4	✓			8	✓	✓			
T	5	✓	✓		7		✓			
V	6	✓	✓		6	✓				
D	7	✓	✓		5					
Y	8	✓			4	✓				
F	9	✓	✓		3	✓				
I	10				2					
R	11	✓			1					

R ⌐ R M ⌐ G ⌐ T ⌐ V ⌐ D ⌐ Y ⌐ F ⌐ I R ⌐

dbValid true VYDELNVTTKR PHOS(2) 2. 749. 0.322917 5.05559 100. ? 3840.
S_Acido_new%gi|68567337|gb|AAY80266.1| VYDELNVTTKR%::PHOS:::::::PHOS:::%sample_1%cmpd_2369
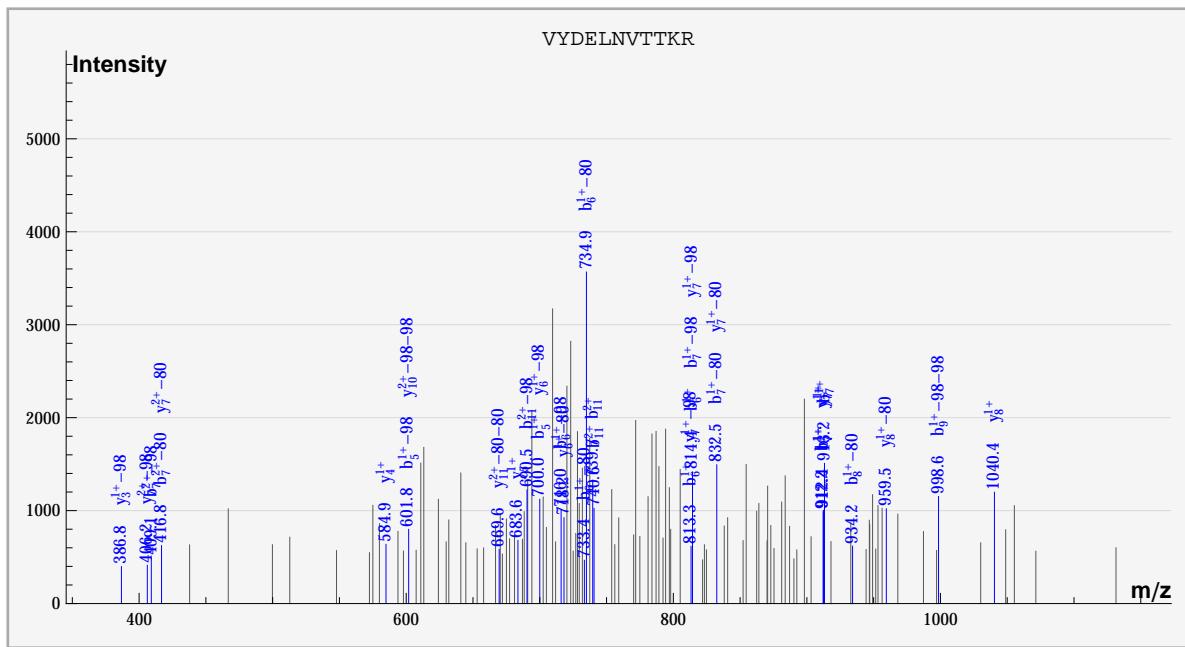
	#	b	b*	#	y	y*	P	P*
V	1							✓
Y	2			10		✓		
D	3			9				
E	4			8	✓	✓		
L	5	✓	✓	7	✓	✓		
N	6	✓	✓	6		✓		
V	7	✓	✓	5	✓			
T	8		✓	4	✓			
T	9		✓	3		✓		
K	10			2				
R	11	✓	✓	1				

dbValid true SRYSMIGWGRK PHOS(2) 2. 750. 0.814542 5.04003 100. ? 3258.
S_Acido_new%gi|68567826|gb|AAY80755.1| SRYSMIGWGRK%:PHOS::PHOS:::::::::%sample_0%cmpd_1660

SRYSMIGWGRK
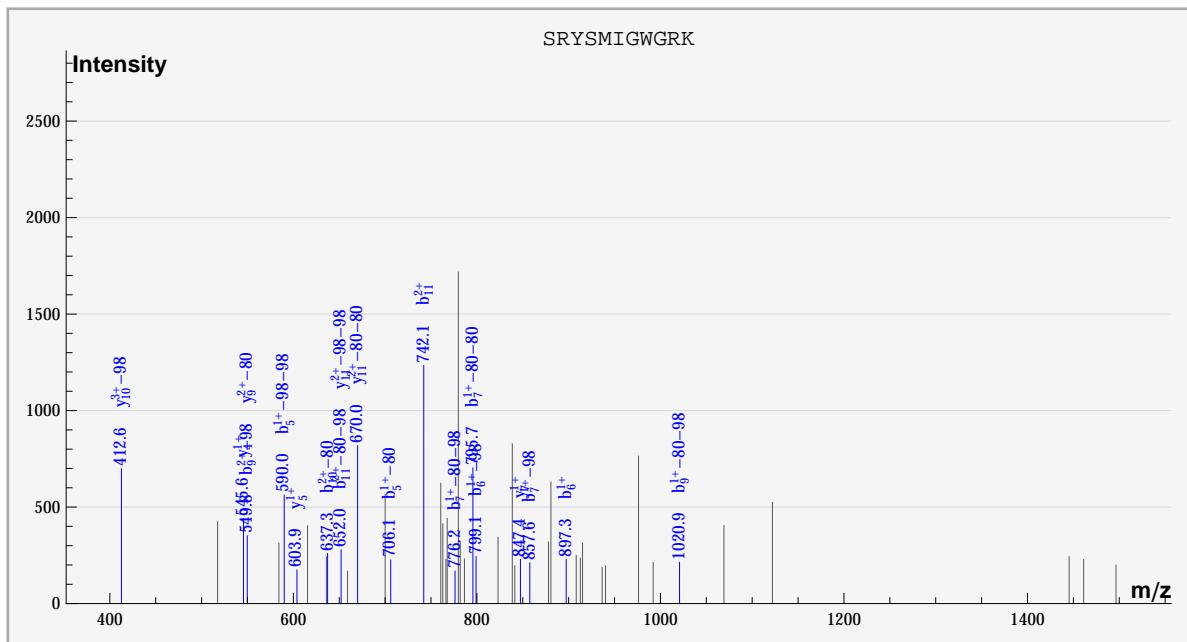
	#	b	b*	#	y	y*	P	P*
S	1							✓
R	2			10		✓		
Y	3			9		✓		
S	4			8				
M	5		✓	7	✓			
I	6	✓	✓	6				
G	7		✓	5		✓		
W	8			4		✓		
G	9		✓	3				
R	10		✓	2				
K	11	✓	✓	1				

dbValid true KLMDIGLITREK PHOS(1) 2. 750. −1.10107 5.10259 100. ? 3468.
S_Acido_new%gi|68567659|gb|AAY80588.1| KLMDIGLITREK%::::::::::PHOS::::%sample_0%cmpd_1831

KLMDIGLITREK
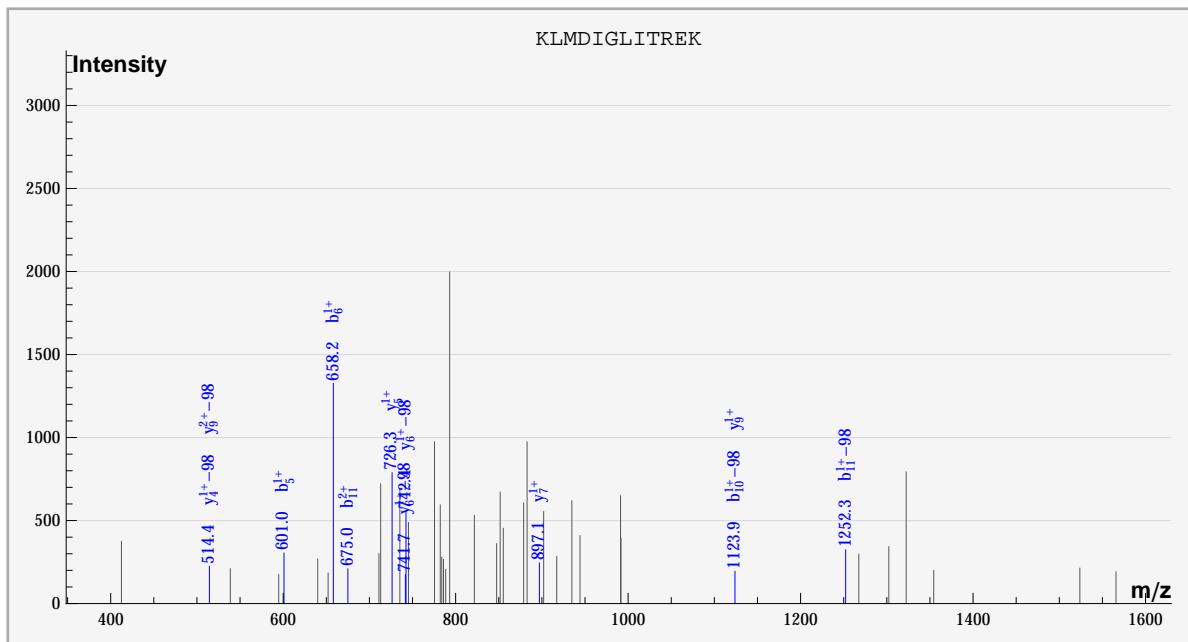
♯	b	b*	♯	y	y*	P	P*
K	1						
L	2		11				
M	3		10				
D	4		9	✓	✓		
I	5	✓	8				
G	6	✓	7	✓			
L	7		6		✓		
I	8		5	✓			
T	9		4		✓		
R	10	✓	3				
E	11	✓ ✓	2				
K	12		1				

K   L   M ⌐D   I ⌐G ⌐L ⌐I ⌐T   R   E   K

dbValid true DYLQLGIYNLK PHOS(2) 2. 751. −0.667248 5.11316 100. ? 3144.
S_Acido_new%gi|68568544|gb|AAY81473.1| DYLQLGIYNLK%::PHOS::::::PHOS::::%sample_0%cmpd_1643
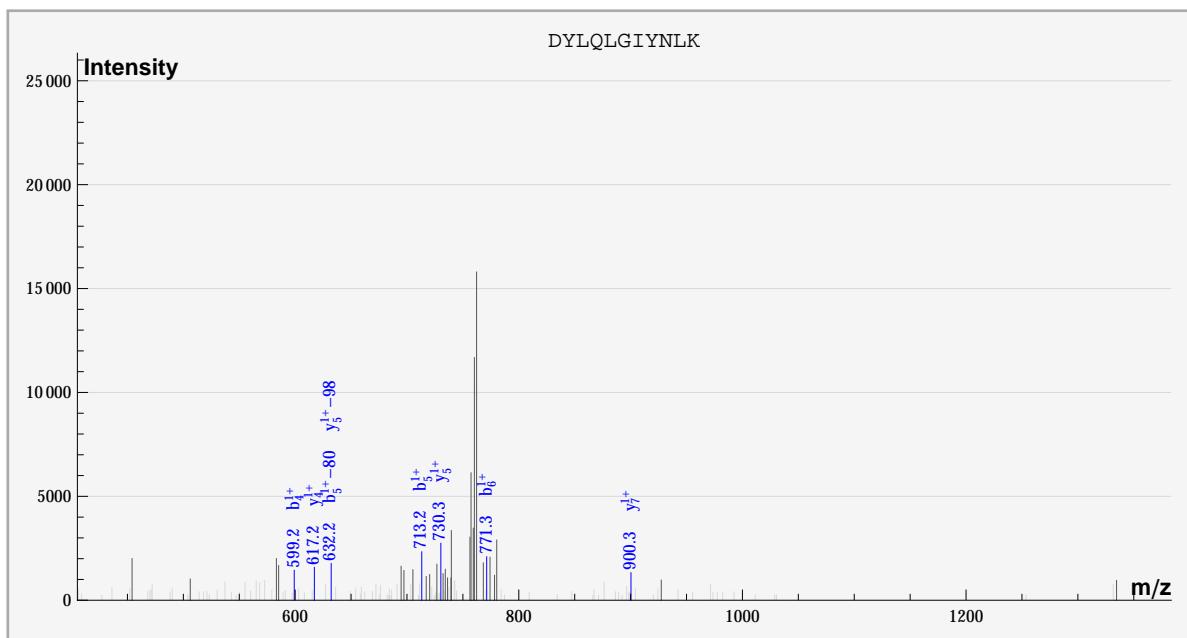
	#	b	b*	#	y	y*	P	P*
D	1							
Y	2			10				
L	3			9				
Q	4	✓		8				
L	5	✓	✓	7	✓			
G	6	✓		6				
I	7			5	✓	✓		
Y	8			4	✓			
N	9			3				
L	10			2				
K	11			1				

D   Y   L   Q   L   G   I   Y   N   L   K

dbValid true KSTGIVVSWDKK PHOS(2) 2. 753. 1.35147 5.09885 100. ? 2652.
  S_Acido_new%gi|68568101|gb|AAY81030.1| KSTGIVVSWDKK%::PHOS:PHOS:::::::::%sample_0%cmpd_1161

	♯	b	b*	♯	y	y*	P	P*
K	1							✓
S	2			11		✓		
T	3			10	✓			
G	4			9	✓			
I	5		✓	8	✓			
V	6	✓		7	✓			
V	7	✓	✓	6	✓			
S	8		✓	5	✓			
W	9		✓	4	✓			
D	10		✓	3				
K	11		✓	2				
K	12	✓	✓	1				

dbValid   true   YNVDYEYFTK   PHOS(2)   2.   753.   −1.73018   5.13516   100.   ?   3018.
S_Acido_new%gi|68567767|gb|AAY80696.1| YNVDYEYFTK%:PHOS:::::::PHOS::%sample_0%cmpd_1461

YNVDYEYFTK
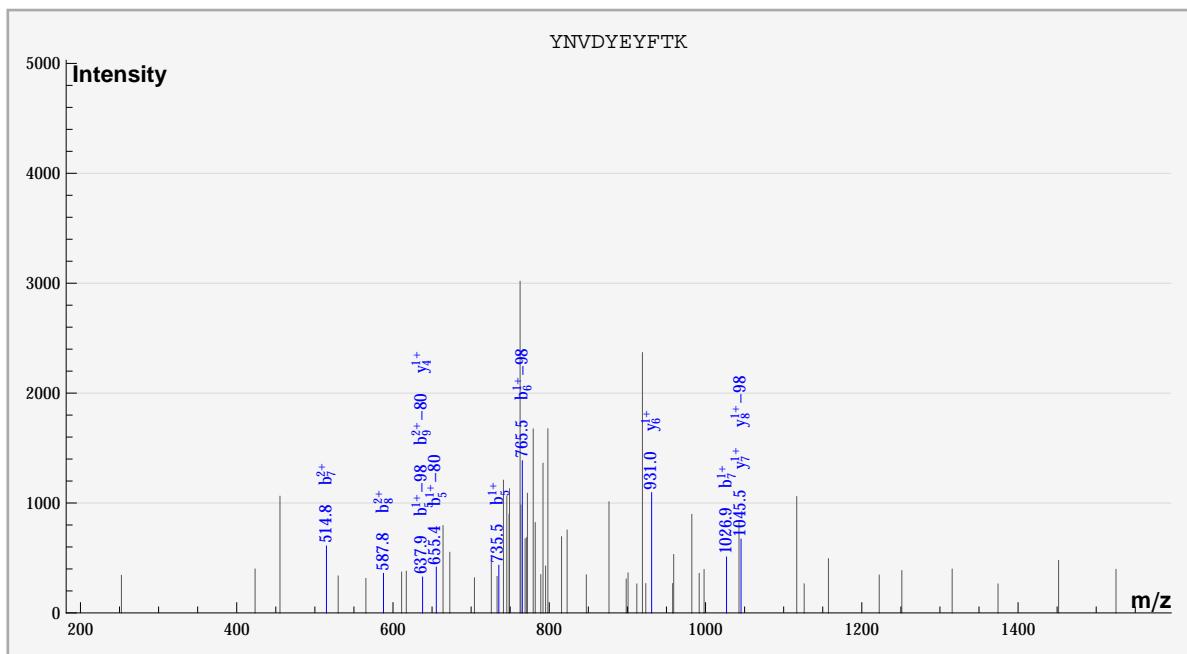
	#	b	b*	#	y	y*	P	P*
Y	1							
N	2			9				
V	3			8		✓		
D	4			7	✓			
Y	5	✓	✓	6	✓			
E	6		✓	5				
Y	7	✓		4	✓			
F	8	✓		3				
T	9		✓	2				
K	10			1				

Y   N   V   D   Y   E   Y   F   T   K

dbValid true ISLINI PHOS(1) 1. 754. −1.60465 6.0654 100. ? 2952.
   S_Acido_new%gi|68568430|gb|AAY81359.1| ISLINI%::PHOS:::::%sample_0%cmpd_1480
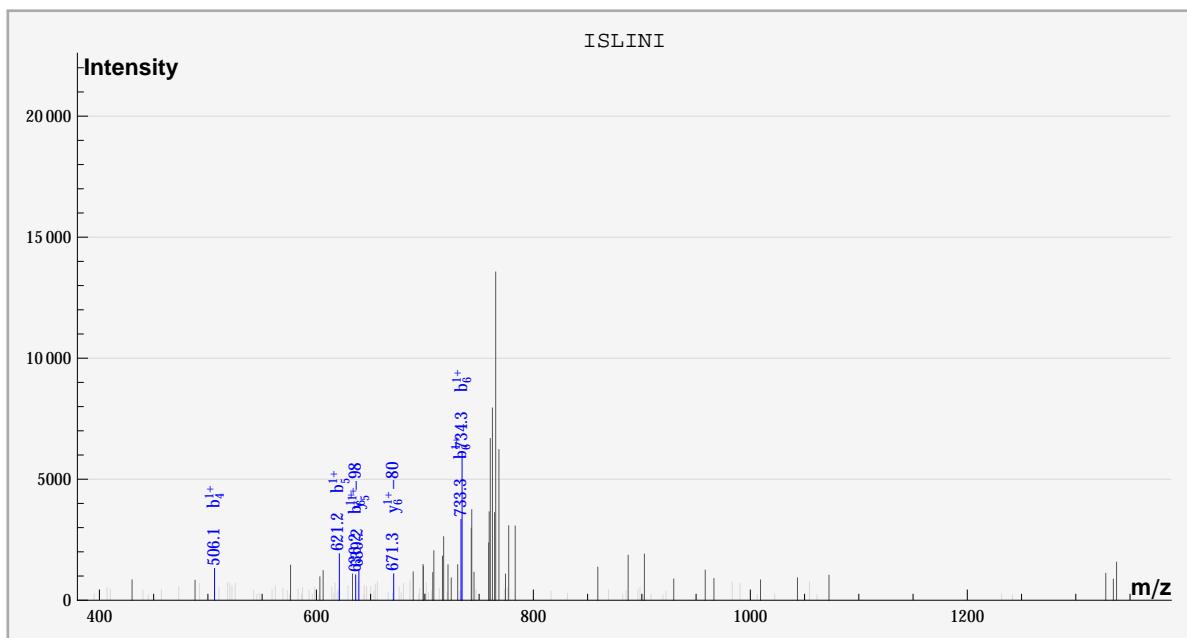
	#	b	b*	#	y	y*	P	P*
I	1							✓
S	2			5	✓			
L	3			4				
I	4	✓		3				
N	5	✓		2				
I	6	✓	✓	1				
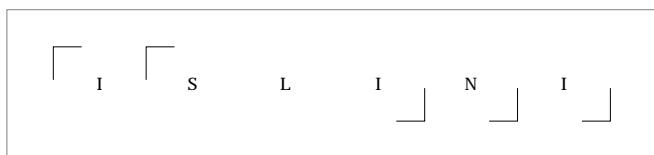
dbValid true NLSLAR PHOS(1) 1. 755. −1.63455 5.35691 100. ? 2526.
  S_Acido_new%gi|68566812|gb|AAY79741.1| NLSLAR%:::PHOS::::%sample_0%cmpd_1114
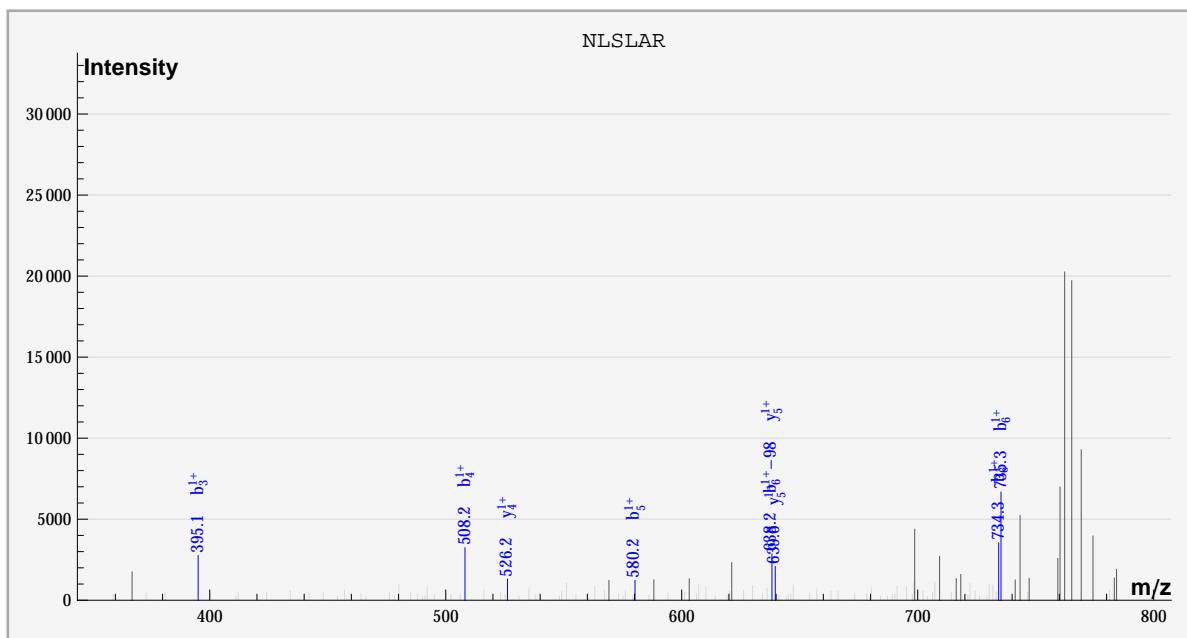
#	b	b*	#	y	y*	P	P*
N	1						
L	2		5	✓			
S	3	✓	4	✓			
L	4	✓	3				
A	5	✓	2				
R	6	✓	✓	1			
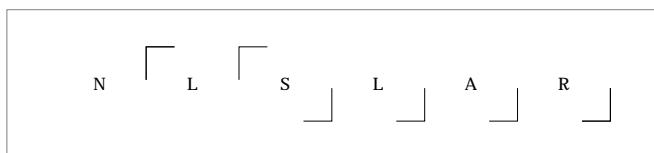
dbValid true FYVITISTSR PHOS(4) 2. 755. −1.24043 5.08474 100. ? 2718.
  S_Acido_new%gi|68566711|gb|AAY79640.1| FYVITISTSR%::PHOS:::PHOS:::PHOS:PHOS::%sample_0%cmpd_1277
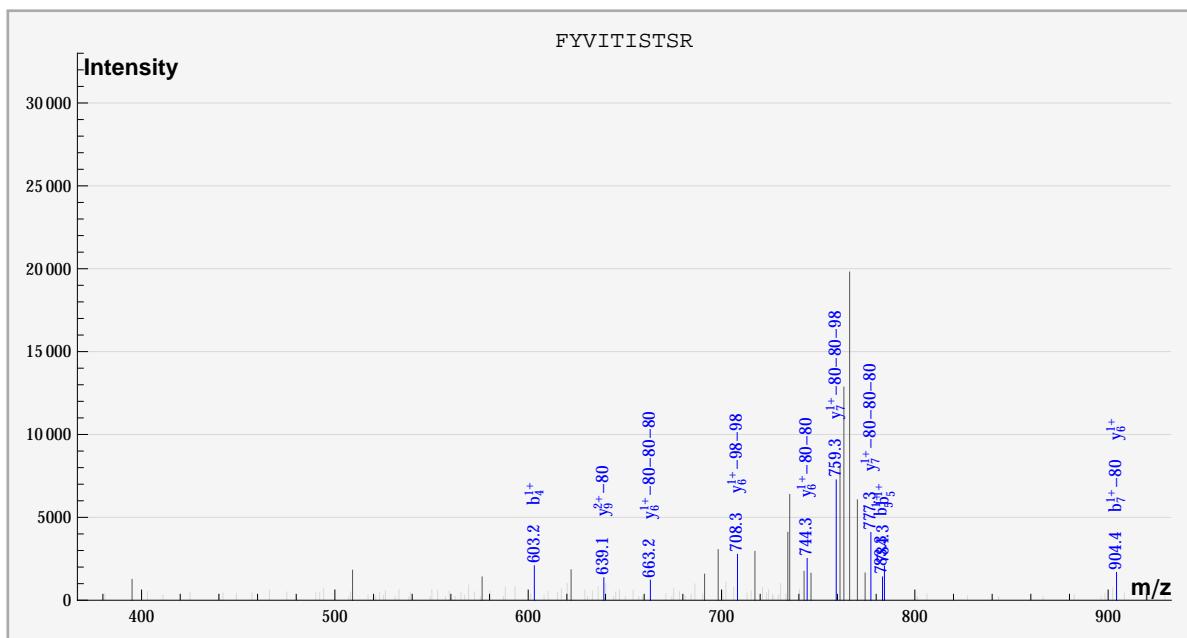
♯	b	b*	♯	y	y*	P	P*
F	1							
Y	2			9		✓		
V	3			8				
I	4	✓		7		✓		
T	5	✓		6	✓	✓		
I	6			5				
S	7		✓	4				
T	8			3				
S	9			2				
R	10			1				

F Y V I T I S T S R

dbValid true FTTAYISQKSK PHOS(3) 2. 756. 1.29243 5.15648 100. ? 1668.
S_Acido_new%gi|68566747|gb|AAY79676.1| FTTAYISQKSK%::PHOS:PHOS:::::::PHOS::%sample_0%cmpd_373
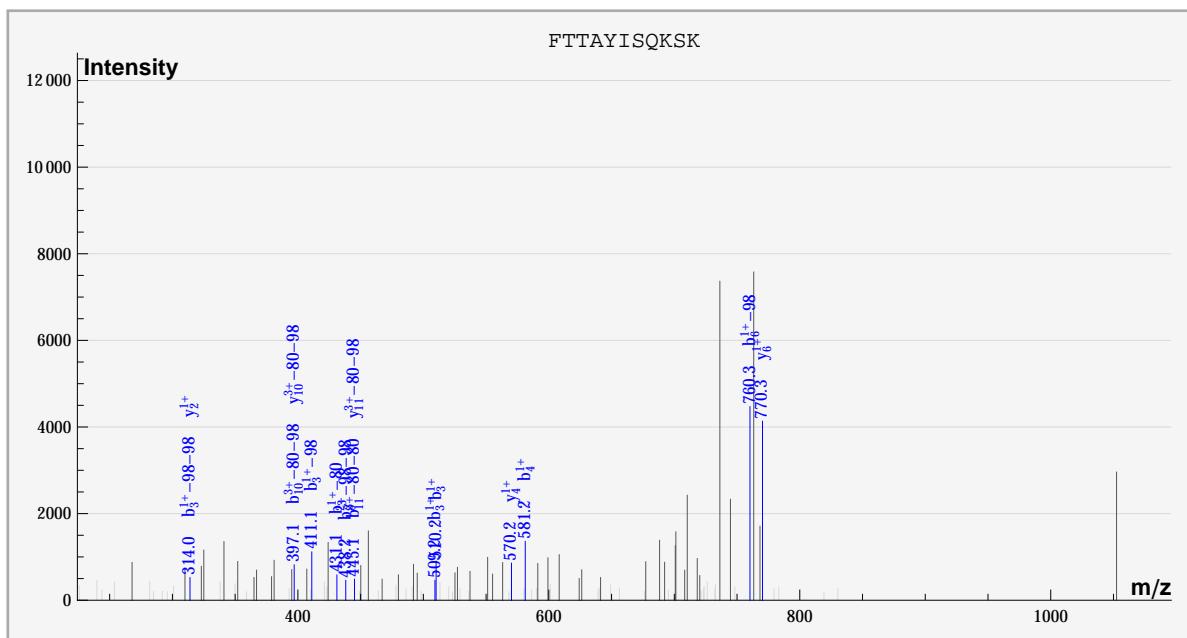
FTTAYISQKSK

	♯	b	b*	♯	y	y*	P	P*
F	1							✓
T	2			10		✓		
T	3	✓	✓	9				
A	4	✓		8				
Y	5			7				
I	6		✓	6		✓		
S	7			5				
Q	8		✓	4		✓		
K	9			3				
S	10		✓	2		✓		
K	11		✓	1				

F T T A Y I S Q K S K

dbValid true EYYGAVSGVSR PHOS(4) 2. 756. −1.7792 5.1146 100. ? 2400.
   S_Acido_new%gi|68568028|gb|AAY80957.1| EYYGAVSGVSR%::PHOS:PHOS::::PHOS:::PHOS::%sample_0%cmpd_1000
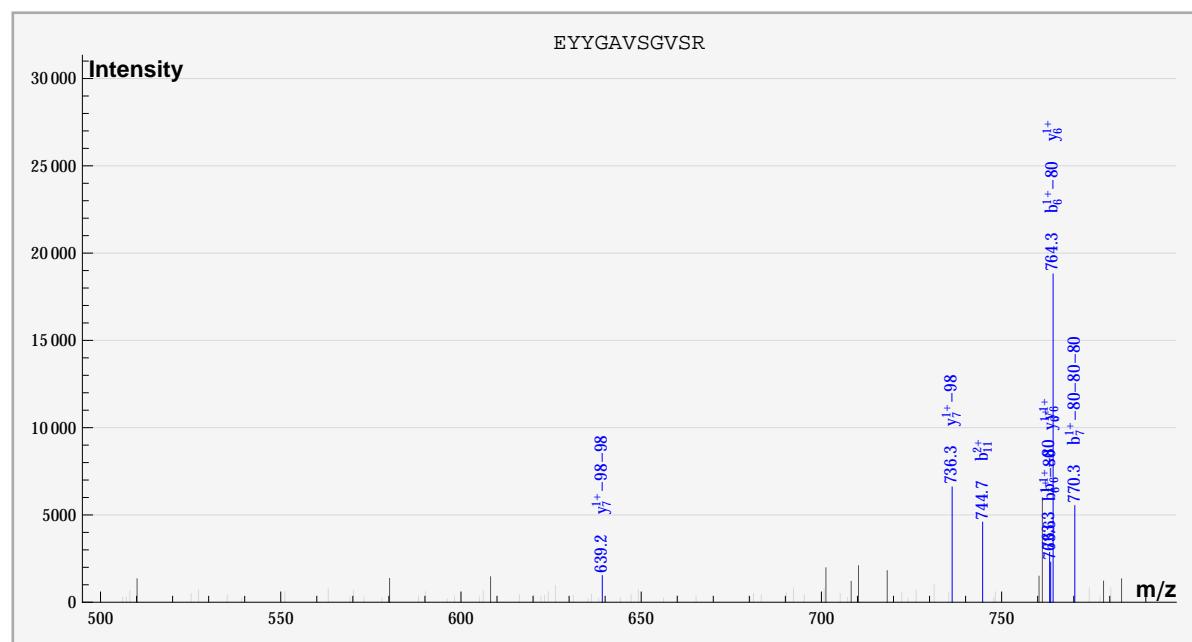
♯	b	b*	♯	y	y*	P	P*
E	1						
Y	2		10				
Y	3		9				
G	4		8				
A	5		7		✓		
V	6	✓	6		✓		
S	7	✓	5				
G	8		4				
V	9		3				
S	10		2				
R	11	✓	1				

E   Y   Y   G   A   V   S   G   V   S   R

dbValid true DGKTVR PHOS(1) 1. 756. −0.655285 5.20779 100. ? 2886.
  S_Acido_new%gi|68568162|gb|AAY81091.1| DGKTVR%::::PHOS:::%sample_0%cmpd_1354
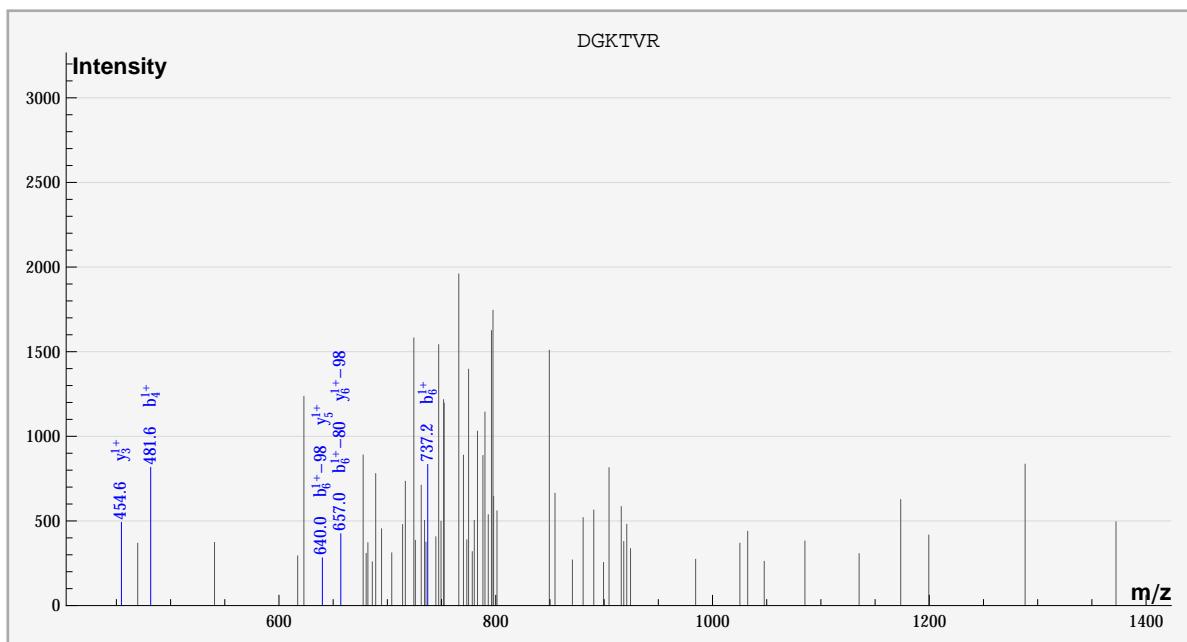
	♯	b	b*	♯	y	y*	P	P*
D	1							✓
G	2			5	✓			
K	3			4				
T	4	✓		3	✓			
V	5			2				
R	6	✓	✓	1				
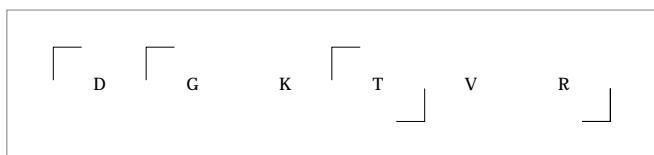
dbValid true EYIFYDSKYK PHOS(2) 2. 757.59 0.705837 5.09551 100. ? 2238.
S_Acido_new%gi|68567051|gb|AAY79980.1| EYIFYDSKYK%::PHOS:::::::PHOS::%sample_1%cmpd_894
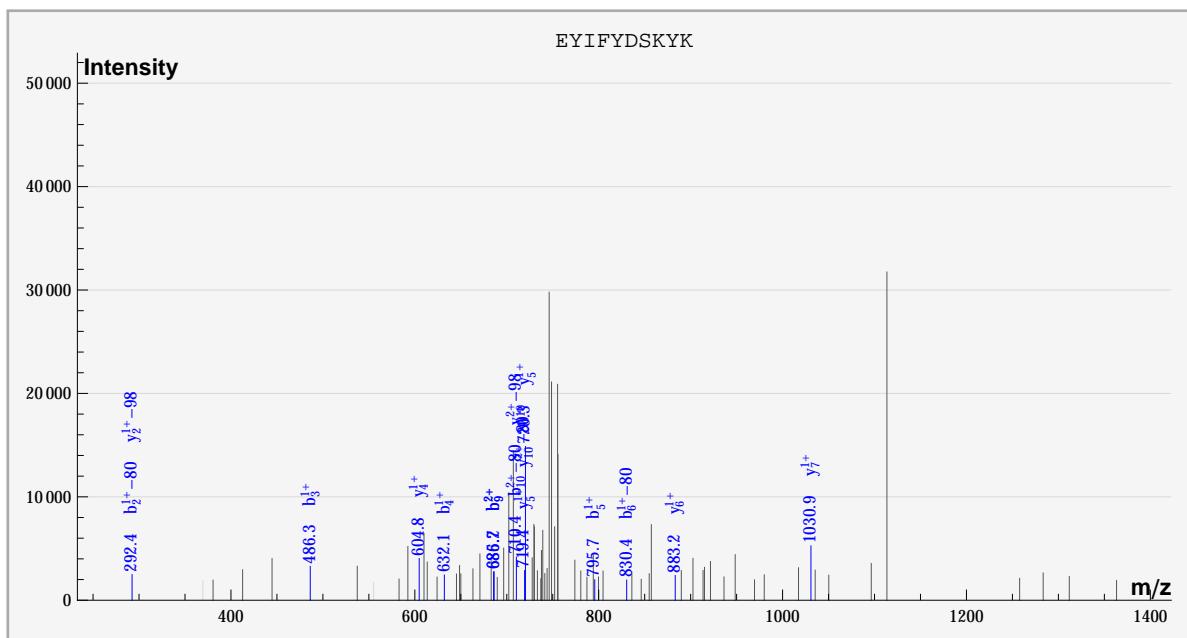
	♯	b	b*	♯	y	y*	P	P*
E	1			9				✓
Y	2		✓	9				
I	3	✓		8				
F	4	✓		7	✓			
Y	5	✓		6	✓			
D	6		✓	5	✓			
S	7			4	✓			
K	8			3				
Y	9	✓		2		✓		
K	10		✓	1				
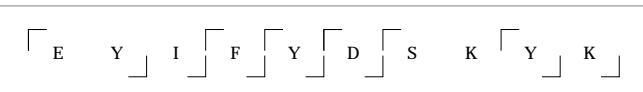
dbValid true VESLDN PHOS(1) 1. 758. −1.71889 5.42105 100. ? 3216.
S_Acido_new%gi|68568023|gb|AAY80952.1| VESLDN%:::PHOS::::%sample_0%cmpd_1711
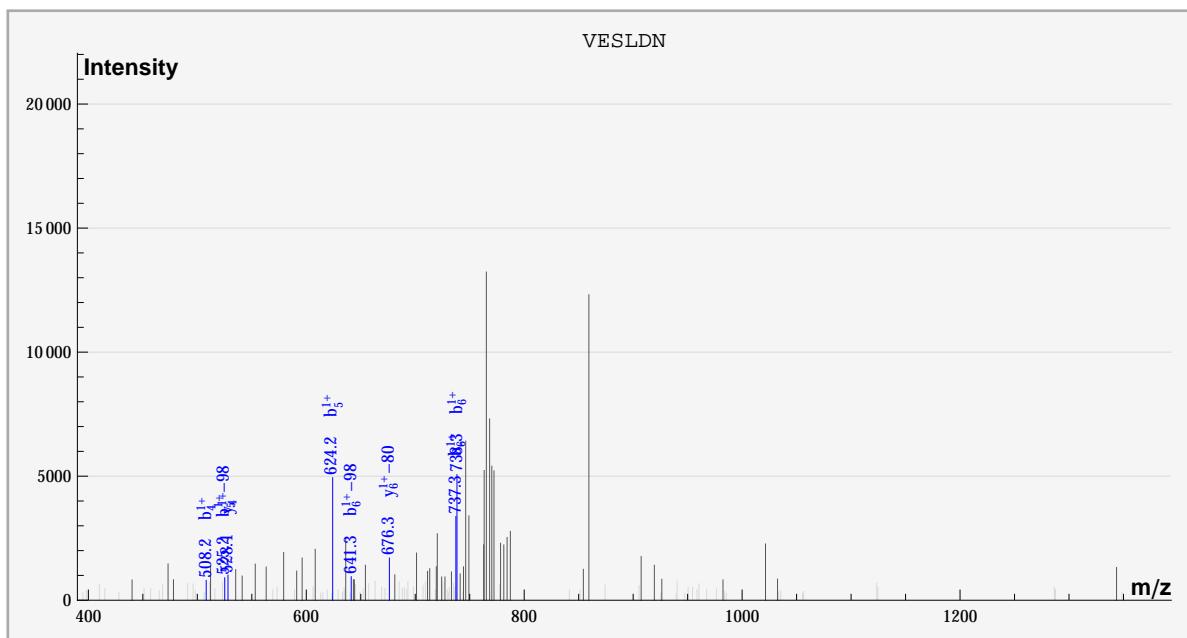
	#	b	b*	#	y	y*	P	P*
V	1							✓
E	2			5				
S	3			4	✓			
L	4	✓		3				
D	5	✓	✓	2				
N	6	✓	✓	1				
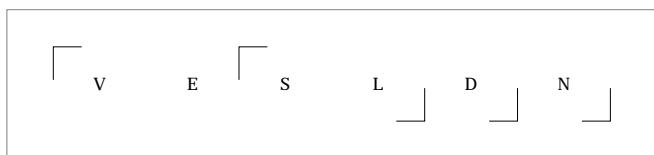
dbValid true TLSSNKELTAK PHOS(4) 2. 758. −1.73479 5.0777 100. ? 3738.
  S_Acido_new%gi|68566640|gb|AAY79569.1| TLSSNKELTAK%:PHOS::PHOS:PHOS:::::PHOS:::%sample_0%cmpd_2157
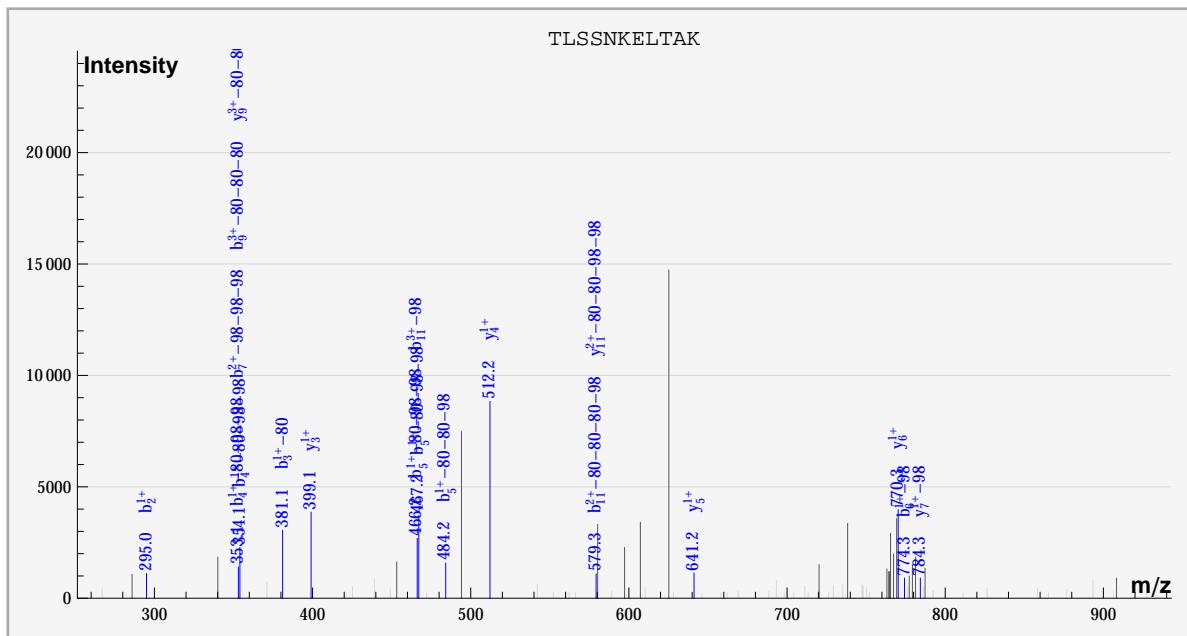
	♯	b	b*	♯	y	y*	P	P*
T	1							✓
L	2	✓		10		✓		
S	3		✓	9		✓		
S	4		✓	8				
N	5		✓	7		✓		
K	6		✓	6	✓			
E	7		✓	5	✓			
L	8			4	✓			
T	9		✓	3	✓			
A	10			2				
K	11		✓	1				
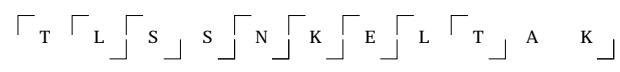
dbValid true IREIIKHPSQSK PHOS(1) 2. 759. −0.594228 5.04102 100. ? 1812.
  S_Acido_new%gi|68566943|gb|AAY79872.1| IREIIKHPSQSK%::::::::::PHOS::%sample_0%cmpd_499
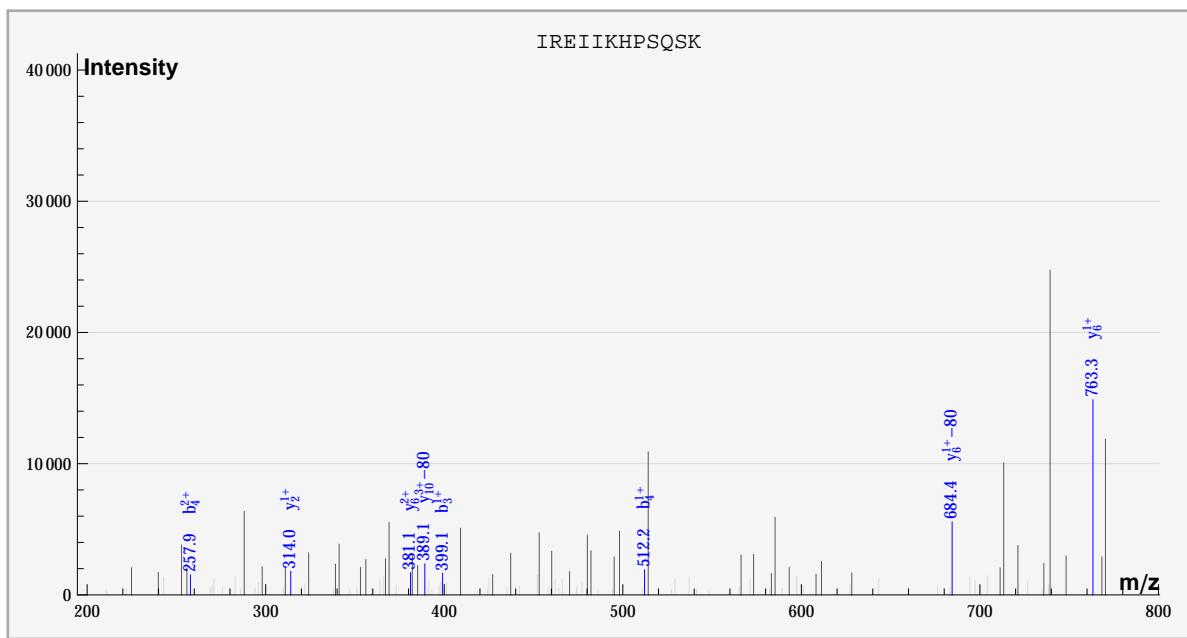
♯	b	b*	♯	y	y*	P	P*
I	1		11				
R	2		11				
E	3	✓	10		✓		
I	4	✓	9				
I	5		8				
K	6		7				
H	7		6	✓	✓		
P	8		5				
S	9		4				
Q	10		3				
S	11		2	✓			
K	12		1				

I   R   ⌈E⌋   ⌈I⌋   I   K   ⌈H   P   S   Q   ⌈S   K

dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.13991 100. ? 3438.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1897

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
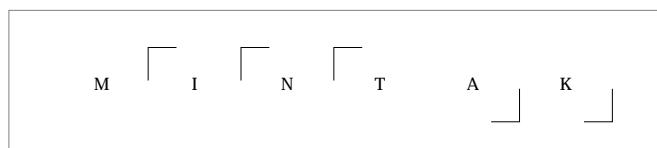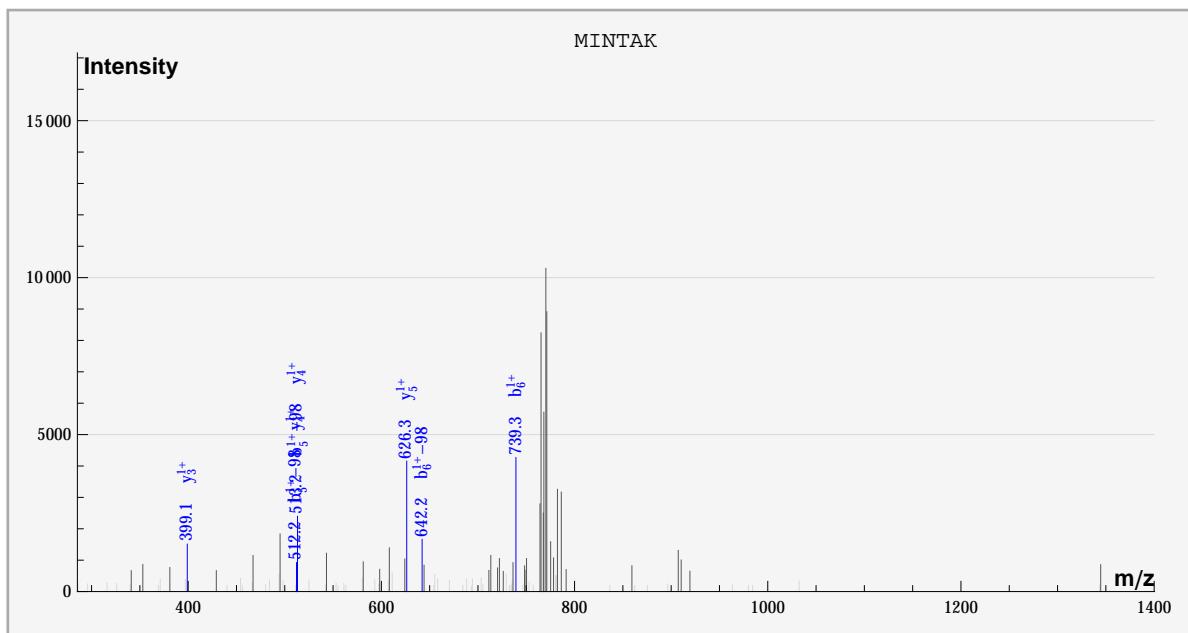
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.11474 100. ? 3450.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1908
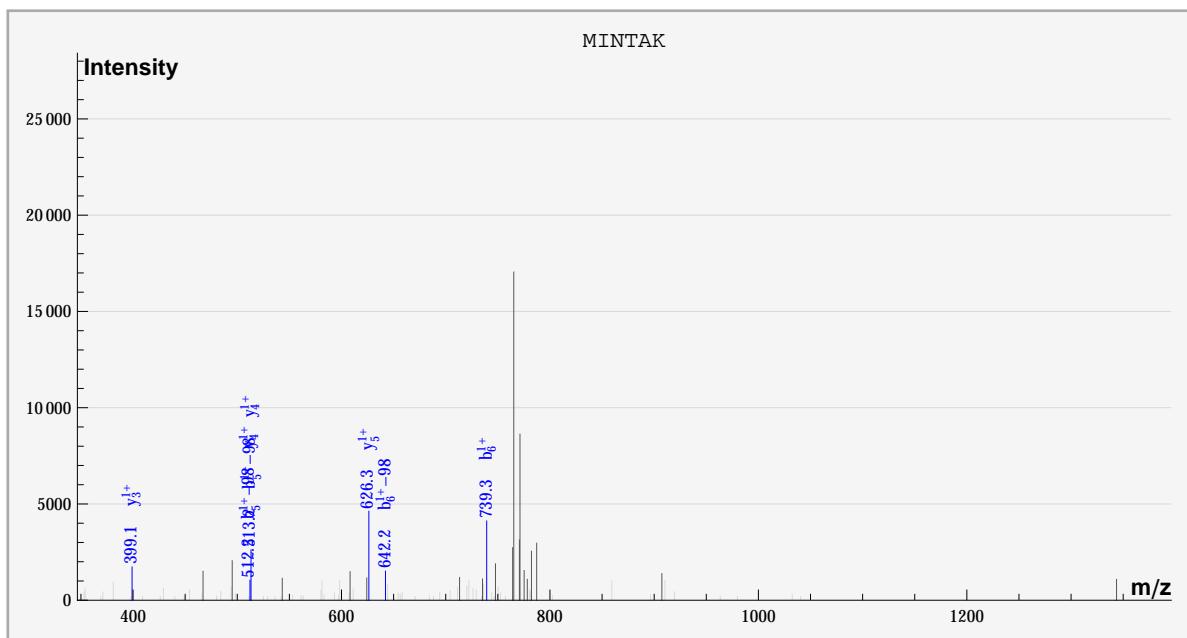
#	b	b*	#	y	y*	P	P*
M	1						
I	2			5	✓		
N	3			4	✓		
T	4			3	✓		
A	5		✓	2			
K	6	✓	✓	1			
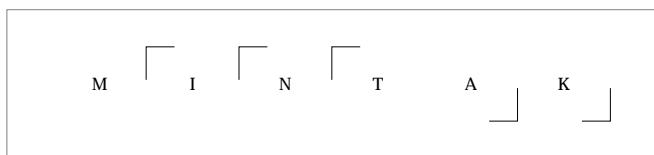
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.53129 100. ? 3462.
 S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1918
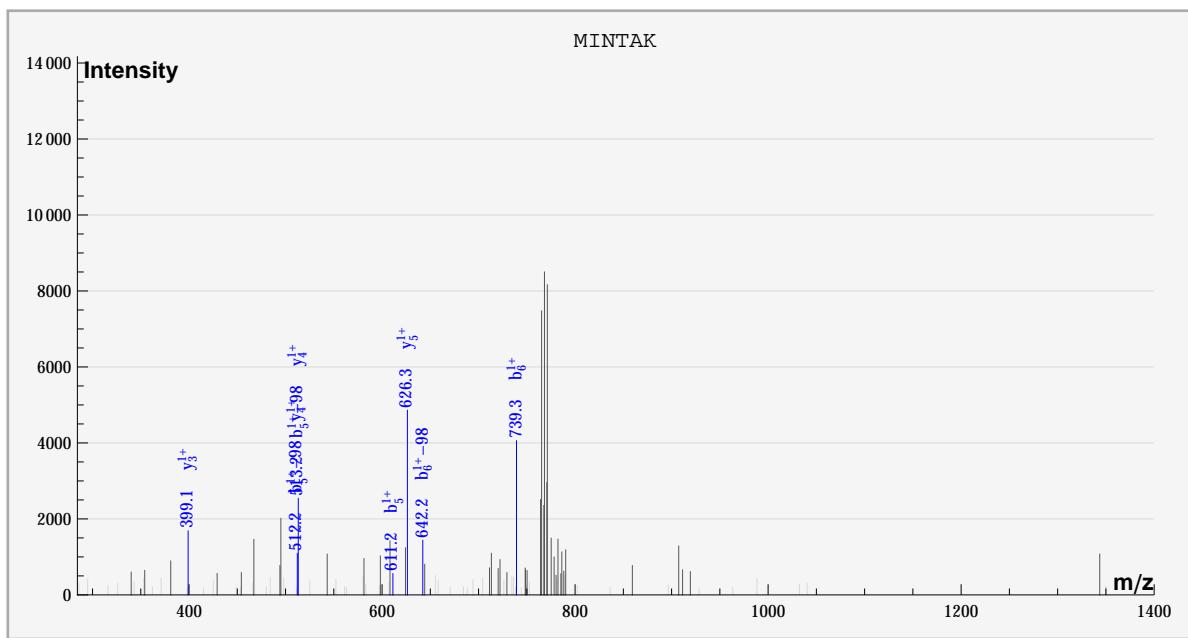
|	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5	✓	✓	2				
K	6	✓	✓	1				
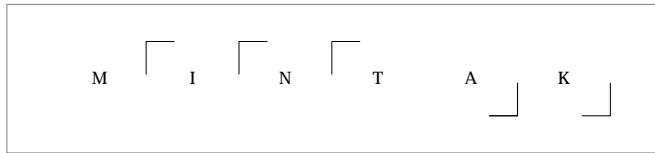
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.89206 100. ? 3474.
    S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1929
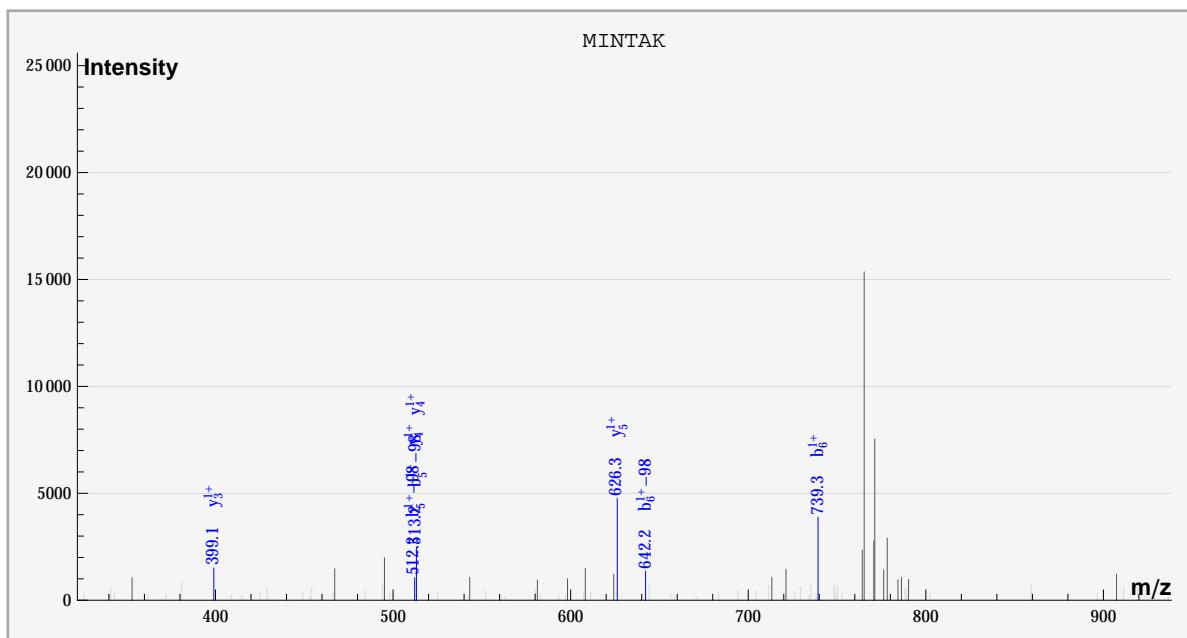
	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
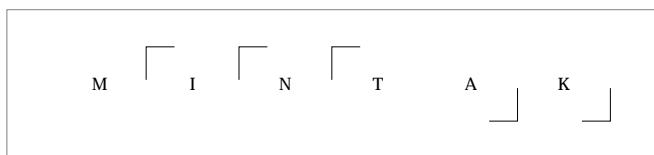
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.49292 100. ? 3486.
   S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1939
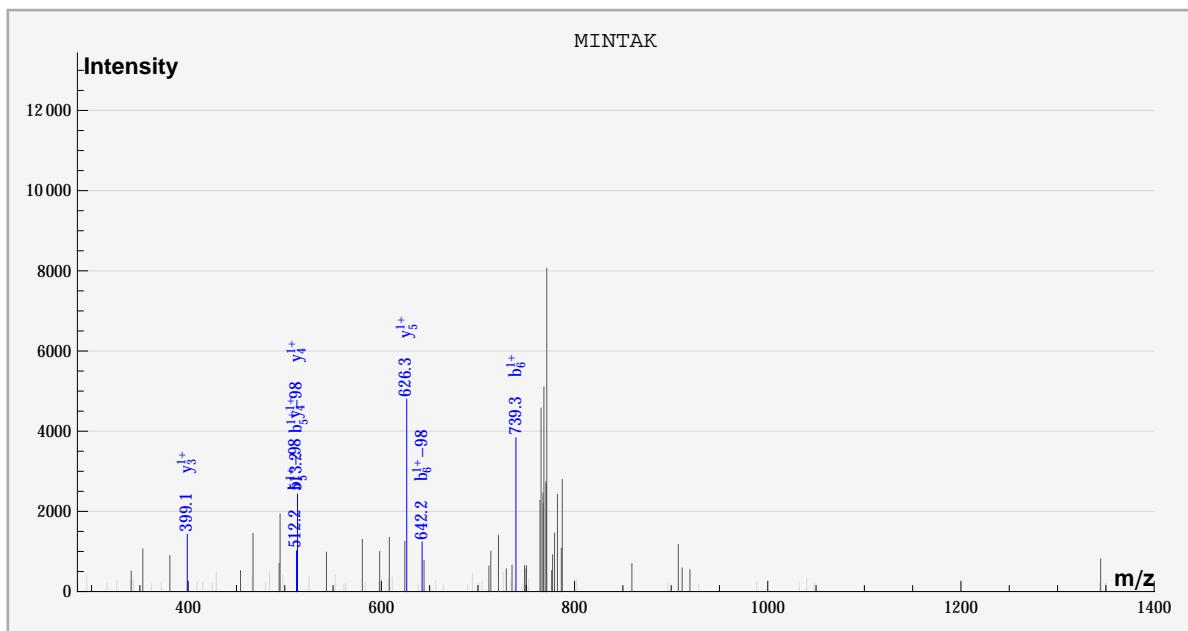
|	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
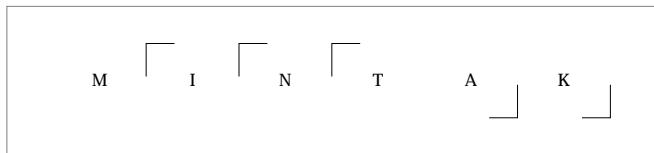
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.7052 100. ? 3498.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1951
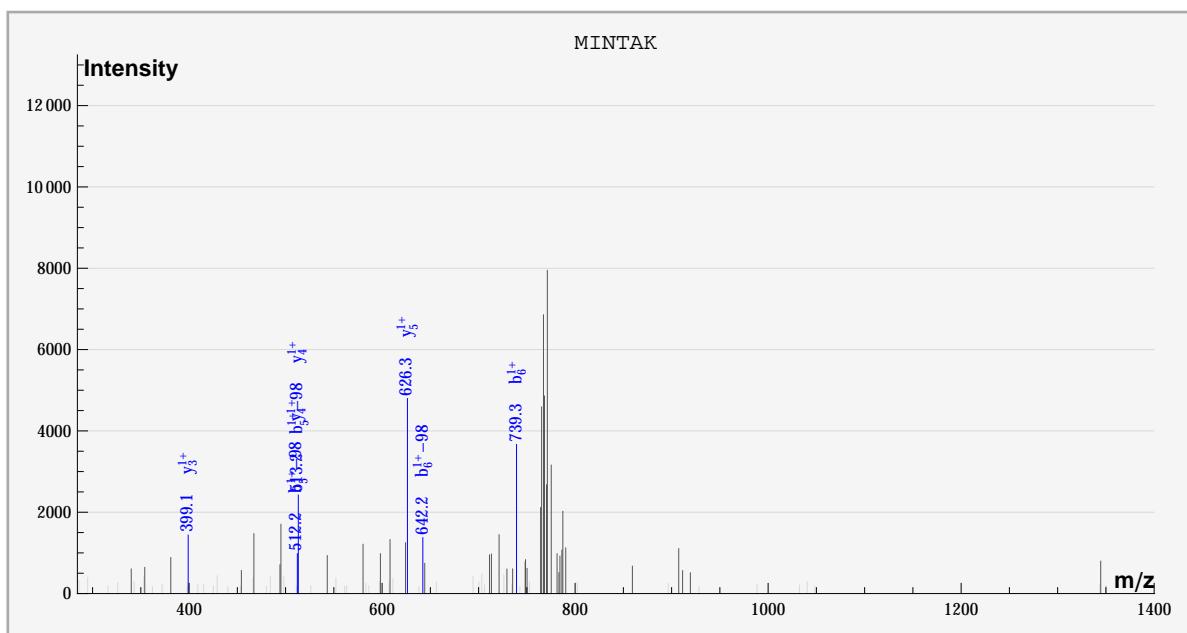
	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
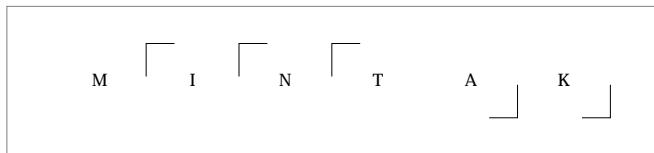
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.43272 100. ? 3510.
   S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1961
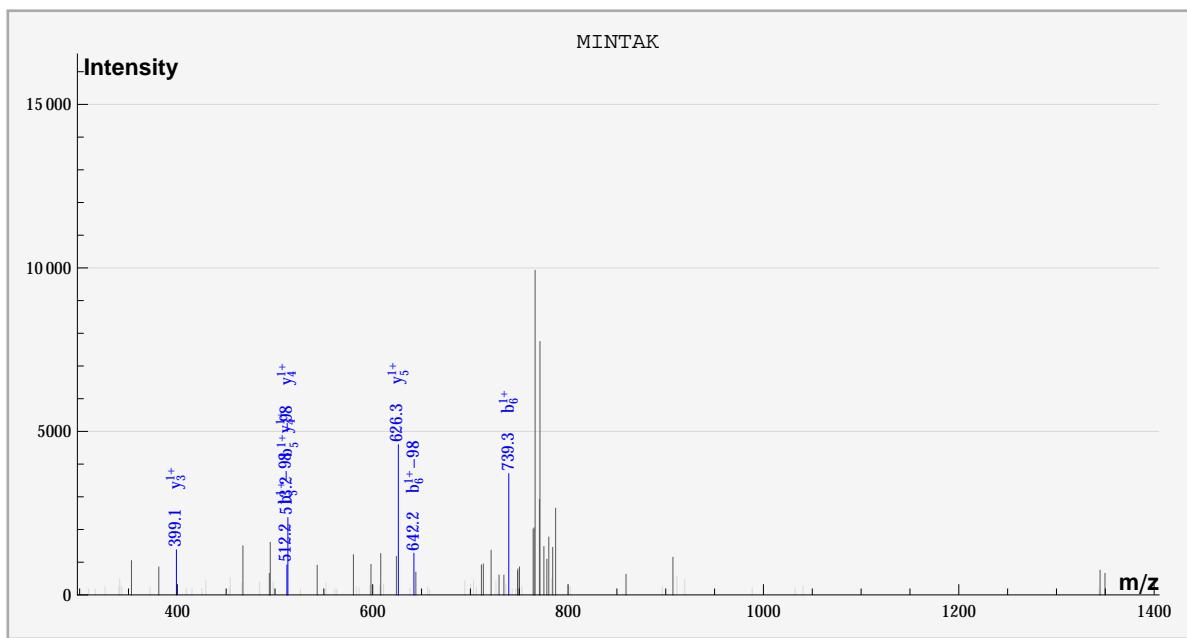
	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
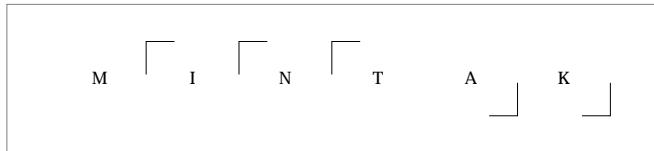
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.92263 100. ? 3522.
   S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1971
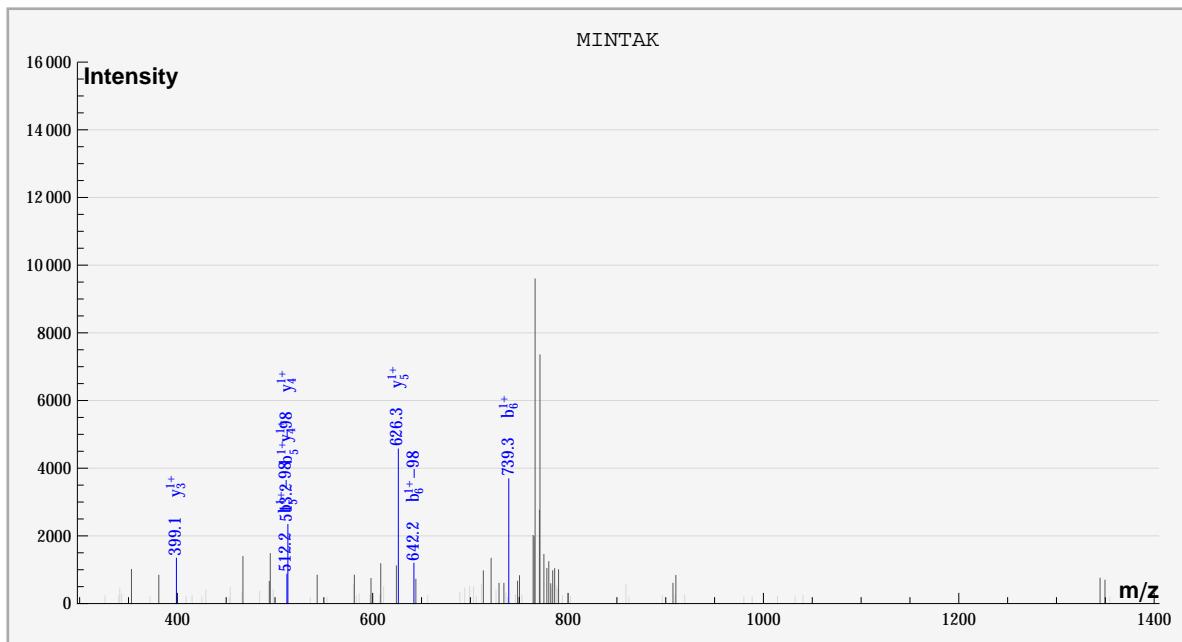
♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
M	1						
I	2		5	✓			
N	3		4	✓			
T	4		3	✓			
A	5		✓	2			
K	6	✓	✓	1			
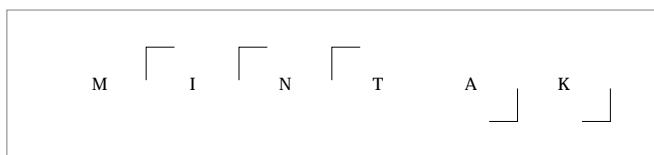
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.50854 100. ? 3534.
    S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1981


|	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5	✓	✓	2				
K	6	✓	✓	1				

dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.31477 1OO. ? 3546.
    S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_1991
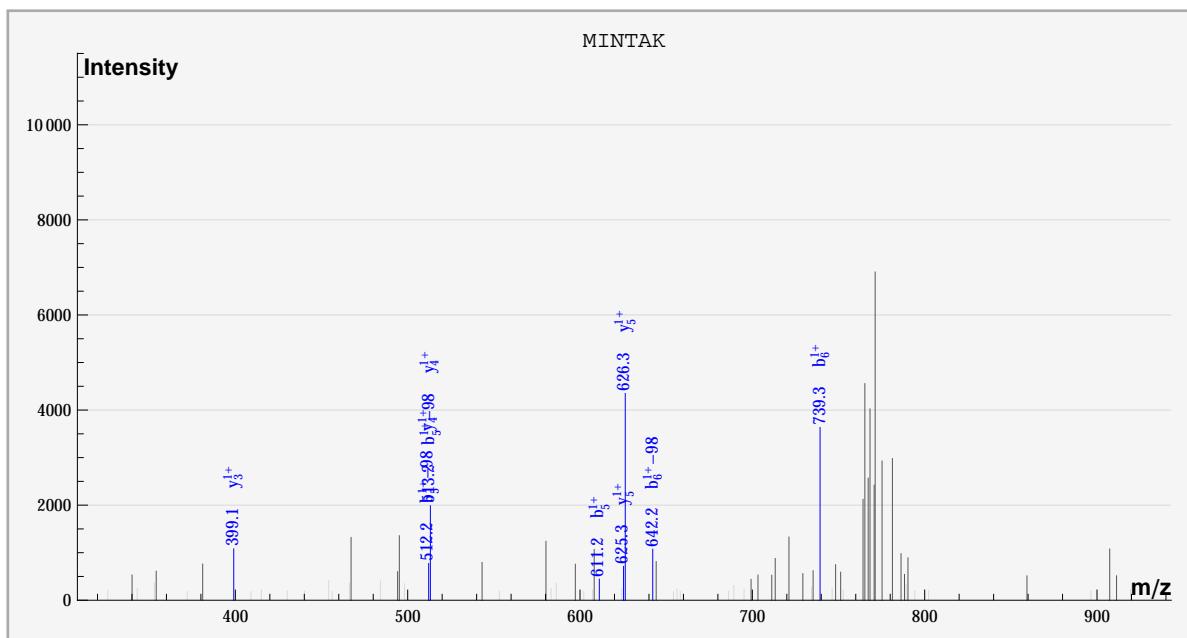

|	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5	✓	✓	2				
K	6	✓	✓	1				
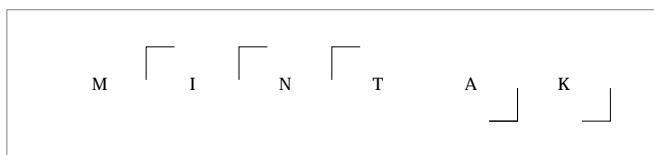
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.4276 100. ? 3558.
     S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2001
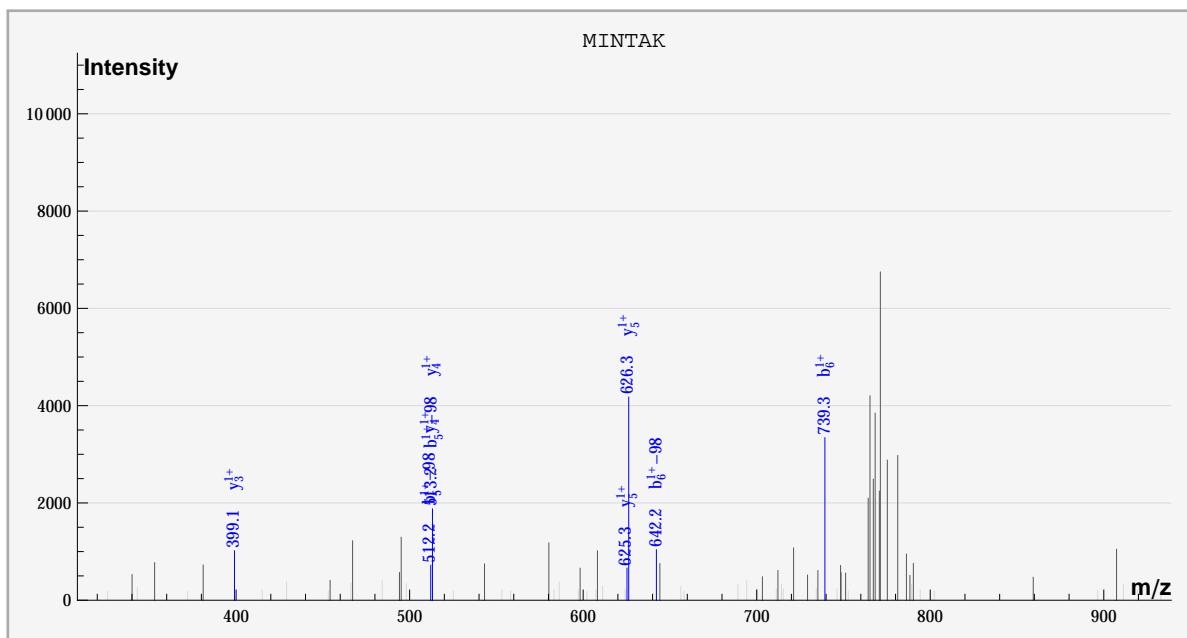
♯	b	b*	♯	y	y*	P	P*
M	1						
I	2			5	✓		
N	3			4	✓		
T	4			3	✓		
A	5		✓	2			
K	6	✓	✓	1			
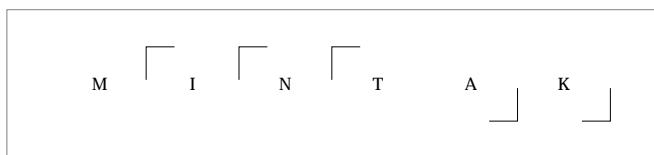
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.71959 100. ? 3570.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2012
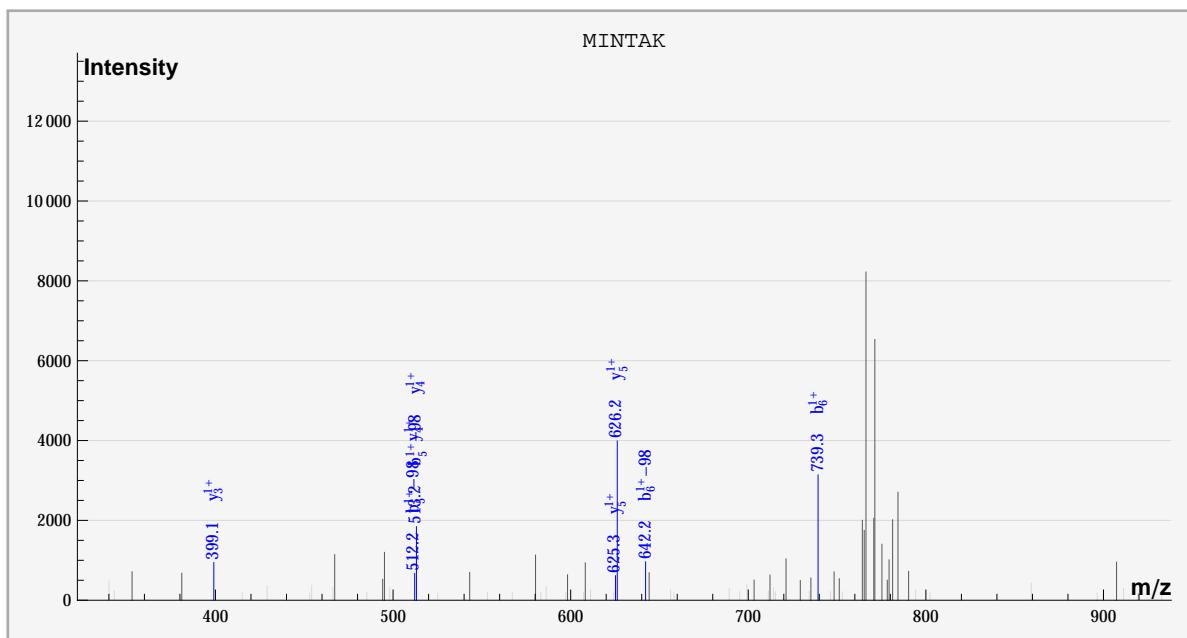

|	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
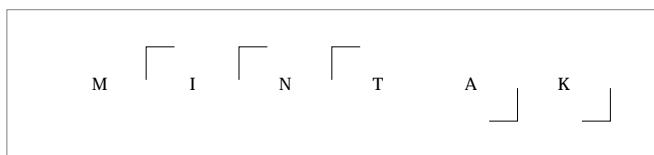
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.24241 100. ? 3582.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2022

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
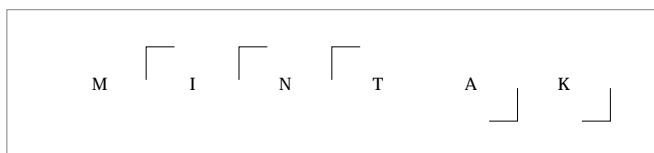
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.3776 100. ? 3594.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2033
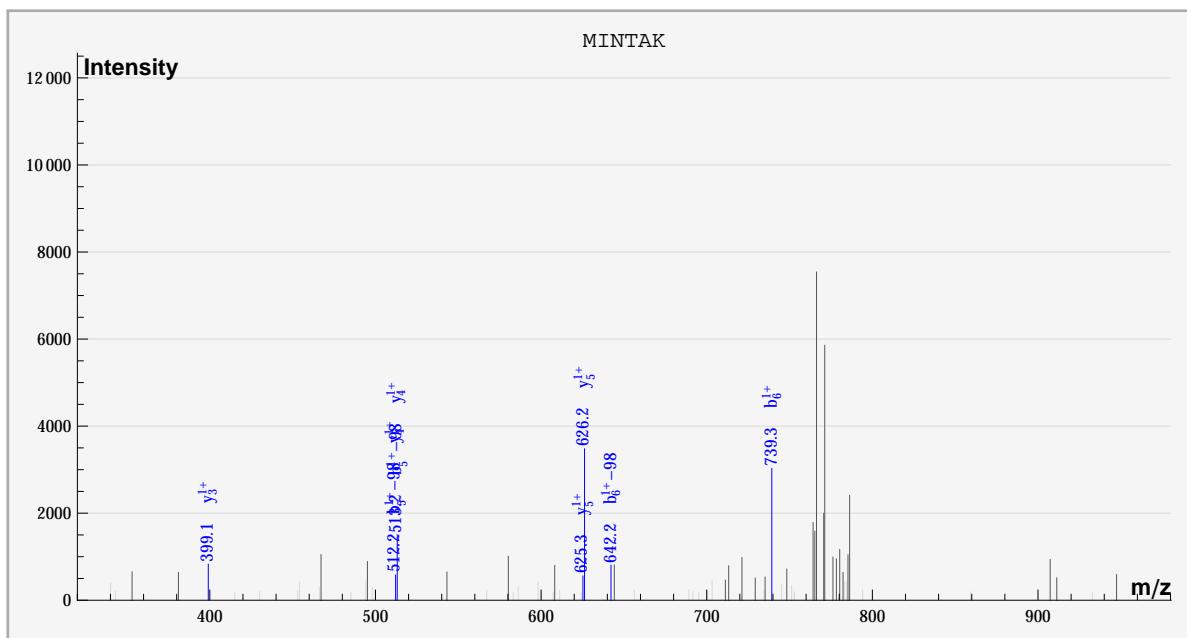

	♯	b	b*	♯	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
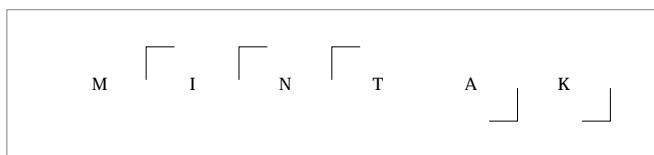
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.36427 100. ? 3642.
 S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2076
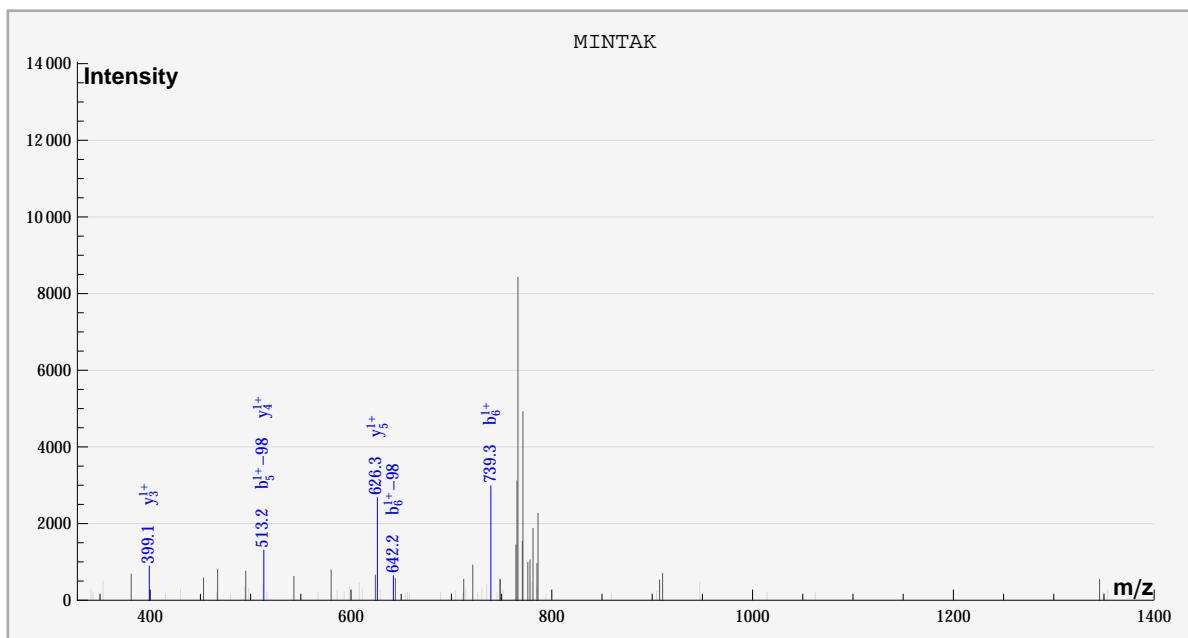
|	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
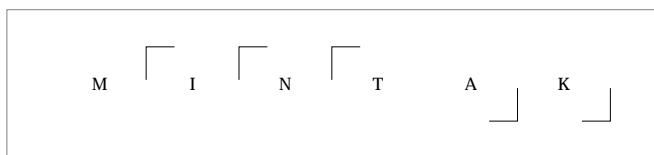
dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.18039 100. ? 3654.
   S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2086
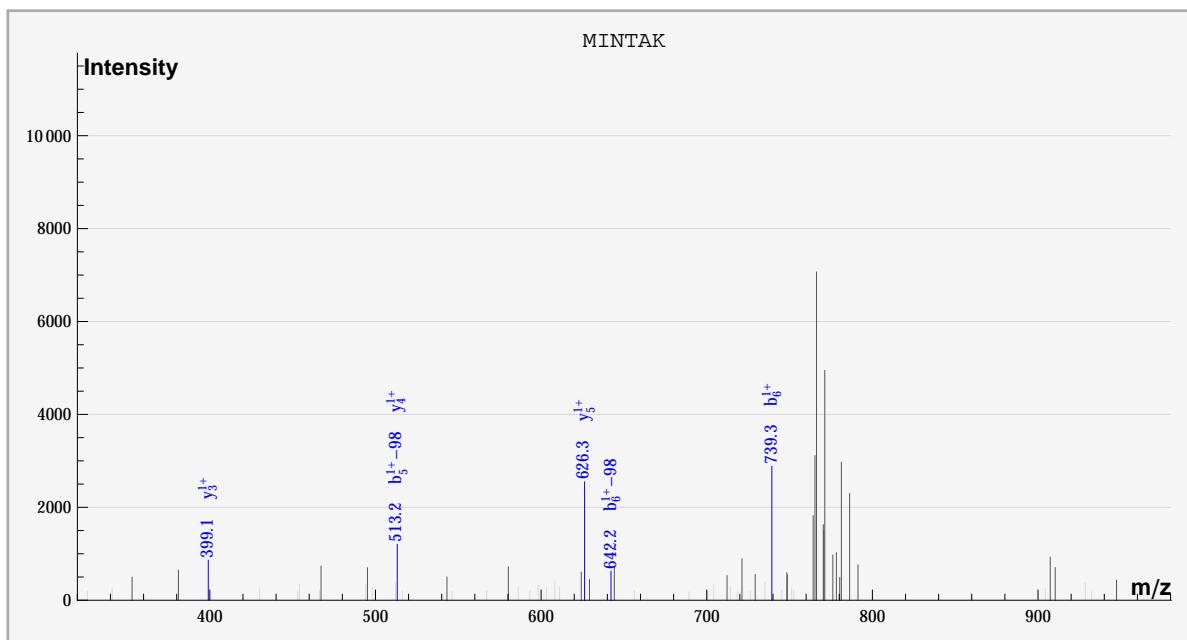

|	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
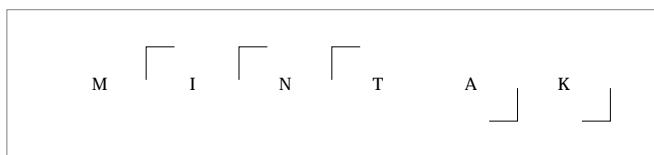
M I N T A K

dbValid true MINTAK PHOS(1) 1. 759. −1.66862 5.14382 100. ? 3666.
S_Acido_new%gi|68568720|gb|AAY81649.1| MINTAK%::::PHOS:::%sample_0%cmpd_2096
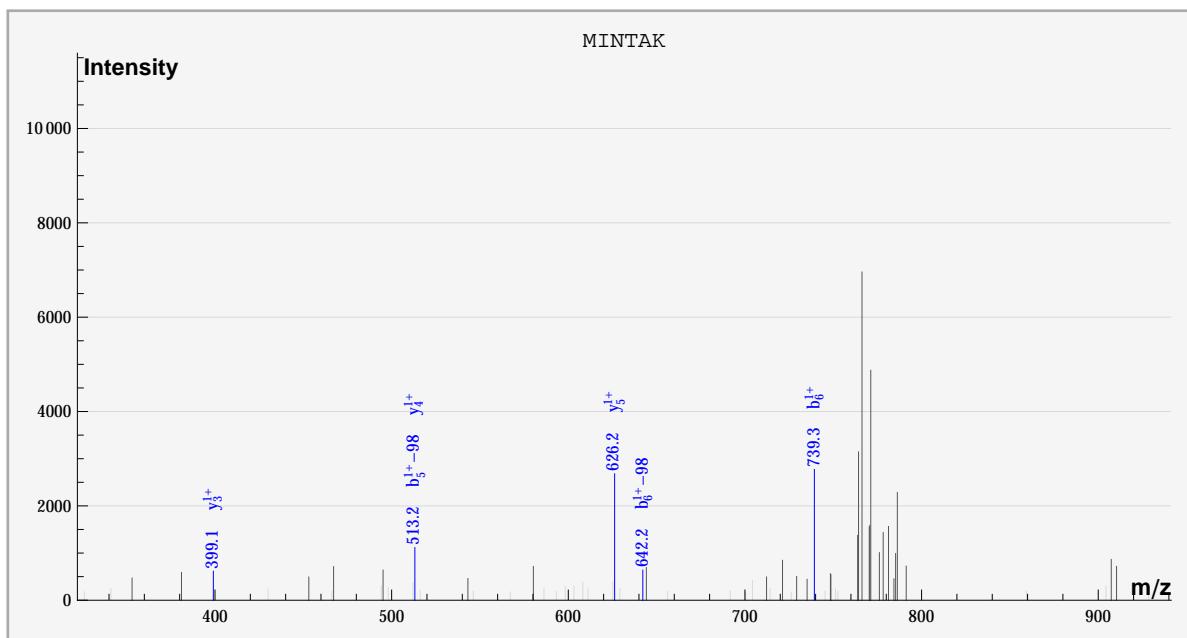

	#	b	b*	#	y	y*	P	P*
M	1							
I	2			5	✓			
N	3			4	✓			
T	4			3	✓			
A	5		✓	2				
K	6	✓	✓	1				
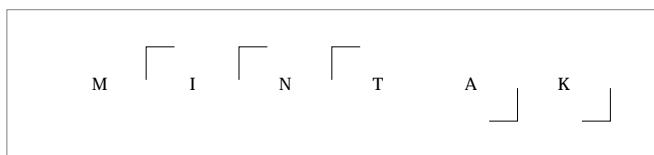
dbValid true YLKGSVKDLLTK PHOS(2) 2. 761. 1.87732 5.60266 100. ? 3666.
 S_Acido_new%gi|68567127|gb|AAY80056.1| YLKGSVKDLLTK%:PHOS::::PHOS:::::::%sample_2%cmpd_2210
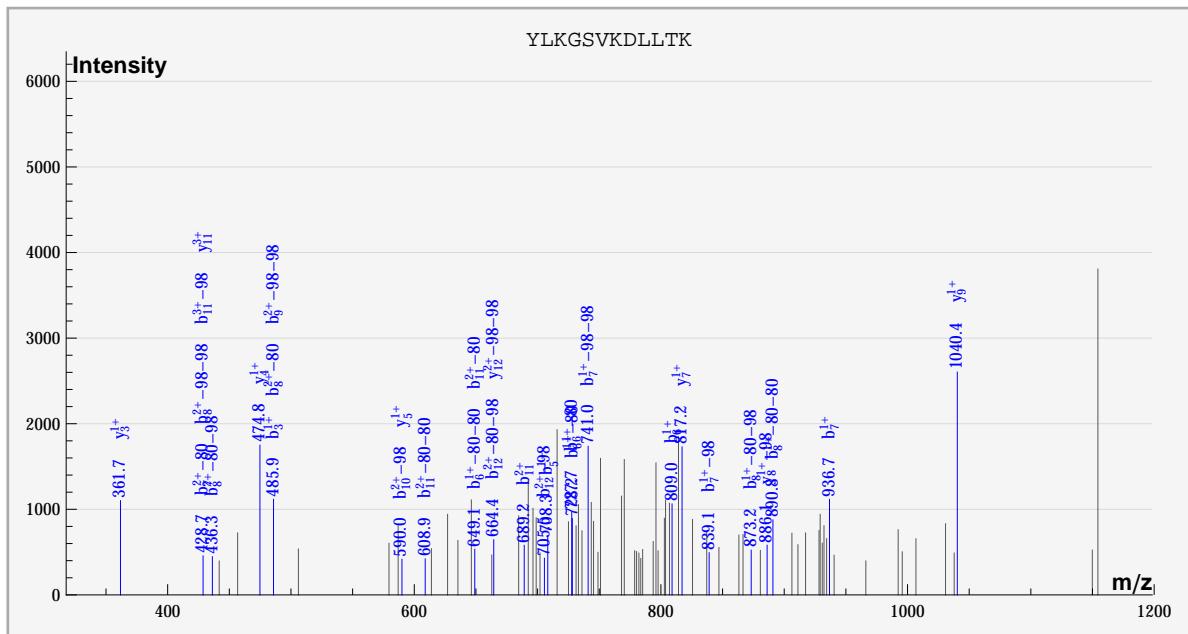
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							✓
L	2			11	✓			
K	3	✓		10				
G	4			9	✓			
S	5	✓		8		✓		
V	6	✓	✓	7	✓			
K	7	✓	✓	6				
D	8		✓	5	✓			
L	9		✓	4	✓			
L	10		✓	3	✓			
T	11	✓	✓	2				
K	12		✓	1				

dbValid true KKDYEYLVLDR PHOS(1) 2. 761. 0.371062 5.19187 100. ? 4794.
 S_Acido_new%gi|68567929|gb|AAY80858.1| KKDYEYLVLDR%::::PHOS::::::::%sample_2%cmpd_3239

KKDYEYLVLDR

	#	b	b*	#	y	y*	P	P*
K	1							
K	2			10				
D	3			9				
Y	4	✓		8				
E	5			7		✓		
Y	6	✓	✓	6		✓		
L	7	✓		5		✓		
V	8			4				
L	9	✓		3				
D	10			2				
R	11			1				

K   K   D   Y   E   Y   L   V   L   D   R

dbValid true SRAGYK PHOS(1) 1. 762. −0.665845 6.5743 100. ? 1758.
S_Acido_new%gi|68568120|gb|AAY81049.1| SRAGYK%:PHOS::::::%sample_2%cmpd_470
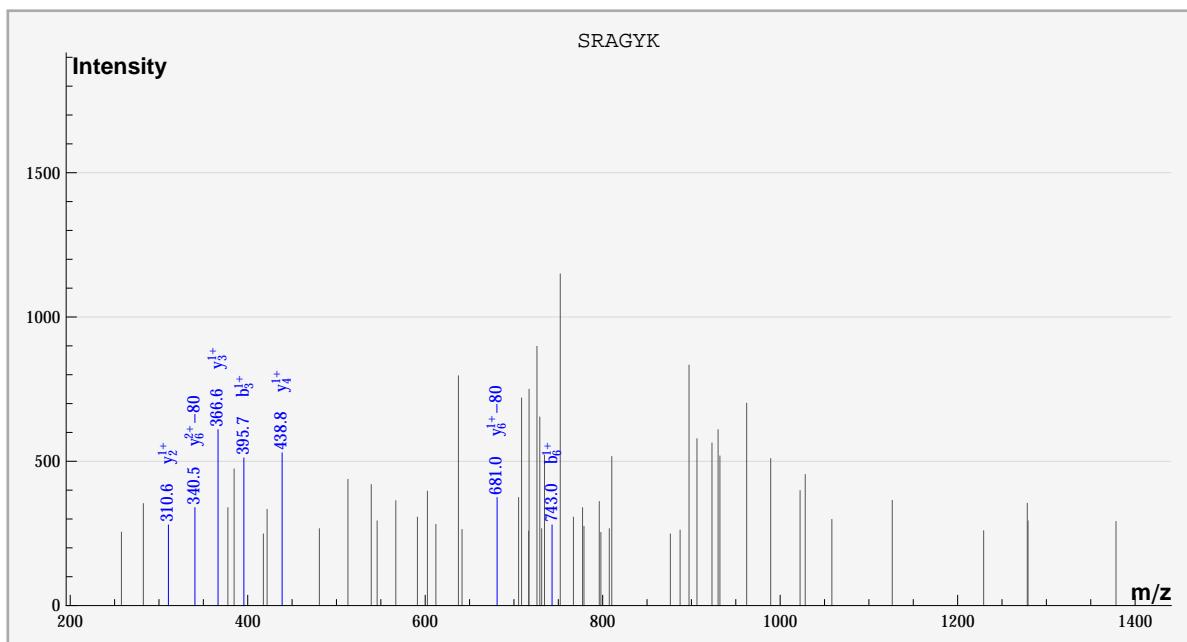
|	♯	b	b*	♯	y	y*	P	P*
S	1							✓
R	2			5				
A	3	✓		4	✓			
G	4			3	✓			
Y	5			2	✓			
K	6	✓		1				
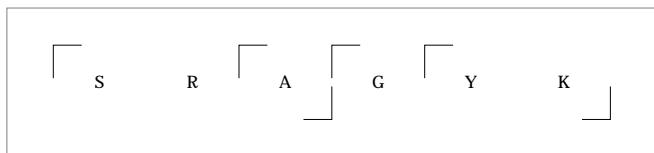
dbValid true YTTGLSEAMRR PHOS(3) 2. 762. 0.771342 5.57448 100. ? 3474.
S_Acido_new%gi|68567530|gb|AAY80459.1| YTTGLSEAMRR%:PHOS:PHOS:PHOS:::::::::%sample_1%cmpd_1893
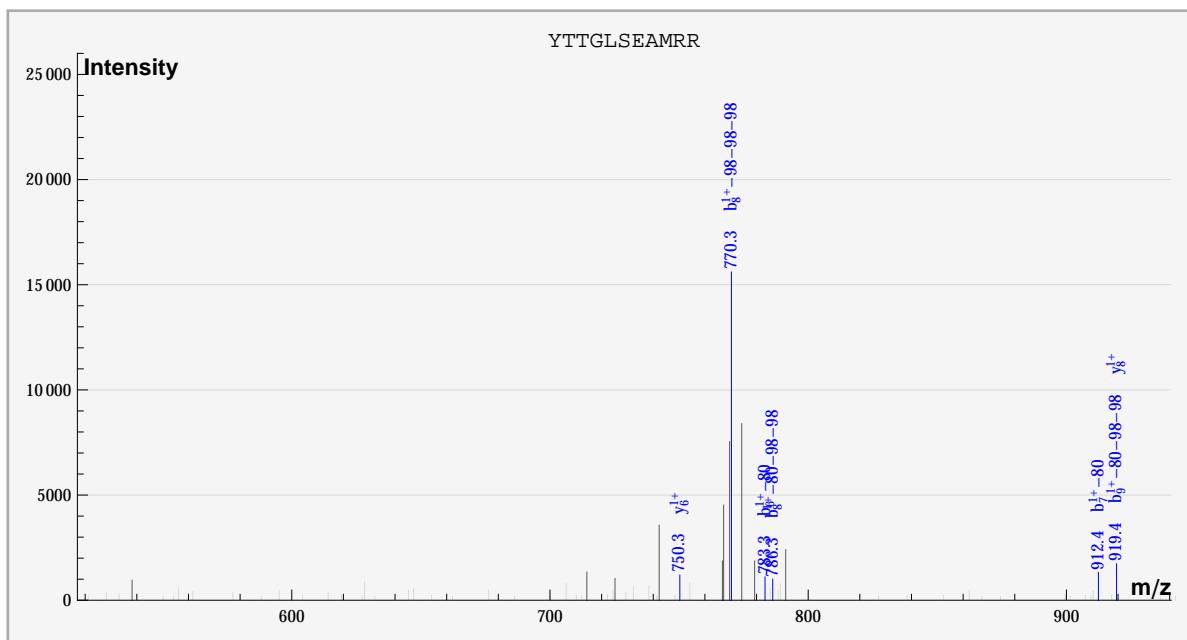
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							
T	2			10				
T	3			9				
G	4			8	✓			
L	5			7				
S	6		✓	6	✓			
E	7		✓	5				
A	8		✓	4				
M	9		✓	3				
R	10			2				
R	11			1				

Y T T G L S E A M R R

dbValid true KIYENAGITPEK PHOS(2) 2. 763. −1.16689 5.15418 100. ? 2706.
  S_Acido_new%gi|68568555|gb|AAY81484.1| KIYENAGITPEK%:::PHOS::::::PHOS::::%sample_2%cmpd_1335
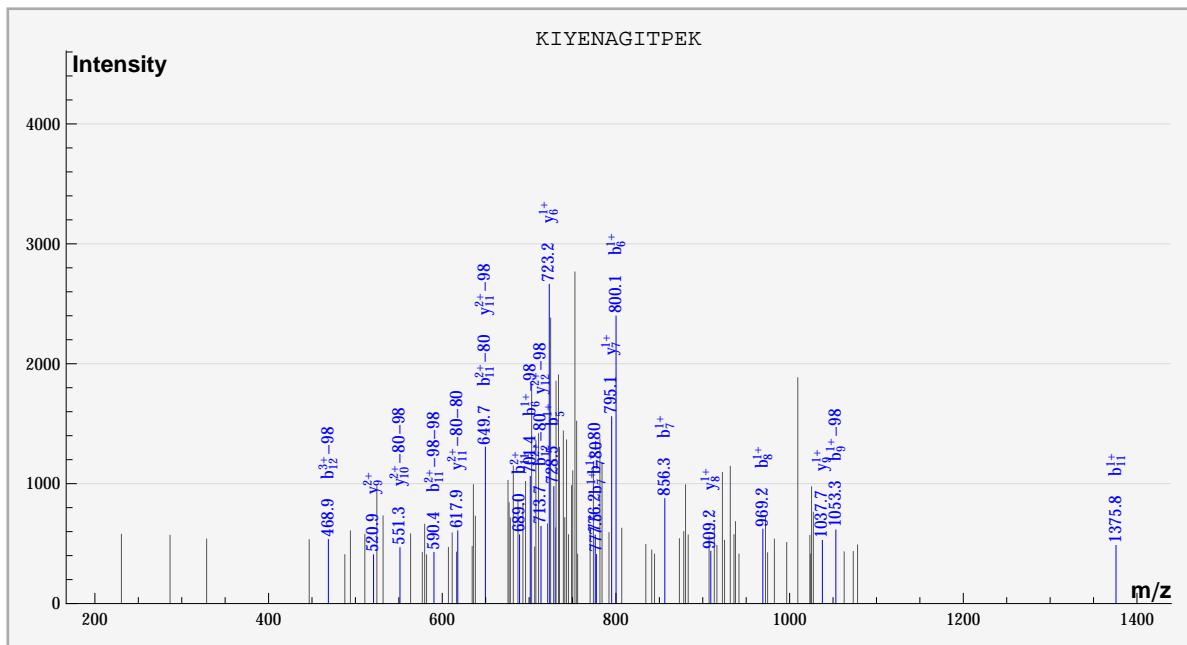
|	#	b	b*	#	y	y*	P	P*
K	1							✓
I	2			11		✓		
Y	3			10		✓		
E	4			9	✓			
N	5	✓		8	✓			
A	6	✓	✓	7	✓			
G	7	✓	✓	6	✓			
I	8	✓		5				
T	9		✓	4				
P	10			3				
E	11	✓	✓	2				
K	12		✓	1				

⌐K ⌐I ⌐Y ⌐E ⌐N⌐A⌐G⌐I⌐T P E⌐K⌐

dbValid true KKDYEYLVLDR PHOS(1) 2. 763. −1.62894 5.17221 100. ? 3426.
S_Acido_new%gi|68567929|gb|AAY80858.1| KKDYEYLVLDR%::::PHOS::::::::%sample_1%cmpd_1854

KKDYEYLVLDR

|	#	b	b*	#	y	y*	P	P*
K	1							
K	2			10				
D	3			9				
Y	4			8				
E	5	✓		7	✓			
Y	6	✓		6	✓			
L	7	✓		5				
V	8		✓	4				
L	9			3				
D	10	✓		2				
R	11			1				

K K D Y ⌐E⌐Y⌐L⌐V⌐L D⌐R

dbValid true KKDYEYLVLDR PHOS(1) 2. 763. −1.62894 5.17371 100. ? 3438.
  S_Acido_new%gi|68567929|gb|AAY80858.1| KKDYEYLVLDR%::::PHOS::::::::%sample_1%cmpd_1864

	#	b	b*	#	y	y*	P	P*
K	1							
K	2			10				
D	3			9				
Y	4			8				
E	5	✓		7	✓			
Y	6	✓		6	✓			
L	7	✓		5				
V	8		✓	4				
L	9			3				
D	10	✓		2				
R	11			1				

K   K   D   Y   E   Y   L   V   L   D   R

dbValid true KKDYEYLVLDR PHOS(1) 2. 763. −1.62894 6.19853 100. ? 4590.
S_Acido_new%gi|68567929|gb|AAY80858.1| KKDYEYLVLDR%::::PHOS::::::::%sample_2%cmpd_3052

KKDYEYLVLDR

	#	b	b*	#	y	y*	P	P*
K	1							✓
K	2			10		✓		
D	3			9				
Y	4	✓		8				
E	5	✓	✓	7	✓			
Y	6	✓	✓	6	✓			
L	7		✓	5	✓			
V	8			4				
L	9	✓		3				
D	10		✓	2				
R	11		✓	1				

K K D Y E Y L V L D R

dbValid true EGIKVIYLVPKGK PHOS(1) 2. 764. −1.56654 5.1157 100. ? 4746.
  S_Acido_new%gi|68567271|gb|AAY80200.1| EGIKVIYLVPKGK%:::::::PHOS:::::::%sample_2%cmpd_3198
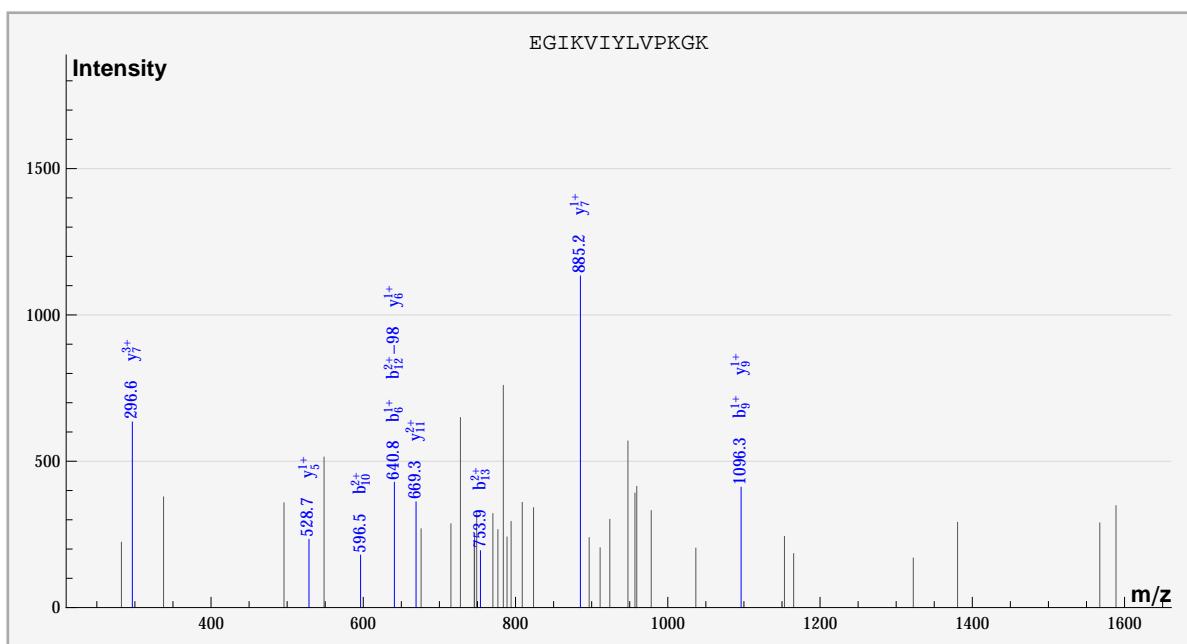
|	♯	b	b*	♯	y	y*	P	P*
E	1							
G	2			12				
I	3			11	✓			
K	4			10				
V	5			9	✓			
I	6	✓		8				
Y	7			7	✓			
L	8			6	✓			
V	9	✓		5	✓			
P	10	✓		4				
K	11			3				
G	12		✓	2				
K	13	✓		1				

dbValid true EYTIEFSQFRK PHOS(1) 2. 765. −0.652408 5.11093 100. ? 1038.
S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::::%sample_3%cmpd_3764
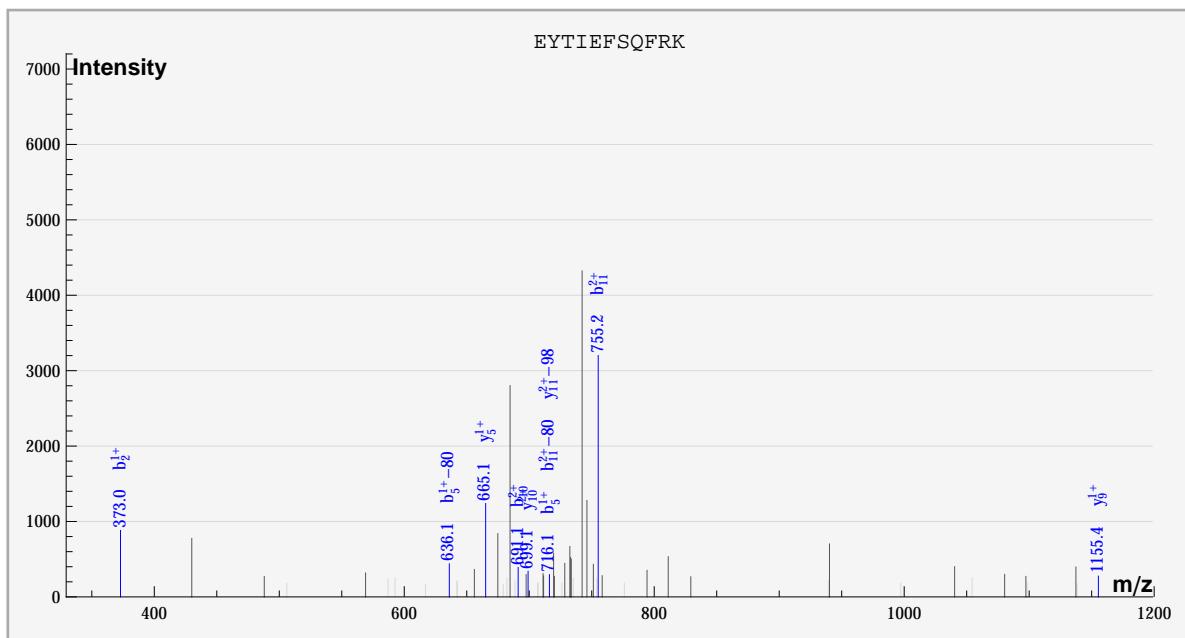
| ♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2	✓		10	✓		
T	3			9	✓		
I	4			8			
E	5	✓	✓	7			
F	6			6			
S	7			5	✓		
Q	8			4			
F	9			3			
R	10	✓		2			
K	11	✓	✓	1			
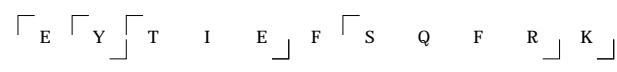
dbValid true EYTIEFSQFRK PHOS(1) 2. 765. −0.652408 5.30454 100. ? 1050.
  S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::%sample_3%cmpd_3775
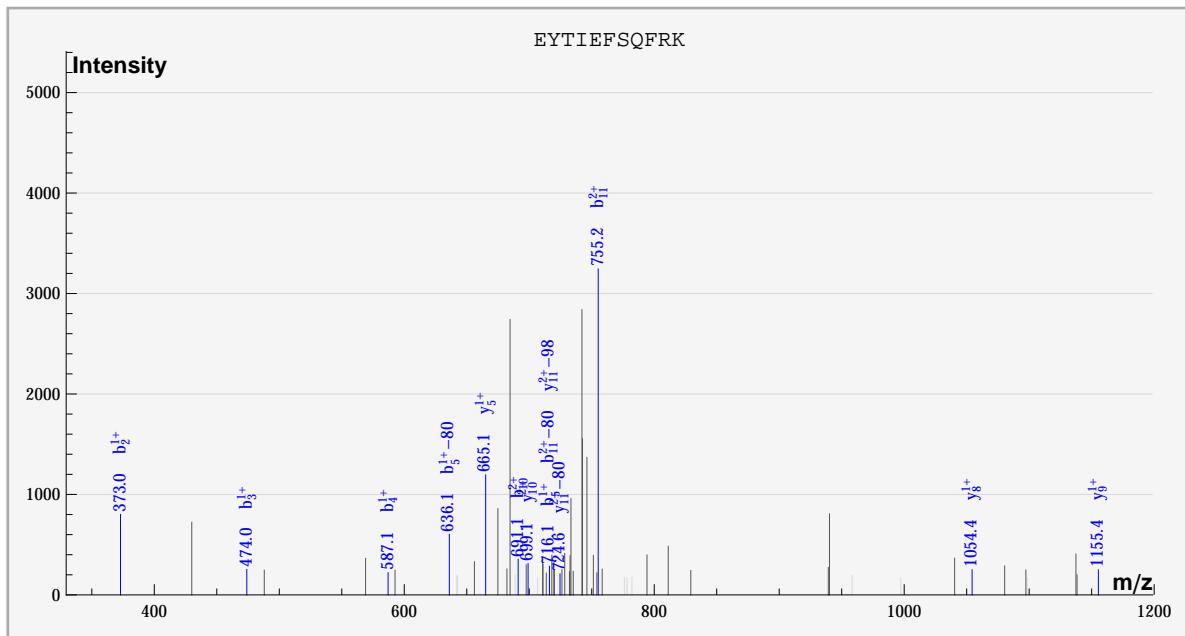
| ♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
E	1							✓
Y	2	✓		10	✓		
T	3	✓		9	✓		
I	4	✓		8	✓		
E	5	✓	✓	7			
F	6			6			
S	7			5	✓		
Q	8			4			
F	9			3			
R	10	✓		2			
K	11	✓	✓	1			

dbValid true EYTIEFSQFRK PHOS(1) 2. 765. −0.652408 5.55369 100. ? 1062.
S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::::%sample_3%cmpd_3786
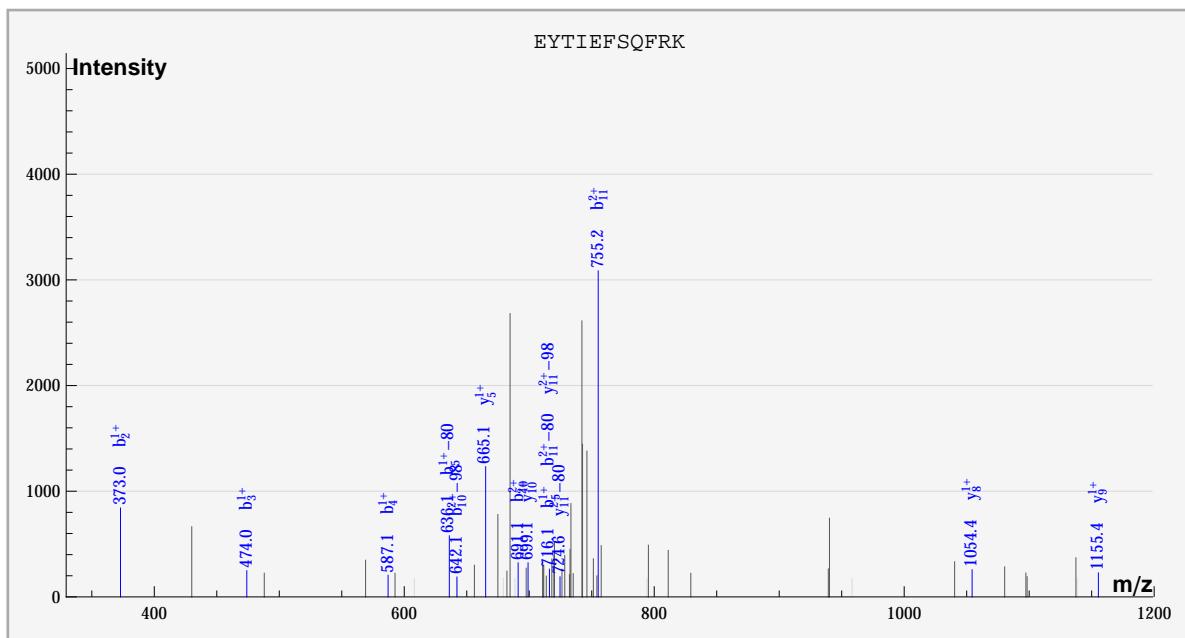
|	♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2	✓		10	✓			
T	3	✓		9	✓			
I	4	✓		8	✓			
E	5	✓	✓	7				
F	6			6				
S	7			5	✓			
Q	8			4				
F	9			3				
R	10	✓	✓	2				
K	11	✓	✓	1				

E Y T I E F S Q F R K

dbValid true EYTIEFSQFRK PHOS(1) 2. 765. −0.652408 5.24957 100. ? 1074.
S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::::%sample_3%cmpd_3797

|	♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2	✓		10	✓			
T	3	✓		9				
I	4			8	✓			
E	5	✓	✓	7				
F	6			6				
S	7			5	✓			
Q	8			4				
F	9			3				
R	10	✓		2				
K	11	✓	✓	1				

dbValid   true   EYTIEFSQFRK   PHOS(1)   2.   765.   −0.652408   5.69056   100.   ?   1086.
  S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS::::::::::%sample_3%cmpd_3807

|	#	*b*	*b**	#	*y*	*y**	**P**	**P***
E	1							✓
Y	2	✓		10	✓			
T	3	✓		9				
I	4			8	✓			
E	5	✓	✓	7				
F	6			6				
S	7			5	✓			
Q	8			4				
F	9			3				
R	10	✓		2				
K	11	✓	✓	1				
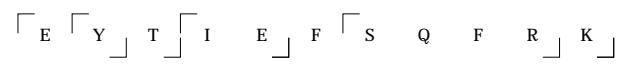
dbValid true EYTIEFSQFRK PHOS(1) 2. 765. −0.652408 5.75883 100. ? 1098.
S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::%sample_3%cmpd_3818

	#	b	b*	#	y	y*	P	P*
E	1							✓
Y	2	✓		10	✓			
T	3	✓		9				
I	4			8	✓			
E	5	✓	✓	7				
F	6			6				
S	7			5	✓			
Q	8			4				
F	9			3				
R	10	✓		2				
K	11	✓	✓	1				

E Y T I E F S Q F R K

dbValid   true   EYTIEFSQFRK   PHOS(1)   2.   766.   −1.65241   5.25956   100.   ?   1692.
S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::%sample_1%cmpd_377

	#	b	b*	#	y	y*	P	P*
E	1							✓
Y	2	✓	✓	10				
T	3	✓		9		✓		
I	4	✓	✓	8		✓		
E	5	✓	✓	7		✓		
F	6			6				
S	7			5		✓		
Q	8			4				
F	9			3				
R	10			2				
K	11	✓	✓	1				
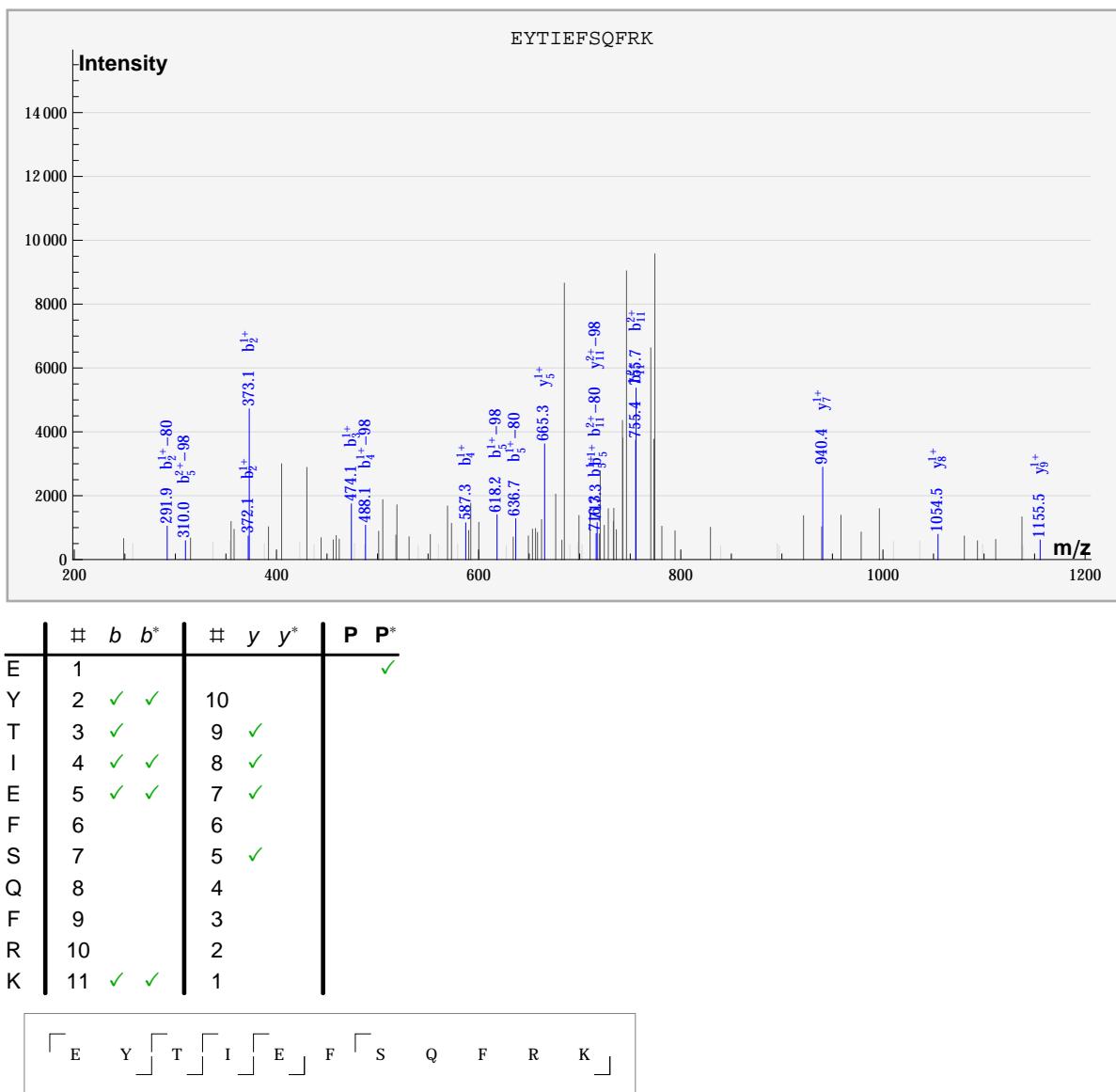
dbValid true EYTIEFSQFRK PHOS(1) 2. 766. −1.65241 5.21424 100. ? 1854.
  S_Acido_new%gi|68566565|gb|AAY79494.1| EYTIEFSQFRK%::PHOS:::::::::::%sample_2%cmpd_561
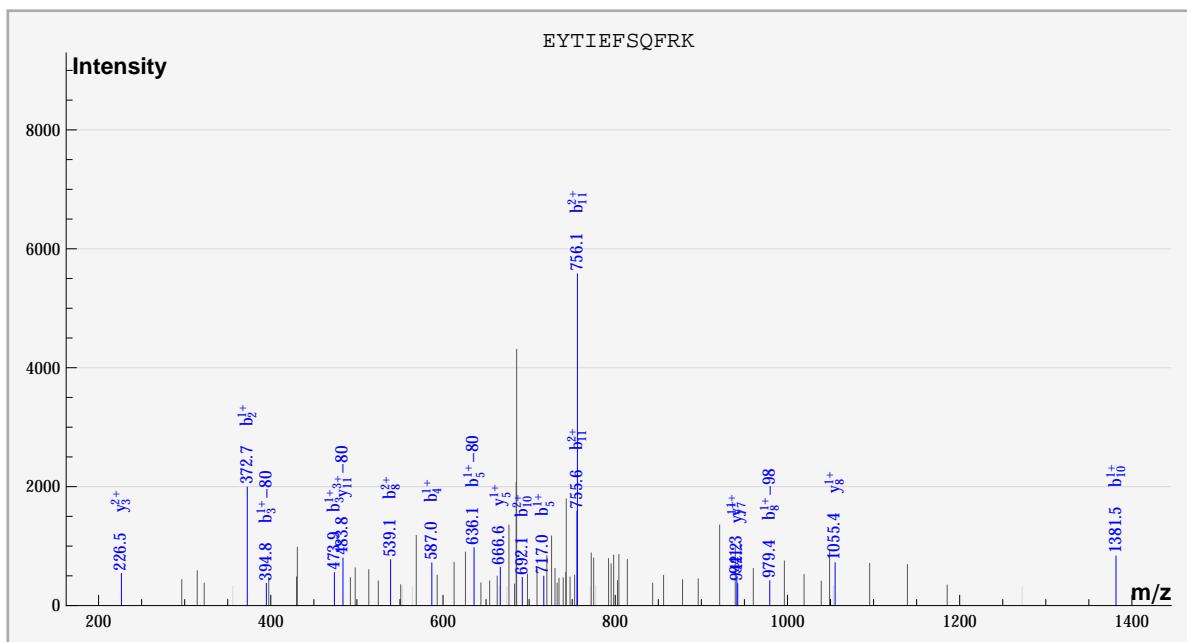
	♯	b	b*	♯	y	y*	P	P*
E	1							✓
Y	2	✓		10				
T	3	✓	✓	9				
I	4	✓		8	✓			
E	5	✓	✓	7	✓			
F	6			6				
S	7			5	✓			
Q	8	✓	✓	4				
F	9			3	✓			
R	10	✓		2				
K	11	✓		1				
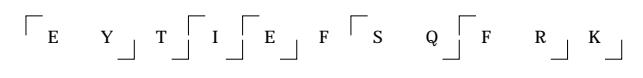
dbValid true NCMSYLEEETR Cys_CAM(1),Oxidation_M(1),PHOS(1) 2. 766. −1.72181 5.1555 100. ? 1860.
S_Acido_new%gi|68568133|gb|AAY81062.1| NCMSYLEEETR%::Cys_CAM:Oxidation_M:PHOS::::::::%sample_1%cmpd_520
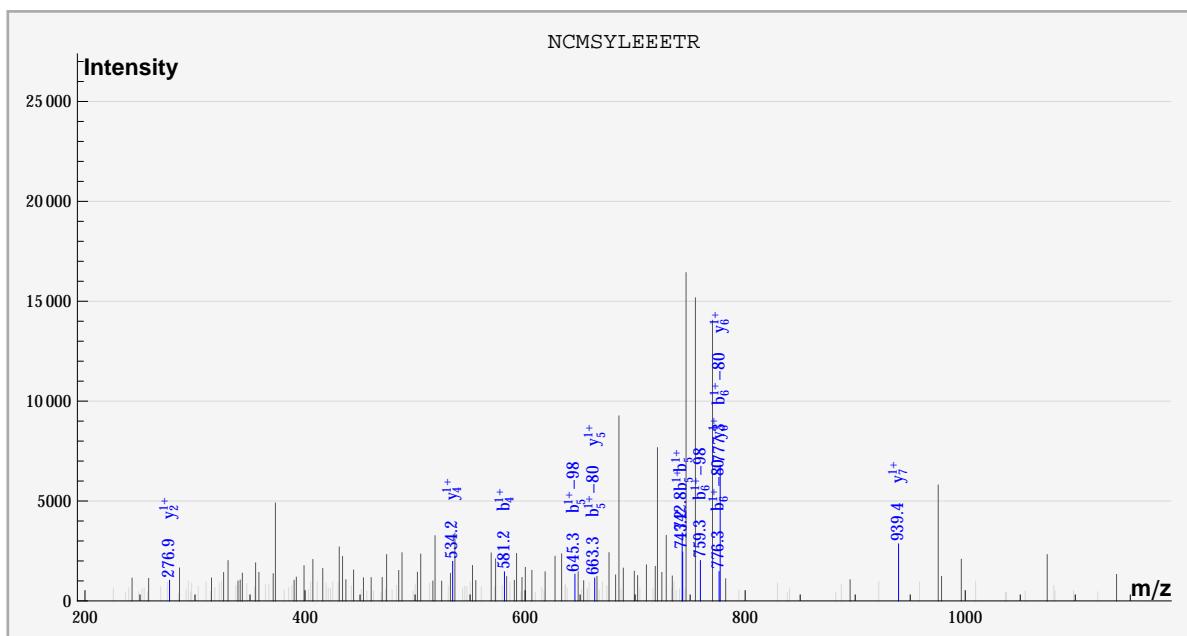
	#	b	b*	#	y	y*	P	P*
N	1							
C	2			10				
M	3			9				
S	4	✓		8				
Y	5	✓	✓	7	✓			
L	6		✓	6	✓			
E	7			5	✓			
E	8			4	✓			
E	9			3				
T	10			2	✓			
R	11			1				

dbValid true SHSIIK PHOS(1) 1. 766. −1.6298 5.06896 100. ? 2088.
S_Acido_new%gi|68567122|gb|AAY80051.1| SHSIIK%:PHOS::::::%sample_1%cmpd_714
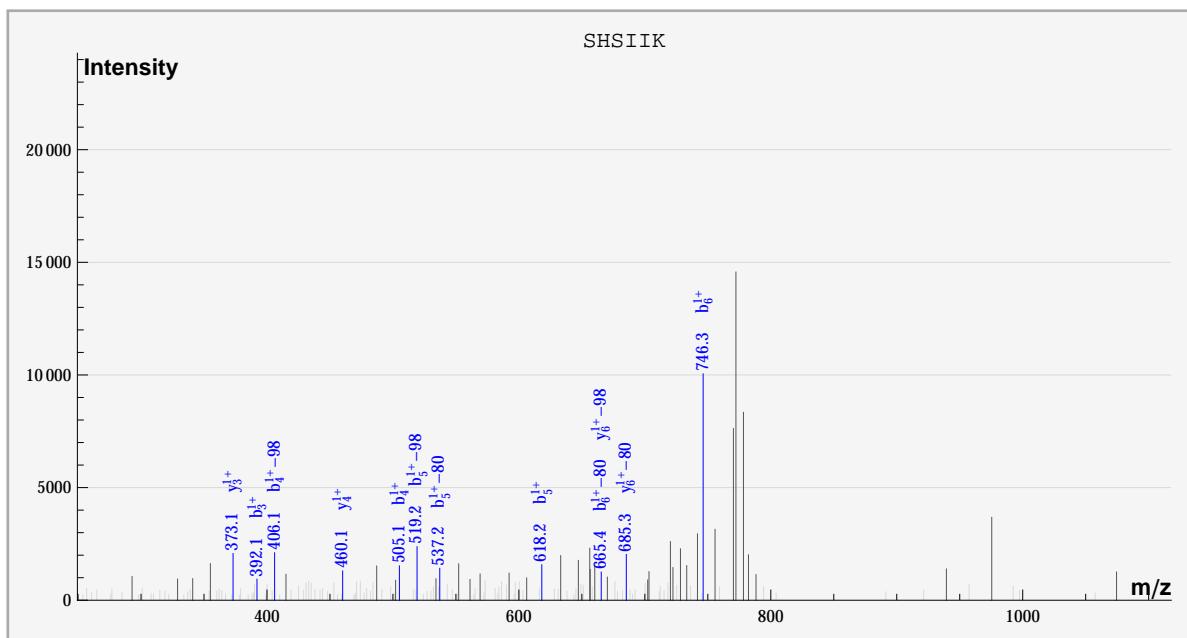
♯	b	b*	♯	y	y*	P	P*
S	1							✓
H	2			5				
S	3	✓		4	✓			
I	4	✓	✓	3	✓			
I	5	✓	✓	2				
K	6	✓	✓	1				
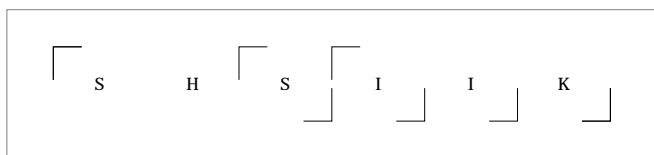
dbValid true YWKAYLDAYKK PHOS(1) 2. 766. −1.13458 5.31207 100. ? 4044.
  S_Acido_new%gi|68568649|gb|AAY81578.1| YWKAYLDAYKK%:PHOS:::::::::::%sample_2%cmpd_2559
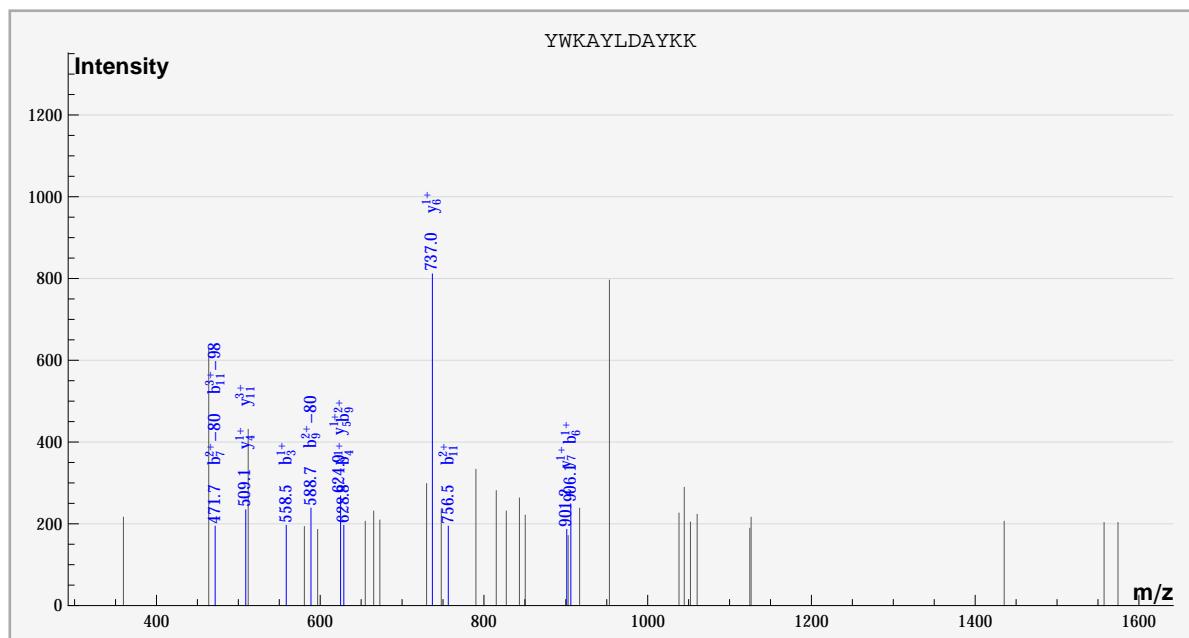
	#	b	b*	#	y	y*	P	P*
Y	1						✓	
W	2			10				
K	3	✓		9				
A	4	✓		8				
Y	5			7	✓			
L	6	✓		6	✓			
D	7		✓	5	✓			
A	8			4	✓			
Y	9	✓	✓	3				
K	10			2				
K	11	✓	✓	1				
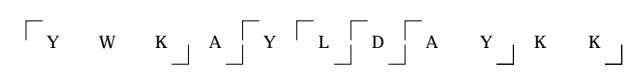
dbValid   true   WVSSEILTINK   PHOS(3)   2.   767.   −1.69192   5.14445   100.   ?   1506.
S_Acido_new%gi|68566506|gb|AAY79435.1| WVSSEILTINK%:::PHOS:PHOS::::PHOS::::%sample_2%cmpd_251

	♯	b	b^*	♯	y	y^*	P	P*
W	1							✓
V	2			10		✓		
S	3			9		✓		
S	4	✓		8	✓			
E	5	✓	✓	7	✓			
I	6	✓	✓	6		✓		
L	7			5	✓			
T	8		✓	4				
I	9			3	✓			
N	10	✓	✓	2				
K	11	✓	✓	1				

dbValid true LPNTIK PHOS(1) 1. 767. −1.6094 5.27571 100. ? 2430.
  S_Acido_new%gi|68568211|gb|AAY81140.1| LPNTIK%::::PHOS:::%sample_2%cmpd_1083

|	♯	b	b*	♯	y	y*	P	P*
L	1							✓
P	2			5	✓			
N	3			4	✓			
T	4			3	✓			
I	5			2				
K	6	✓		1				
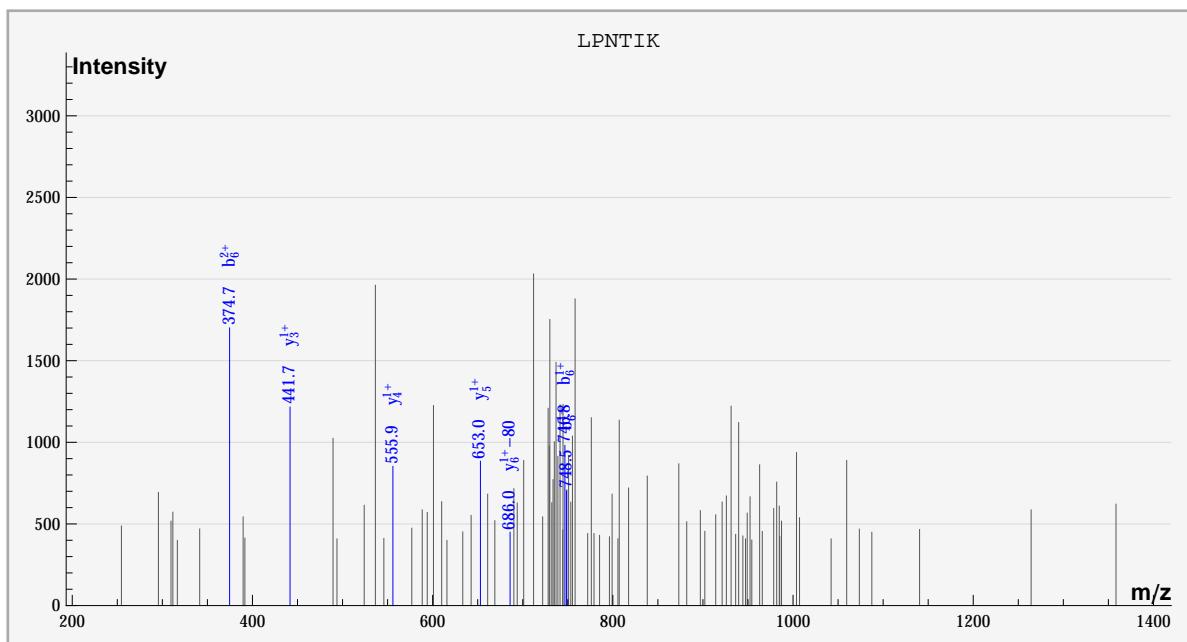
dbValid   true   MRFSIGDVRKPK   Oxidation_M(1),PHOS(1)   2.   767.   −1.61348   5.06367   100.   ?   2508.
   S_Acido_new%gi|68566913|gb|AAY79842.1| MRFSIGDVRKPK%:Oxidation_M:::PHOS:::::::::%sample_3%cmpd_1071


	#	b	b*	#	y	y*	P	P*
M	1							
R	2			11				
F	3			10				
S	4			9				
I	5	✓	✓	8		✓		
G	6	✓	✓	7		✓		
D	7	✓	✓	6		✓		
V	8		✓	5		✓		
R	9		✓	4				
K	10			3		✓		
P	11			2				
K	12	✓	✓	1				

M   R   F   S   ⌐I   ⌐G   ⌐D   ⌐V   R   ⌐K   P   K⌐

dbValid true AVATVIEGGTITSR PHOS(2) 2. 767. 0.849292 5.50591 100. ? 2514.
S_Acido_new%gi|68568029|gb|AAY80958.1| AVATVIEGGTITSR%:::::::::PHOS:::PHOS::%sample_2%cmpd_1161
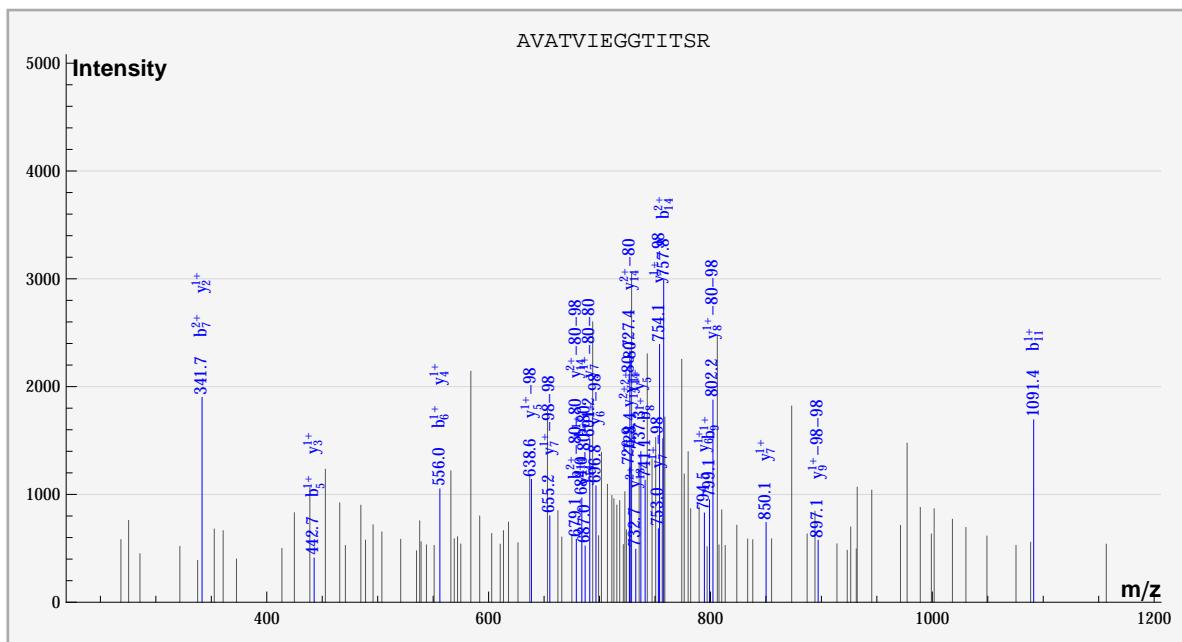
	#	b	b*	#	y	y*	P	P*
A	1							✓
V	2			13	✓			
A	3			12				
T	4			11				
V	5	✓		10				
I	6	✓		9		✓		
E	7	✓		8		✓		
G	8	✓		7	✓	✓		
G	9	✓		6	✓	✓		
T	10			5	✓	✓		
I	11	✓		4	✓			
T	12			3	✓			
S	13			2	✓			
R	14	✓	✓	1				

A V A T V I E G G T I T S R

dbValid true MRFSIGDVRKPK Oxidation_M(1),PHOS(1) 2. 767. −1.61348 5.27307 100. ? 2520.
  S_Acido_new%gi|68566913|gb|AAY79842.1| MRFSIGDVRKPK%:Oxidation_M:::PHOS:::::::::%sample_3%cmpd_1081

MRFSIGDVRKPK

	#	b	b*	#	y	y*	P	P*
M	1							
R	2			11				
F	3			10				
S	4			9				
I	5	✓	✓	8		✓		
G	6	✓	✓	7		✓		
D	7	✓	✓	6		✓		
V	8		✓	5		✓		
R	9		✓	4				
K	10			3		✓		
P	11			2				
K	12	✓		1				

M   R   F   S   I   G   D   V   R   K   P   K

dbValid true TILVIK PHOS(1) 1. 768. −1.55262 5.96909 100. ? 2304.
S_Acido_new%gi|68566590|gb|AAY79519.1| TILVIK%:PHOS::::::%sample_1%cmpd_898
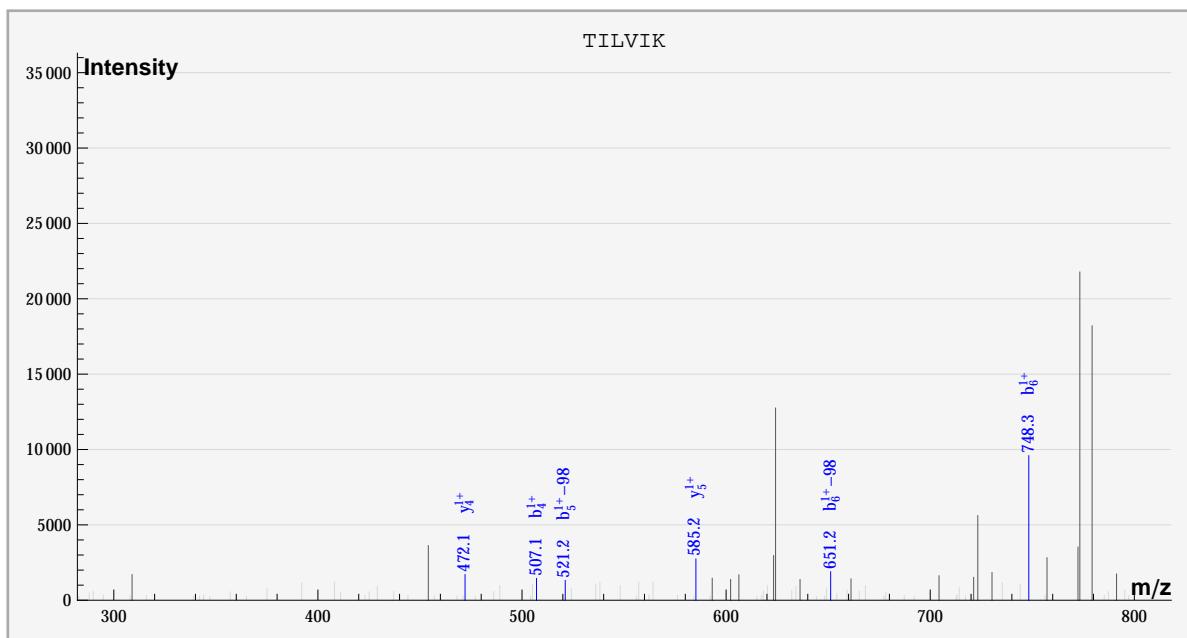
	♯	b	b*	♯	y	y*	P	P*
T	1							
I	2			5	✓			
L	3			4	✓			
V	4	✓		3				
I	5		✓	2				
K	6	✓	✓	1				
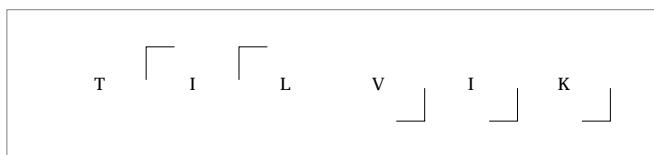
dbValid true LSNILK PHOS(1) 1. 768. −0.593745 5.14961 100. ? 2880.
    S_Acido_new%gi|68567433|gb|AAY80362.1| LSNILK%::PHOS:::::%sample_2%cmpd_1495
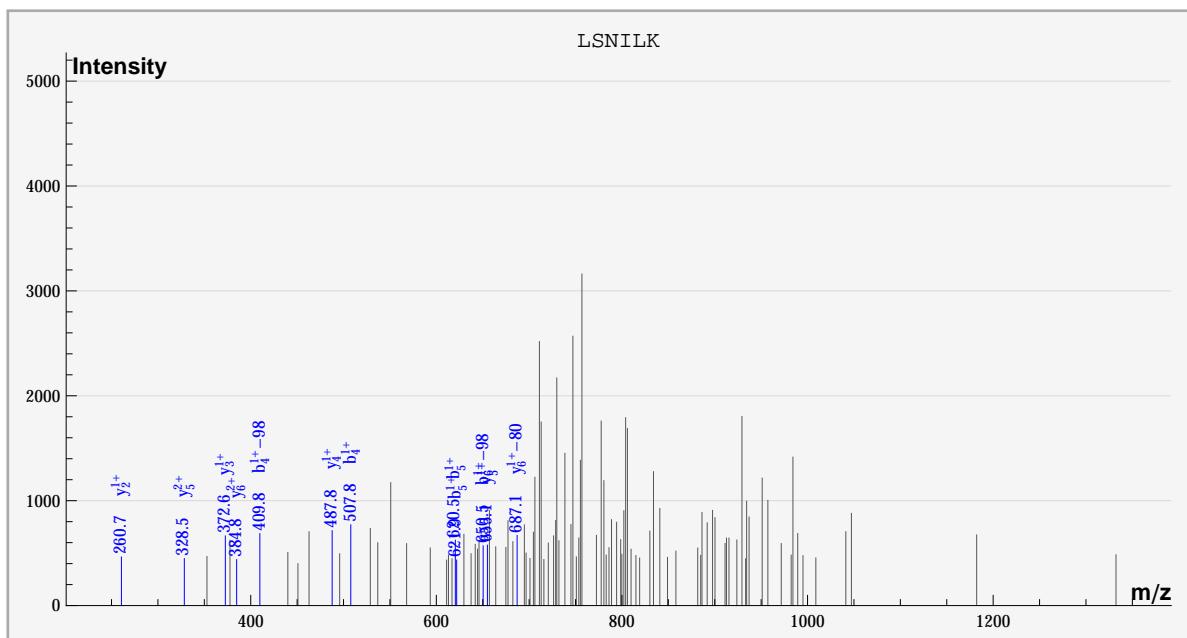
	♯	b	b*	♯	y	y*	P	P*
L	1						✓	✓
S	2			5	✓			
N	3			4	✓			
I	4	✓	✓	3	✓			
L	5	✓		2	✓			
K	6		✓	1				
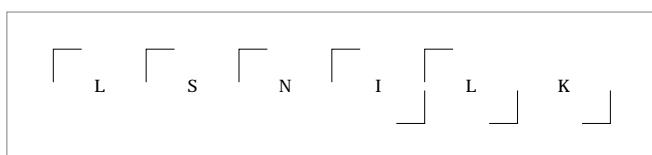
dbValid true LKYTEDSFLMK PHOS(2) 2. 768. −0.181378 5.09053 100. ? 4908.
S_Acido_new%gi|68568425|gb|AAY81354.1| LKYTEDSFLMK%:::PHOS:PHOS::::::::%sample_2%cmpd_3346
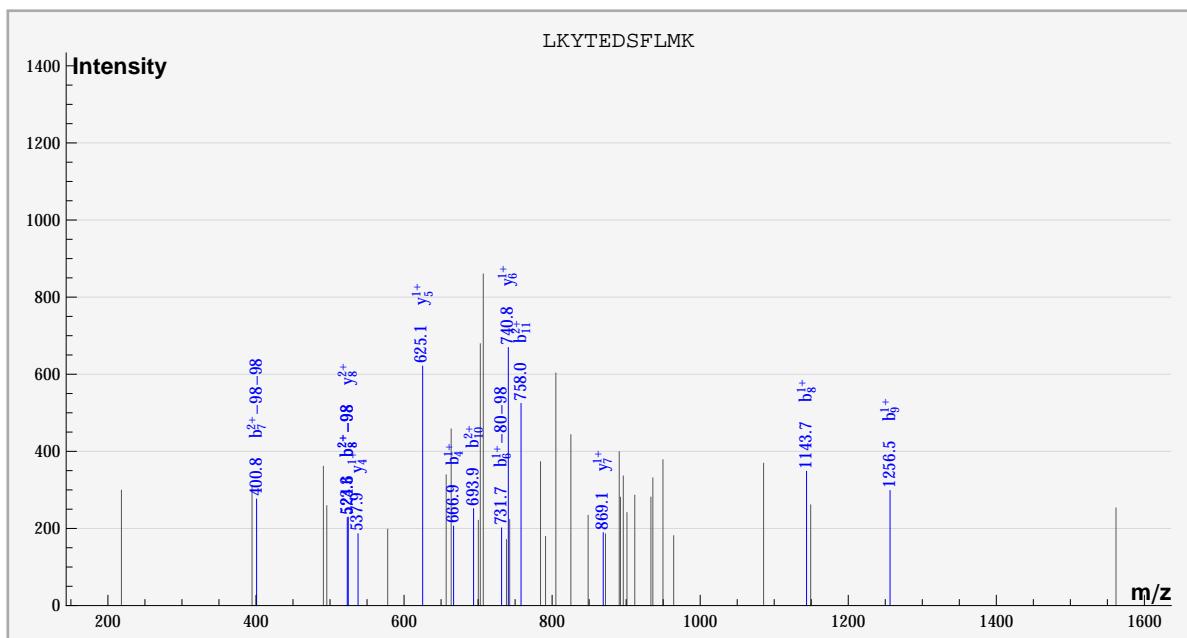
	♯	b	b*	♯	y	y*	P	P*
L	1							
K	2			10				
Y	3			9				
T	4	✓		8	✓			
E	5			7	✓			
D	6		✓	6	✓			
S	7		✓	5	✓			
F	8	✓	✓	4	✓			
L	9	✓		3				
M	10	✓		2				
K	11	✓		1				

L   K   Y   T   E   D   S   F   L   M   K

dbValid true FYGKIEGIRYK PHOS(2) 2. 769. −1.65127 5.0446 100. ? 4362.
 S_Acido_new%gi|68568349|gb|AAY81278.1| FYGKIEGIRYK%::PHOS::::::::PHOS::%sample_2%cmpd_2850

FYGKIEGIRYK
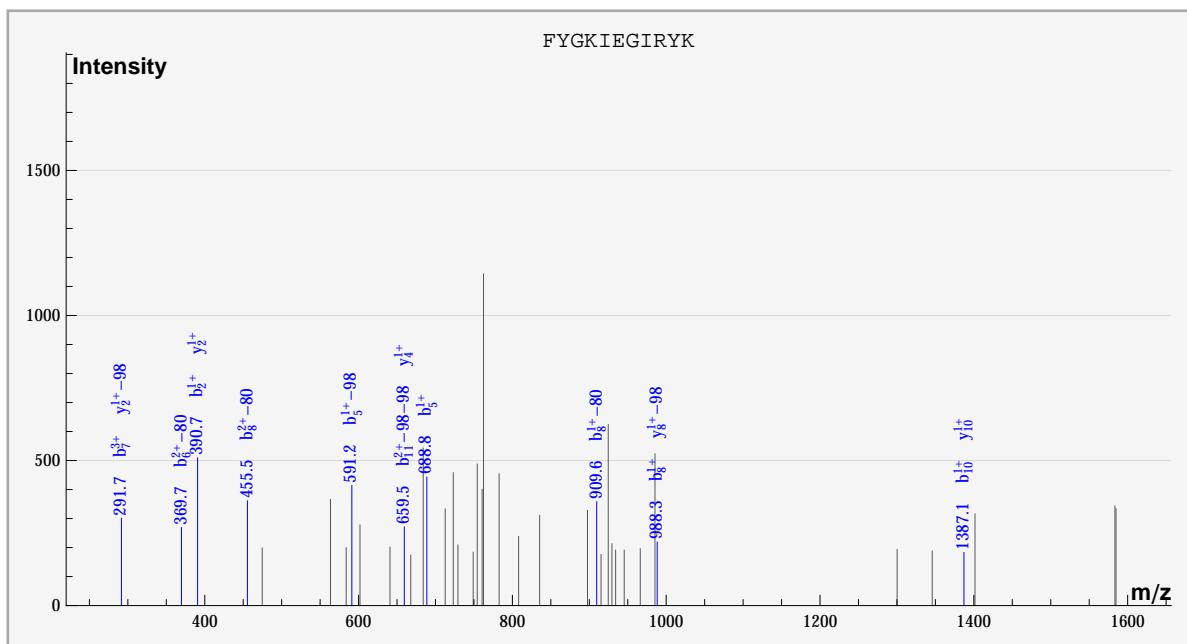
	#	b	b*	#	y	y*	P	P*
F	1							
Y	2	✓		10	✓			
G	3			9				
K	4			8		✓		
I	5	✓	✓	7				
E	6		✓	6				
G	7	✓		5				
I	8	✓	✓	4	✓			
R	9			3				
Y	10	✓		2	✓	✓		
K	11		✓	1				

F Y G K I E G I R Y K

dbValid true GIYIPK PHOS(1) 1. 769. 1.38479 5.53031 100. ? 582.
 S_Acido_new%gi|68567741|gb|AAY80670.1| GIYIPK%:::PHOS::::%sample_2%cmpd_3825
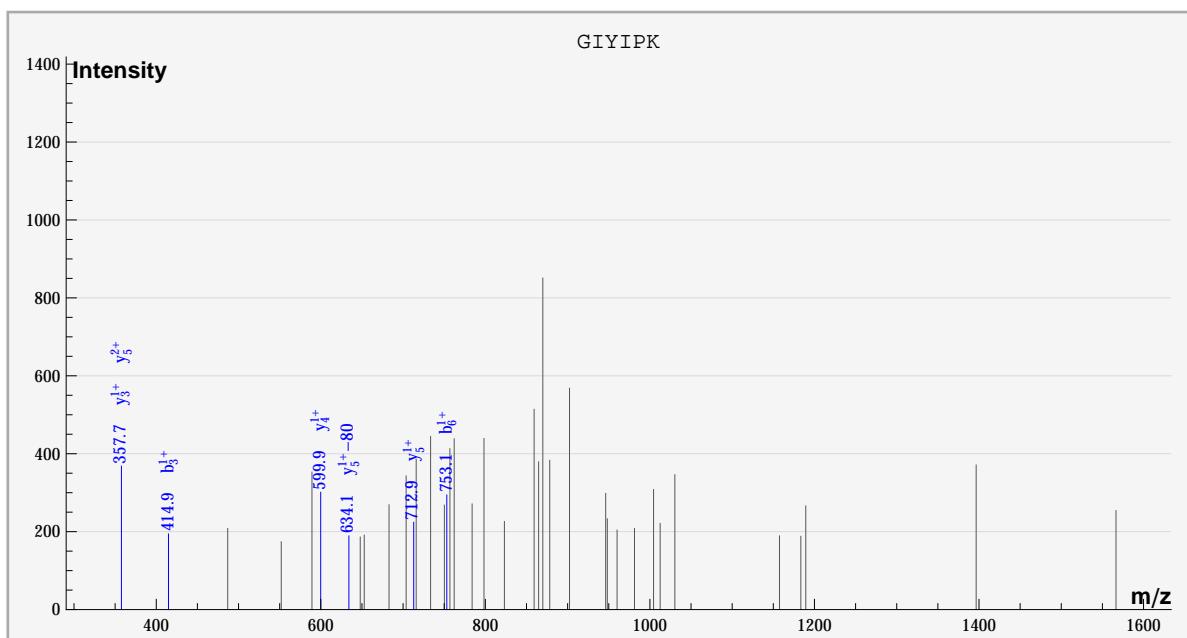
♯	*b*	*b**		♯	*y*	*y**		**P**	**P***
G	1								
I	2			5	✓	✓			
Y	3	✓		4	✓				
I	4			3	✓				
P	5			2					
K	6	✓		1					
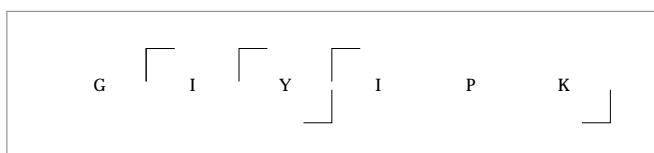
dbValid true LSDKVNNLVTDSR PHOS(1) 2. 771. −0.128038 5.01283 100. ? 2988.
S_Acido_new%gi|68567896|gb|AAY80825.1| LSDKVNNLVTDSR%:::::::::::PHOS::%sample_2%cmpd_1601
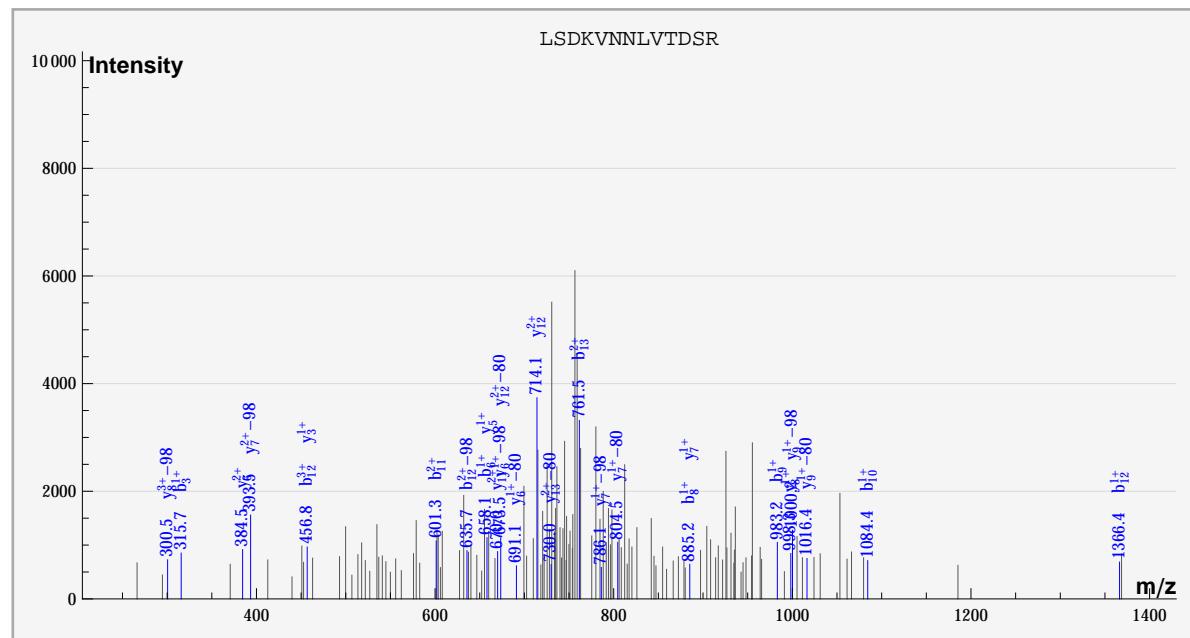
	♯	b	b*		♯	y	y*		P	P*
L	1									✓
S	2				12	✓	✓			
D	3	✓			11	✓				
K	4				10					
V	5				9		✓			
N	6	✓			8	✓	✓			
N	7				7	✓	✓			
L	8	✓			6	✓	✓			
V	9	✓			5	✓				
T	10	✓			4					
D	11	✓			3	✓				
S	12	✓	✓		2					
R	13	✓			1					

⌐L ⌐S ⌐D⌐ K ⌐V ⌐N⌐ N ⌐L⌐ V⌐ T⌐ D⌐ S⌐ R⌐

dbValid true DNLSSR PHOS(1) 1. 772. −0.696745 5.22045 100. ? 2892.
S_Acido_new%gi|68566875|gb|AAY79804.1| DNLSSR%::::PHOS:::%sample_2%cmpd_1513
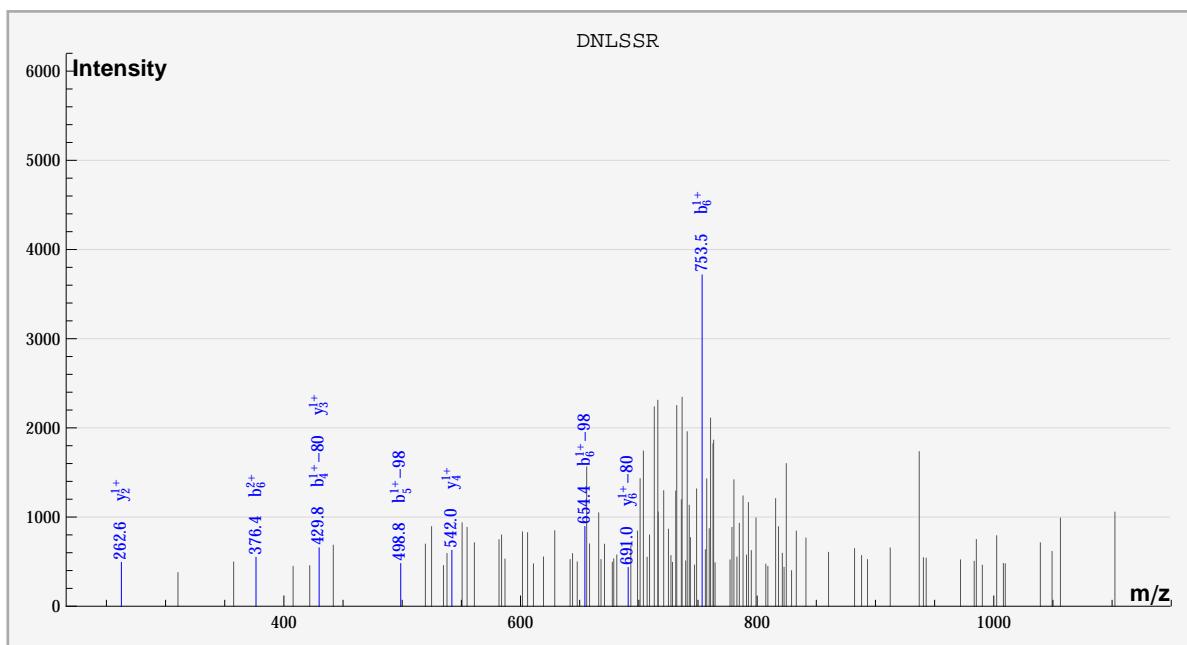

	#	*b*	*b**	#	*y*	*y**	**P**	**P***
D	1							✓
N	2			5				
L	3			4	✓			
S	4		✓	3	✓			
S	5		✓	2	✓			
R	6	✓	✓	1				
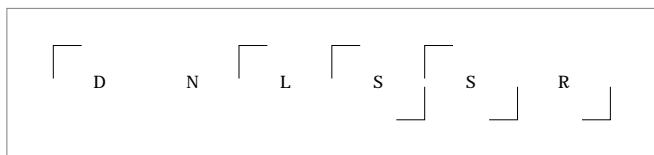
dbValid true TLNTDK PHOS(1) 1. 773. −1.6716 5.47464 100. ? 1728.
 S_Acido_new%gi|68568546|gb|AAY81475.1| TLNTDK%::::PHOS:::%sample_2%cmpd_450
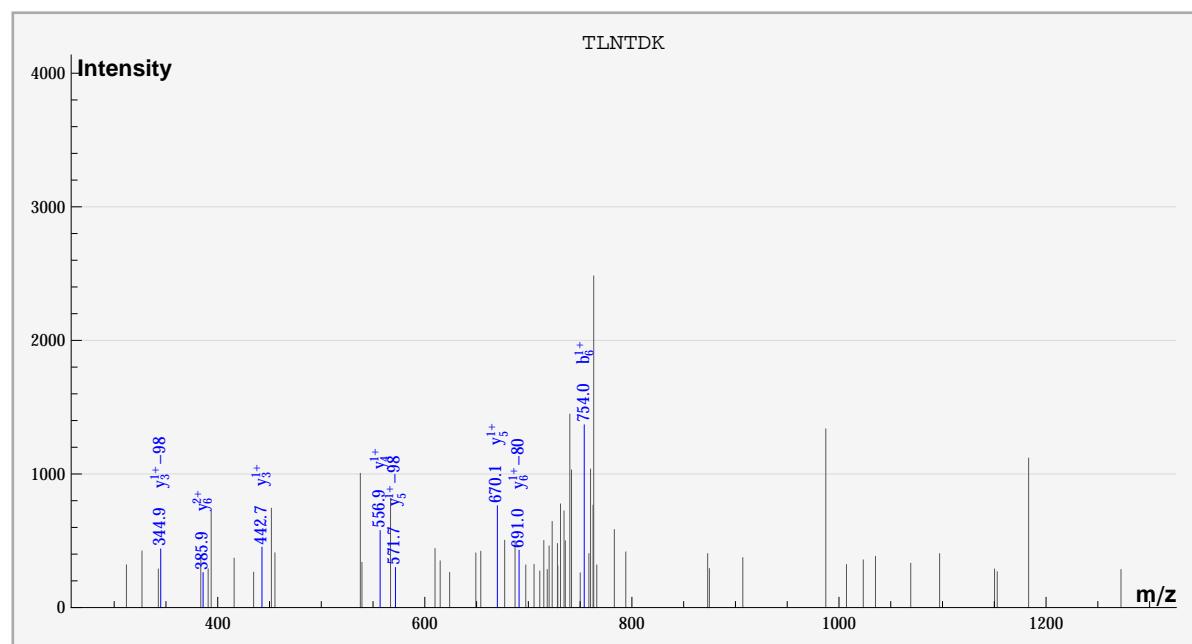

	♯	b	b*	♯	y	y*	P	P*
T	1						✓	✓
L	2			5	✓	✓		
N	3			4	✓			
T	4			3	✓	✓		
D	5			2				
K	6	✓		1				
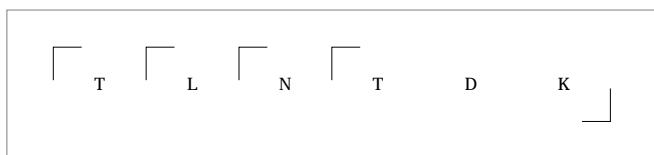
dbValid true FVIGTR PHOS(1) 1. 774. −1.62472 5.20109 100. ? 1890.
S_Acido_new%gi|68568488|gb|AAY81417.1| FVIGTR%:::::PHOS::%sample_2%cmpd_563
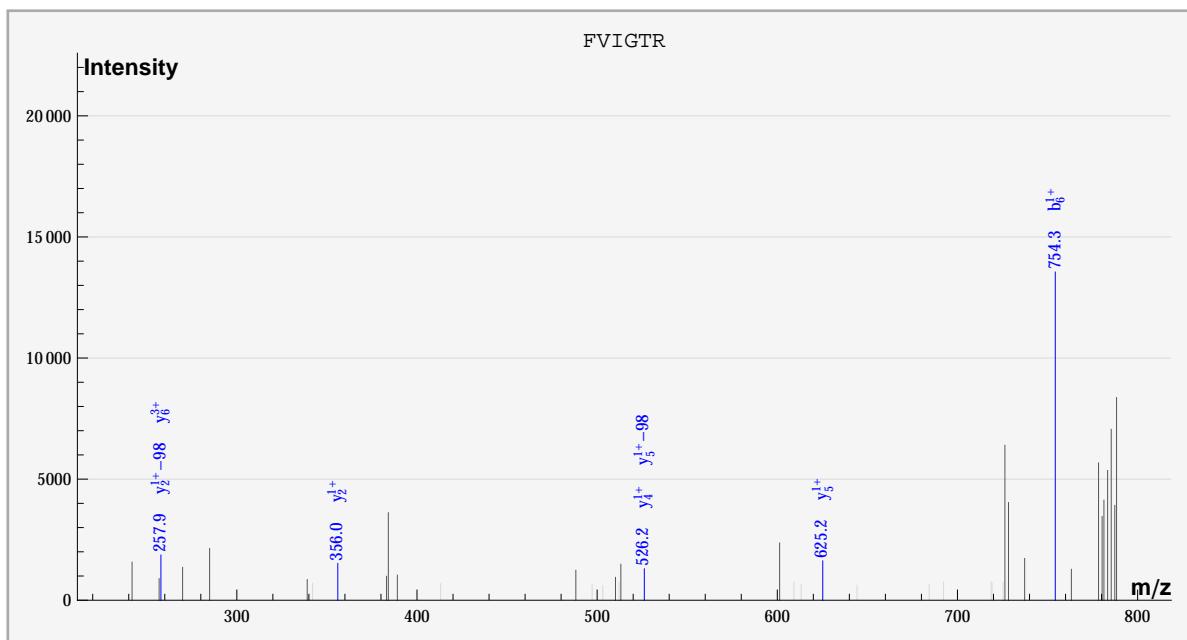
	#	b	b*	#	y	y*	P	P*
F	1						✓	
V	2			5	✓	✓		
I	3			4	✓			
G	4			3				
T	5			2	✓	✓		
R	6	✓		1				
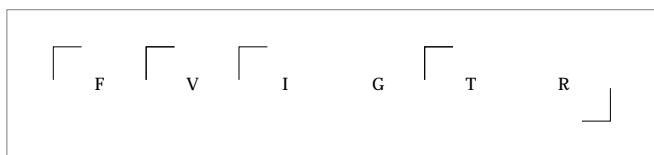
dbValid   true   YDWFSEMRKK   PHOS(2)   2.   774.   1.30093   5.5429   100.   ?   402.
  S_Acido_new%gi|68568446|gb|AAY81375.1| YDWFSEMRKK%:PHOS::::PHOS::::::%sample_2%cmpd_2486
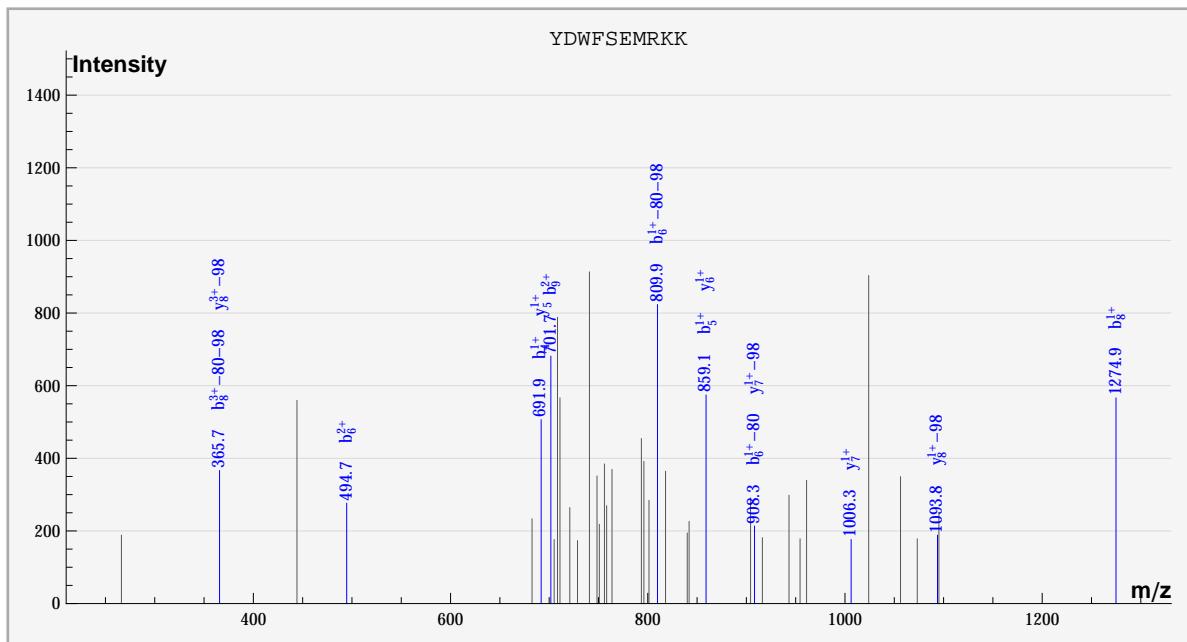
| ♯	b	b*	♯	y	y*	P	P*
Y	1						
D	2		9				
W	3		8		✓		
F	4	✓	7	✓	✓		
S	5	✓	6	✓			
E	6	✓	✓	5	✓		
M	7		4				
R	8	✓	✓	3			
K	9	✓	2				
K	10		1				

dbValid true KYNVDYEYFTK PHOS(1) 2. 774. 1.33415 5.37505 100. ? 4470.
S_Acido_new%gi|68567767|gb|AAY80696.1| KYNVDYEYFTK%::::::::PHOS::::%sample_2%cmpd_2958
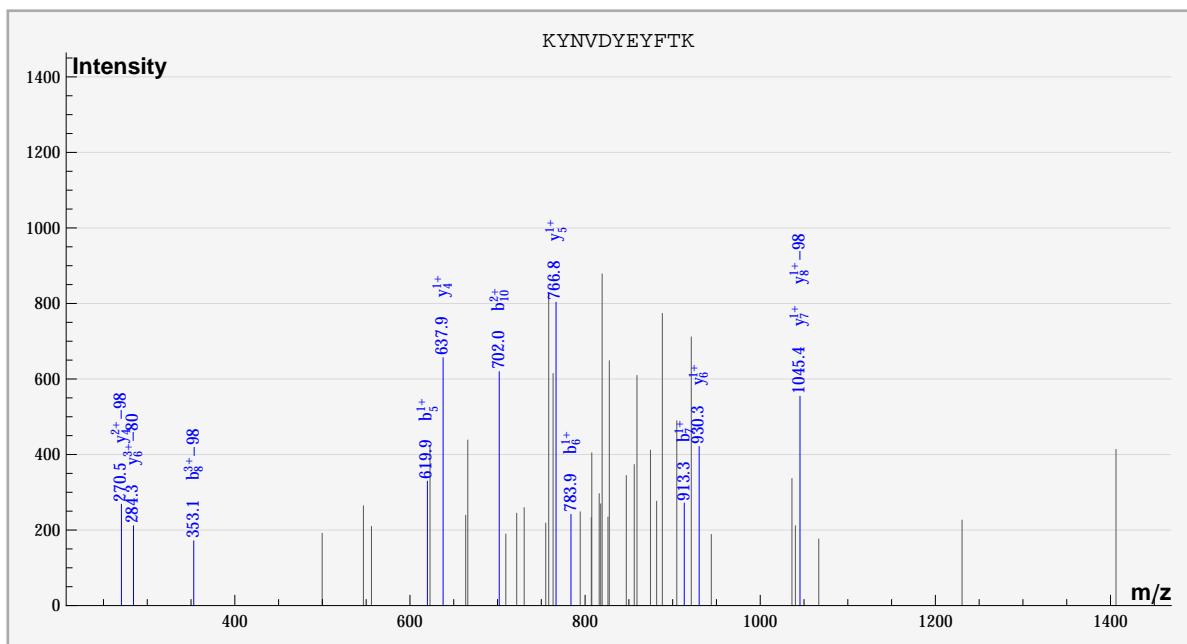
	#	b	b*	#	y	y*	P	P*
K	1							
Y	2			10				
N	3			9				
V	4			8		✓		
D	5	✓		7	✓			
Y	6	✓		6	✓	✓		
E	7	✓		5	✓			
Y	8		✓	4	✓	✓		
F	9			3				
T	10	✓		2				
K	11			1				

K Y N V D Y E Y F T K

dbValid true GVLDEY PHOS(1) 1. 775. 0.290945 6.64986 100. ? 1524.
S_Acido_new%gi|68567823|gb|AAY80752.1| GVLDEY%::::::PHOS:%sample_2%cmpd_264

GVLDEY
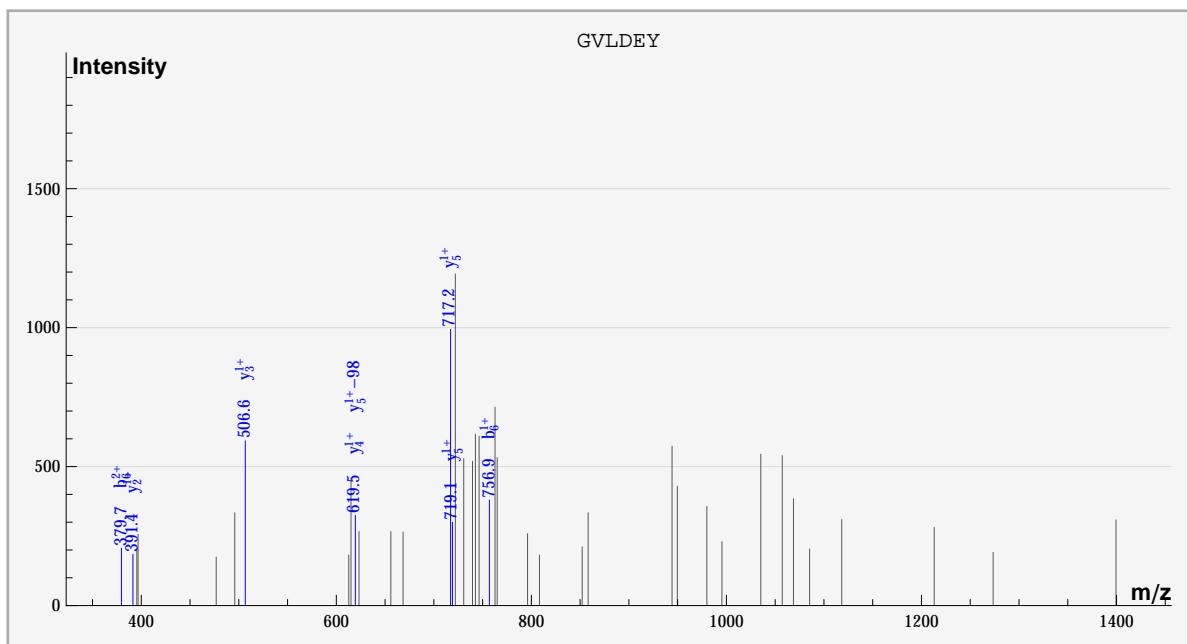
	♯	b	b*	♯	y	y*	P	P*
G	1							
V	2			5	✓	✓		
L	3			4	✓			
D	4			3	✓			
E	5			2	✓			
Y	6	✓		1				

G V L D E Y
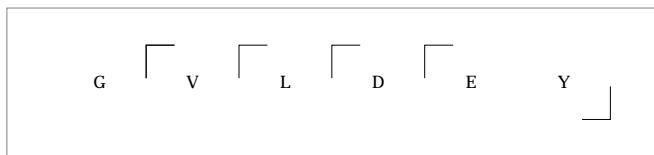
dbValid true EMTKVLNSTKR PHOS(3) 2. 775. −1.18953 5.54361 100. ? 1668.
S_Acido_new%gi|68568511|gb|AAY81440.1| EMTKVLNSTKR%:::PHOS:::::PHOS:PHOS:::%sample_2%cmpd_396

|	♯	b	b*	♯	y	y*	P	P*
E	1							✓
M	2			10	✓	✓		
T	3			9		✓		
K	4			8		✓		
V	5	✓		7	✓	✓		
L	6		✓	6	✓	✓		
N	7	✓	✓	5	✓			
S	8			4	✓			
T	9	✓	✓	3				
K	10		✓	2				
R	11		✓	1				

dbValid   true   KRGLSLVTDGNTK   PHOS(2)   2.   775.   −0.137263   5.68998   100.   ?   2760.
  S_Acido_new%gi|68566826|gb|AAY79755.1| KRGLSLVTDGNTK%:::::PHOS::::::::PHOS::%sample_2%cmpd_1394

KRGLSLVTDGNTK

	♯	b	b*	♯	y	y*	P	P*
K	1							✓
R	2			12	✓	✓		
G	3			11		✓		
L	4			10	✓	✓		
S	5			9	✓	✓		
L	6	✓		8				
V	7		✓	7	✓	✓		
T	8	✓		6	✓			
D	9	✓		5				
G	10	✓	✓	4				
N	11			3		✓		
T	12	✓		2				
K	13	✓	✓	1				

⌐K ⌐R ⌐G ⌐L ⌐S L⌐V⌐T⌐D⌐ G⌐N T⌐K⌐

dbValid   true   LTKARIAAFGSTR   PHOS(2)   2.   775.   1.37581   5.65858   100.   ?   3516.
S_Acido_new%gi|68568681|gb|AAY81610.1| LTKARIAAFGSTR%:::::::::::PHOS:PHOS::%sample_2%cmpd_1966

LTKARIAAFGSTR
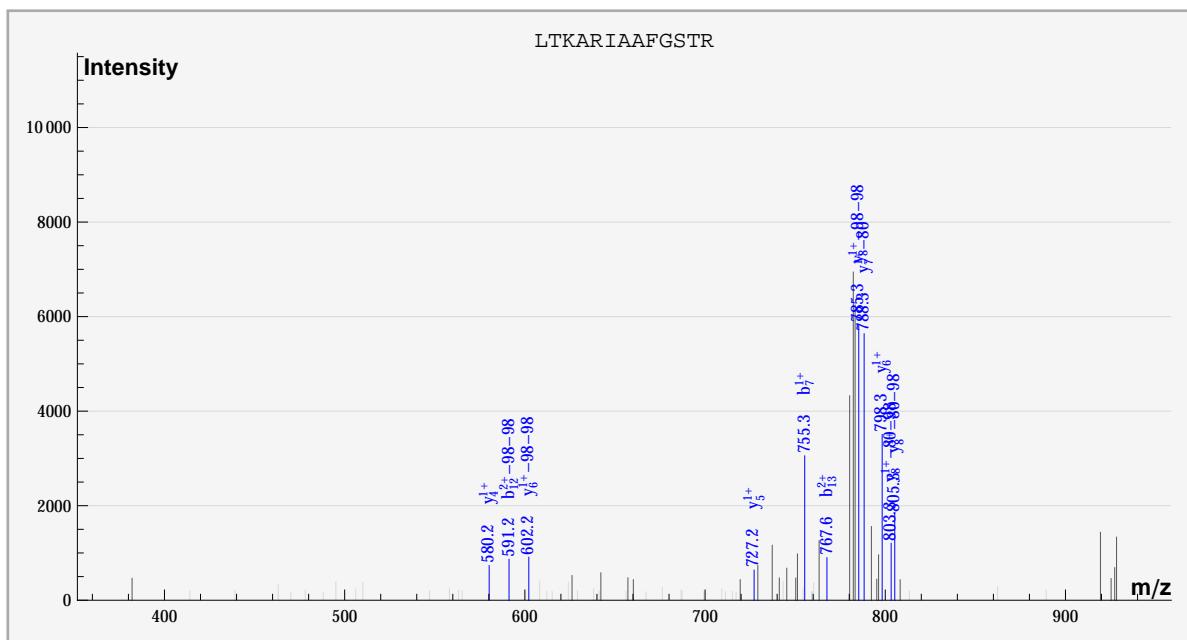
	♯	b	b*	♯	y	y*	P	P*
L	1							
T	2			12				
K	3			11				
A	4			10				
R	5			9				
I	6			8		✓		
A	7	✓		7		✓		
A	8			6	✓	✓		
F	9			5	✓			
G	10			4	✓			
S	11			3				
T	12		✓	2				
R	13	✓		1				

L   T   K   A   R   ⌈I   ⌈A⌋   A   ⌈F   ⌈G   S   T⌋   R⌋

dbValid true VVFSQISAESSYR PHOS(1) 2. 775. 1.85578 5.52252 100. ? 3888.
  S_Acido_new%gi|68568383|gb|AAY81312.1| VVFSQISAESSYR%::::PHOS:::::::::%sample_2%cmpd_2426
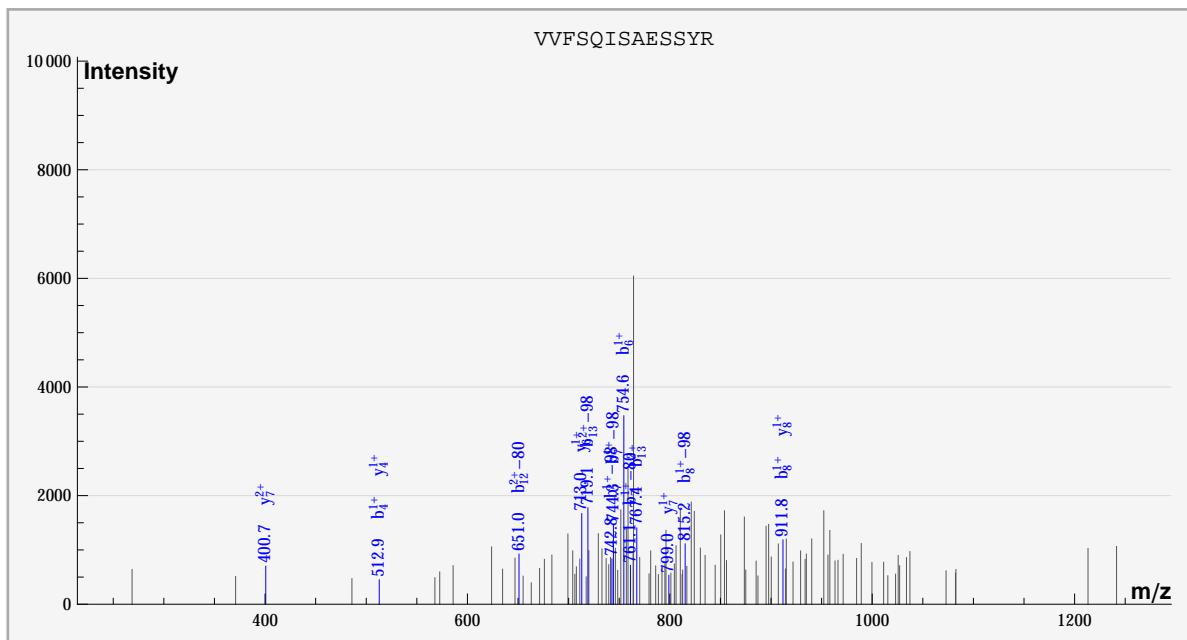
	#	b	b*	#	y	y*	P	P*
V	1							
V	2			12				
F	3			11				
S	4	✓		10				
Q	5			9				
I	6	✓		8		✓		
S	7		✓	7		✓		
A	8	✓	✓	6		✓		
E	9			5				
S	10			4		✓		
S	11			3				
Y	12		✓	2				
R	13	✓	✓	1				

V   V   F   S⌐ Q ⌐I ⌐S ⌐A⌐ E ⌐S   S   Y⌐ R⌐

dbValid   true   RIYMKPIEISK   Oxidation_M(1),PHOS(2)   2.   776.   1.36352   5.19153   100.   ?   1542.
S_Acido_new%gi|68566754|gb|AAY79683.1| RIYMKPIEISK%:::PHOS:Oxidation_M::::::PHOS::%sample_2%cmpd_264
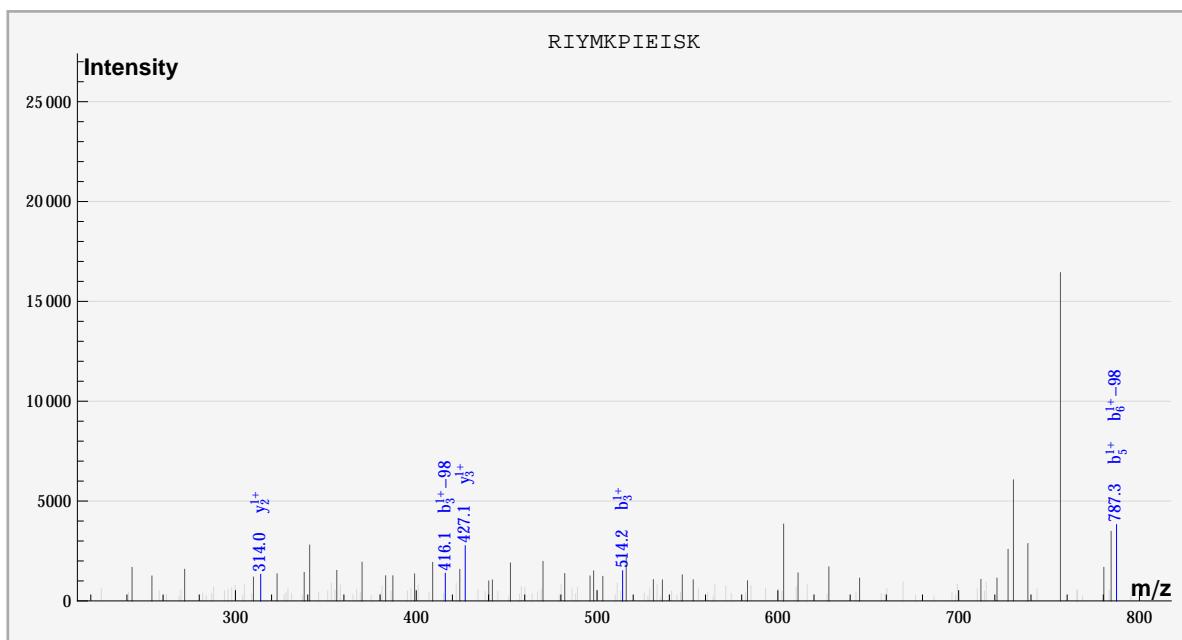
RIYMKPIEISK

	#	b	b*	#	y	y*	P	P*
R	1							
I	2			10				
Y	3	✓	✓	9				
M	4			8				
K	5	✓		7				
P	6		✓	6				
I	7			5				
E	8			4				
I	9			3	✓			
S	10			2	✓			
K	11			1				

R   I   Y   M   K   P   I   E   I   S   K

dbValid true IKDLSILHVNSTK PHOS(1) 2. 776. −1.58674 5.01588 100. ? 2418.
S_Acido_new%gi|68568204|gb|AAY81133.1| IKDLSILHVNSTK%::::::::::::PHOS::%sample_2%cmpd_1018


♯	b	b*	♯	y	y*	P	P*
I	1						
K	2		12				
D	3		11				
L	4		10				
S	5		9				
I	6		8				
L	7	✓	7		✓		
H	8		6	✓	✓		
V	9		5		✓		
N	10		4	✓			
S	11		3				
T	12		2				
K	13	✓	1				

I K D L S I ⌐L⌐ H ⌐V⌐ N S T K⌐
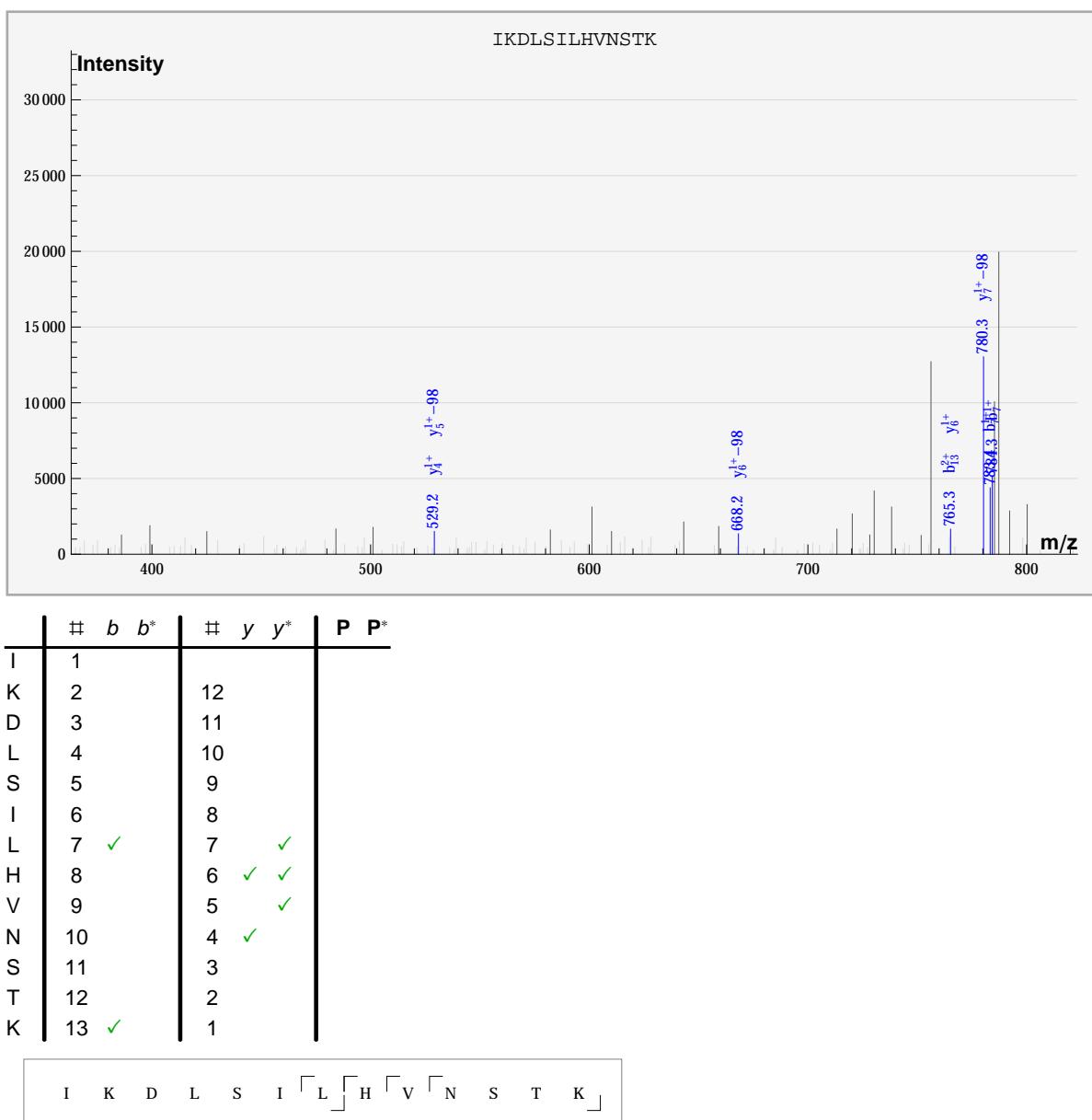
dbValid true MTSDLK PHOS(1) 1. 776. −1.68969 5.05379 100. ? 3036.
   S_Acido_new%gi|68567355|gb|AAY80284.1| MTSDLK%:::PHOS::::%sample_2%cmpd_1554
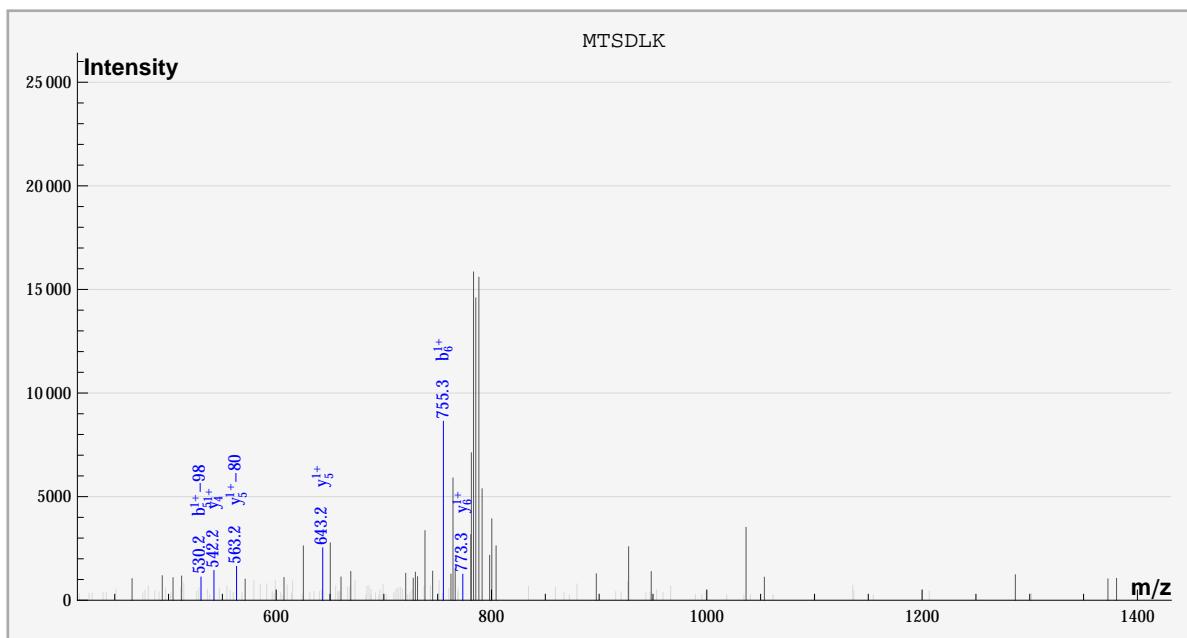
	#	*b*	*b**		#	*y*	*y**		**P**	**P***
M	1								✓	
T	2				5	✓	✓			
S	3				4	✓				
D	4				3					
L	5		✓		2					
K	6	✓			1					

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
Y	1							
H	2			10				
I	3	✓		9				
I	4			8				
P	5		✓	7				
D	6		✓	6		✓		
L	7			5	✓	✓		
F	8			4				
L	9			3				
T	10			2				
R	11	✓		1				
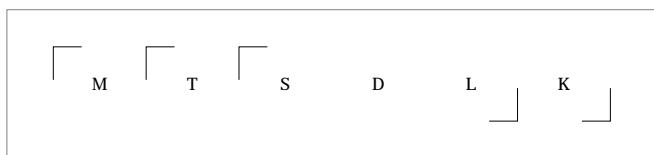
Y H I I P D L F L T R

dbValid   true   YHIIPDLFLTR   PHOS(2)   2.   776.   −1.64344   5.30206   100.   ?   3156.
S_Acido_new%gi|68567709|gb|AAY80638.1| YHIIPDLFLTR%:PHOS:::::::::PHOS::%sample_2%cmpd_1657

YHIIPDLFLTR

	♯	b	b*	♯	y	y*	P	P*
Y	1							
H	2			10				
I	3	✓		9				
I	4		✓	8				
P	5		✓	7				
D	6		✓	6		✓		
L	7			5	✓	✓		
F	8			4				
L	9			3				
T	10			2				
R	11	✓		1				

Y   H   I   I   P   D   L   F   L   T   R

dbValid true KRGLSLVTDGNTK PHOS(2) 2. 776. −1.13726 5.0766 100. ? 3270.
 S_Acido_new%gi|68566826|gb|AAY79755.1| KRGLSLVTDGNTK%:::::PHOS:::::::PHOS::%sample_2%cmpd_1861

	♯	b	b*	♯	y	y*	P	P*
K	1							✓
R	2			12		✓		
G	3	✓		11				
L	4			10				
S	5	✓	✓	9		✓		
L	6	✓	✓	8	✓	✓		
V	7		✓	7	✓	✓		
T	8	✓	✓	6		✓		
D	9			5	✓			
G	10			4				
N	11		✓	3				
T	12	✓	✓	2				
K	13	✓	✓	1				

dbValid true EFNLTMVIDYQT PHOS(1) 2. 777. 0.333297 5.01539 100. ? 2544.
   S_Acido_new%gi|68566893|gb|AAY79822.1| EFNLTMVIDYQT%::::::::::::PHOS:%sample_2%cmpd_1196
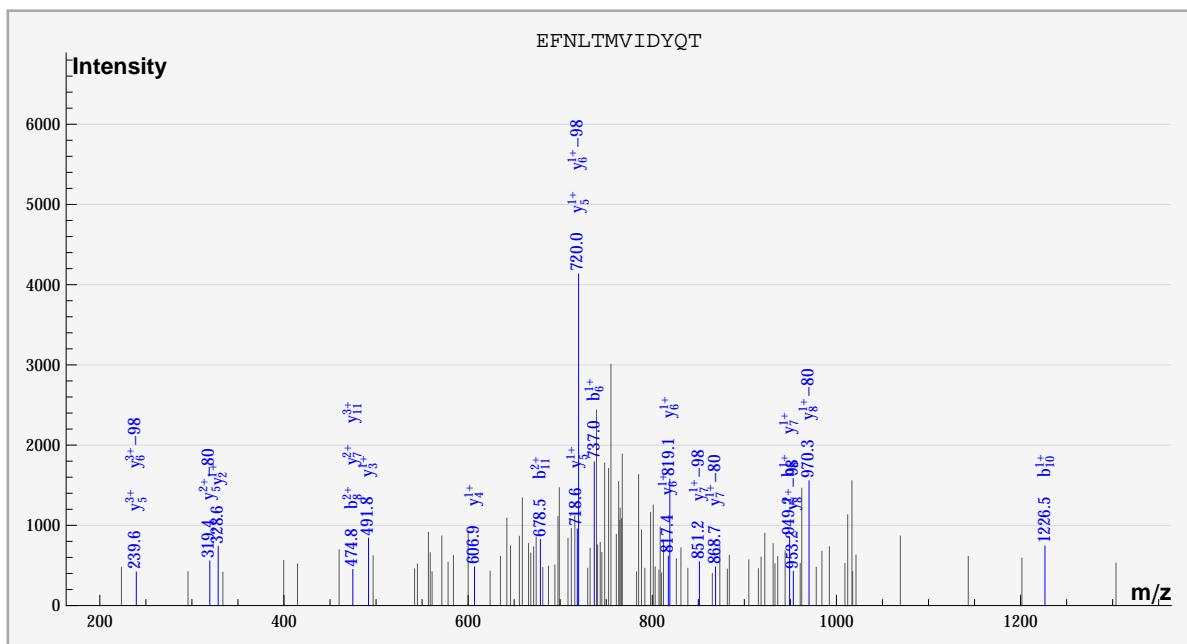
	♯	b	b*	♯	y	y*	P	P*
E	1							
F	2			11	✓			
N	3			10				
L	4			9				
T	5			8		✓		
M	6	✓		7	✓	✓		
V	7			6	✓	✓		
I	8	✓		5	✓	✓		
D	9			4	✓			
Y	10	✓		3	✓			
Q	11	✓		2	✓			
T	12			1				

E ⌈F N L ⌈T ⌈M⌋ V ⌈I⌋ D ⌈Y⌋ Q⌋ T

dbValid true EGKYTGTEIIER PHOS(2) 2. 777. 1.32565 5.46086 100. ? 3024.
S_Acido_new%gi|68568391|gb|AAY81320.1| EGKYTGTEIIER%::::PHOS:PHOS::::::::%sample_2%cmpd_1545

	♯	b	b*	♯	y	y*	P	P*
E	1							
G	2			11				
K	3			10				
Y	4			9				
T	5	✓	✓	8				
G	6	✓		7				
T	7		✓	6	✓			
E	8		✓	5	✓			
I	9			4				
I	10			3				
E	11			2				
R	12	✓		1				

E G K Y T G T E I I E R
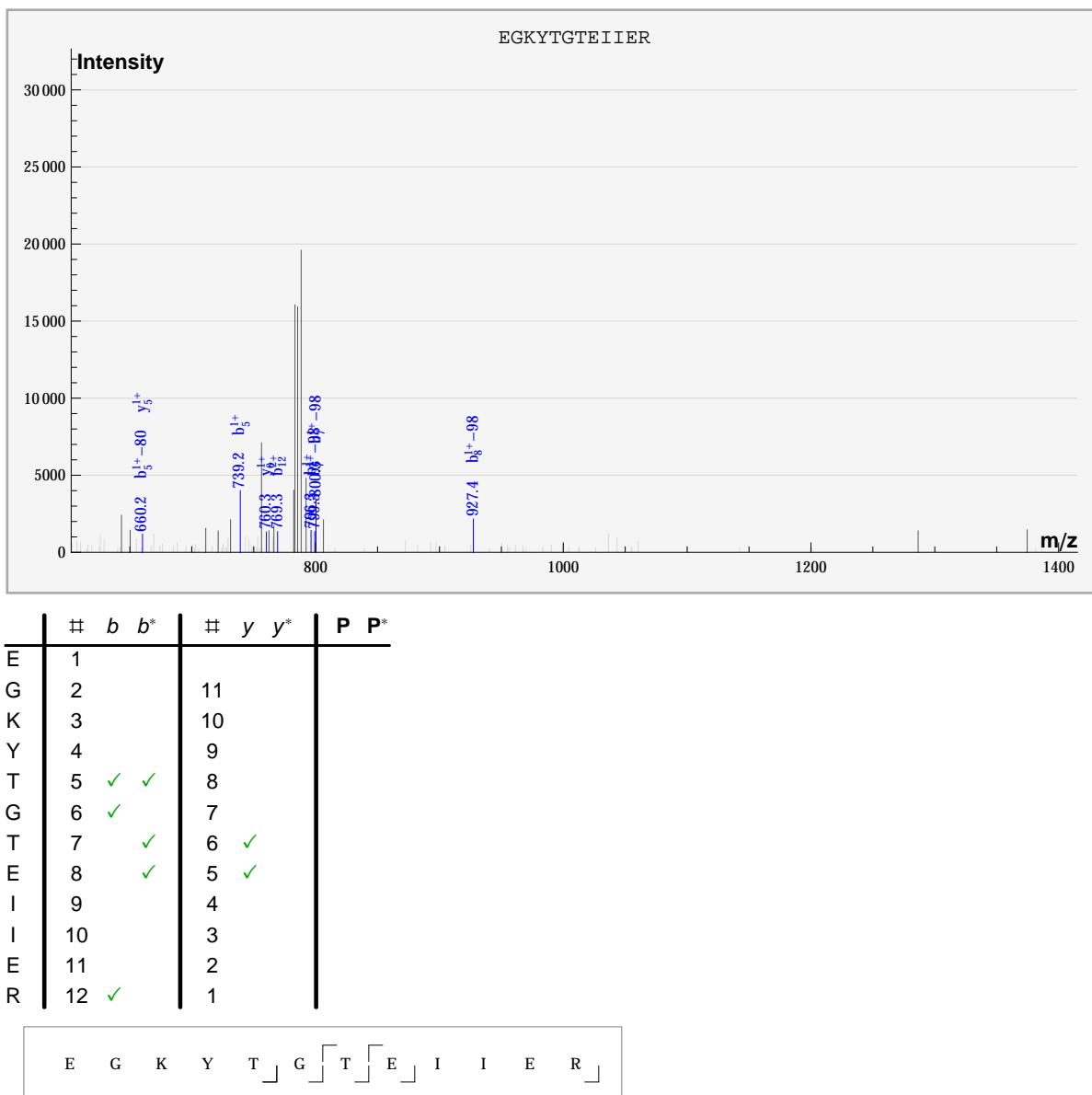
dbValid true GLNTSK PHOS(2) 1. 778. 1.27358 5.22968 100. ? 2298.
S_Acido_new%gi|68567384|gb|AAY80313.1| GLNTSK%::::PHOS:PHOS::%sample_2%cmpd_975

GLNTSK
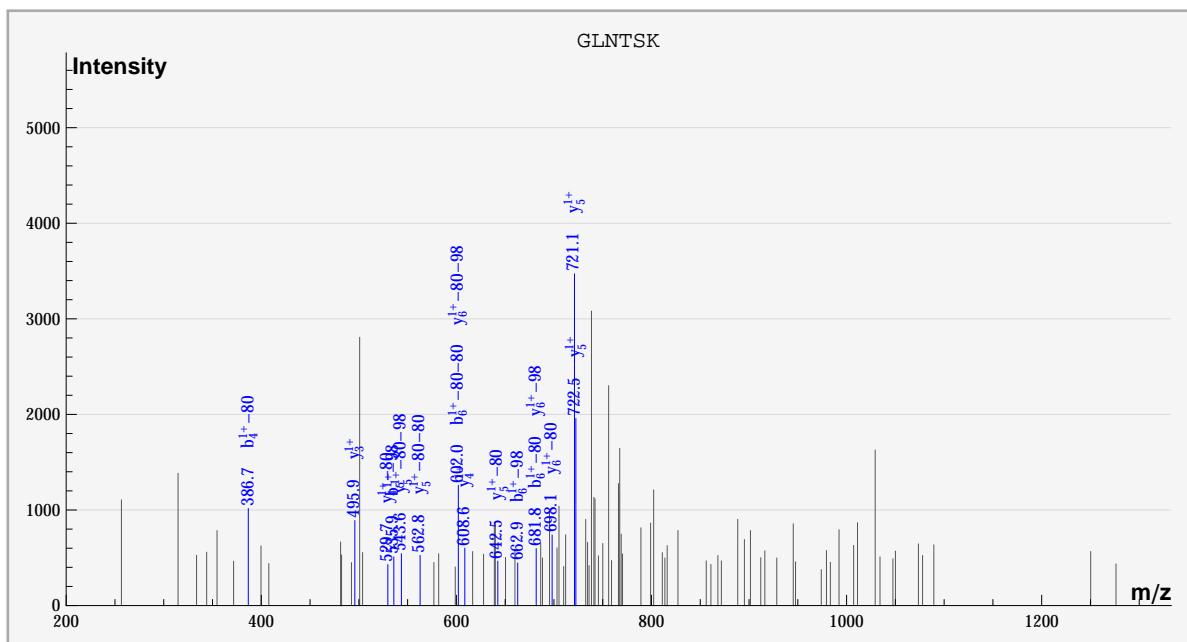
	♯	b	b*	♯	y	y*	P	P*
G	1							✓
L	2			5	✓	✓		
N	3			4	✓	✓		
T	4		✓	3	✓			
S	5		✓	2				
K	6		✓	1				
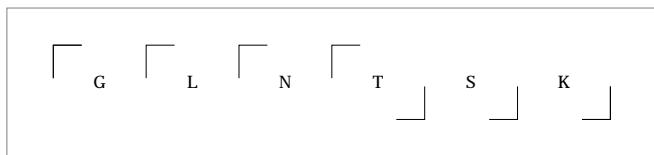
dbValid   true   STMDGAGVKLYR   Oxidation_M(1),PHOS(3)   2.   778.
  −0.721013   5.09223   100.   ?   2892.   S_Acido_new%gi|68568654|gb|AAY81583.1|
    STMDGAGVKLYR%:PHOS:PHOS:Oxidation_M::::::::PHOS::%sample_2%cmpd_1519

	#	b	b*	#	y	y*	P	P*
S	1							✓
T	2		✓	11				
M	3	✓	✓	10				
D	4		✓	9	✓			
G	5		✓	8	✓	✓		
A	6	✓	✓	7	✓			
G	7	✓	✓	6	✓	✓		
V	8		✓	5	✓	✓		
K	9		✓	4	✓	✓		
L	10	✓	✓	3	✓	✓		
Y	11			2				
R	12	✓	✓	1				

S   T   M   D   G   A   G   V   K   L   Y   R

dbValid true YFGKEYAQQIVK PHOS(1) 2. 778. −0.626393 5.26701 100. ? 354.
S_Acido_new%gi|68567764|gb|AAY80693.1| YFGKEYAQQIVK%::::::PHOS::::::%sample_2%cmpd_2086
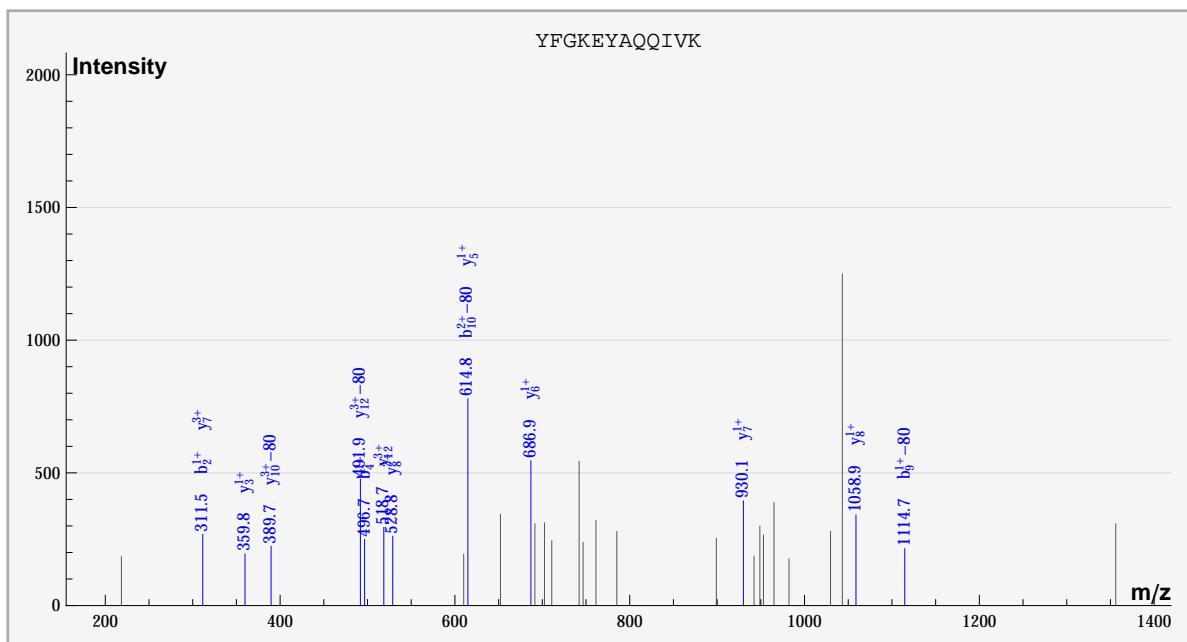
	♯	*b*	*b**		♯	*y*	*y**		**P**	**P***
Y	1								✓	✓
F	2	✓			11					
G	3				10		✓			
K	4	✓			9					
E	5				8	✓				
Y	6				7	✓				
A	7				6	✓				
Q	8				5	✓				
Q	9		✓		4					
I	10		✓		3	✓				
V	11				2					
K	12				1					

Y   F   G   K   E   Y   A   Q   Q   I   V   K

dbValid true DLNSLVIQQTNTK PHOS(1) 2. 779. −1.61783 5.09123 100. ? 2748.
   S_Acido_new%gi|68567551|gb|AAY80480.1| DLNSLVIQQTNTK%::::::::::::PHOS::%sample_2%cmpd_1388
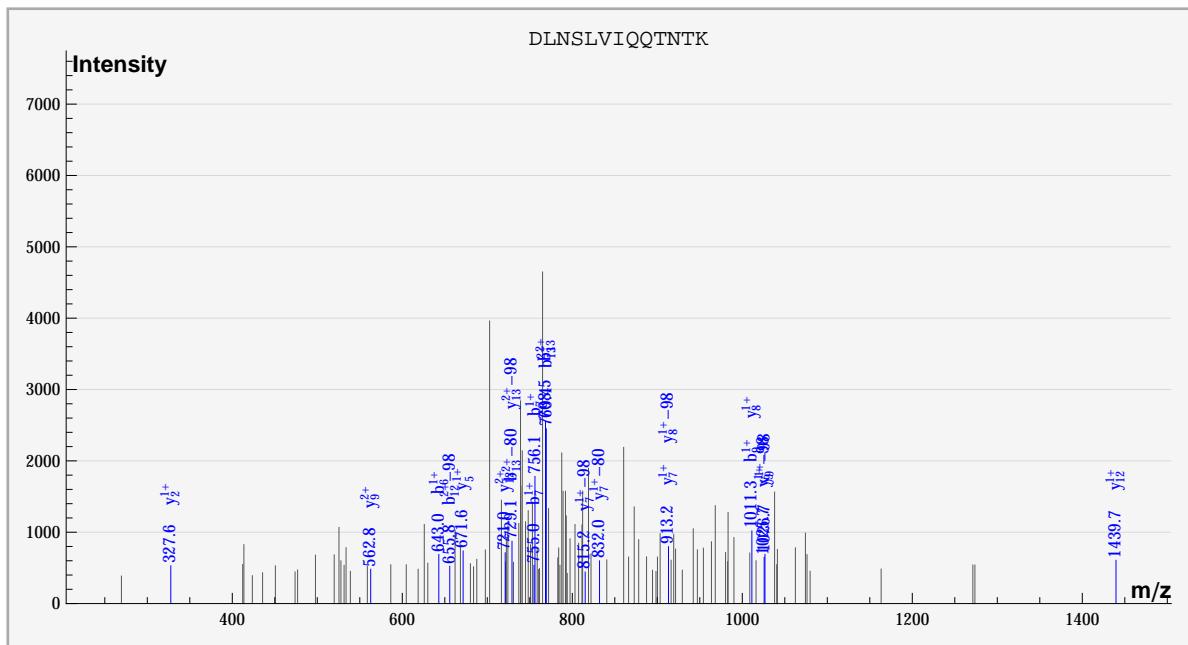
	#	b	b*	#	y	y*	P	P*
D	1							✓
L	2			12	✓			
N	3			11				
S	4			10				
L	5			9	✓	✓		
V	6	✓		8	✓	✓		
I	7	✓		7	✓	✓		
Q	8			6				
Q	9	✓		5	✓			
T	10			4				
N	11			3				
T	12		✓	2	✓			
K	13	✓	✓	1				

┌D ┌L N S ┌L ┌V ┌I ┘ Q ┌Q ┘ T N ┌T ┘ K ┘

dbValid true STMDGAGVKLYR Oxidation_M(1),PHOS(3) 2. 779.
−1.72101 5.14297 100. ? 2880. S_Acido_new%gi|68568654|gb|AAY81583.1|
STMDGAGVKLYR%:PHOS:PHOS:Oxidation_M::::::::PHOS::%sample_2%cmpd_1510

	#	b	b*	#	y	y*	P	P*
S	1							✓
T	2		✓	11		✓		
M	3	✓		10				
D	4	✓	✓	9		✓		
G	5			8				
A	6	✓	✓	7		✓		
G	7	✓	✓	6	✓	✓		
V	8	✓	✓	5	✓	✓		
K	9			4	✓			
L	10		✓	3	✓	✓		
Y	11		✓	2				
R	12	✓	✓	1				

S T M D G A G V K L Y R

dbValid true IDDLVAASALKTEK PHOS(1) 2. 779. −1.60527 5.21582 100. ? 2982.
  S_Acido_new%gi|68567802|gb|AAY80731.1| IDDLVAASALKTEK%:::::::::::PHOS:::%sample_2%cmpd_1599
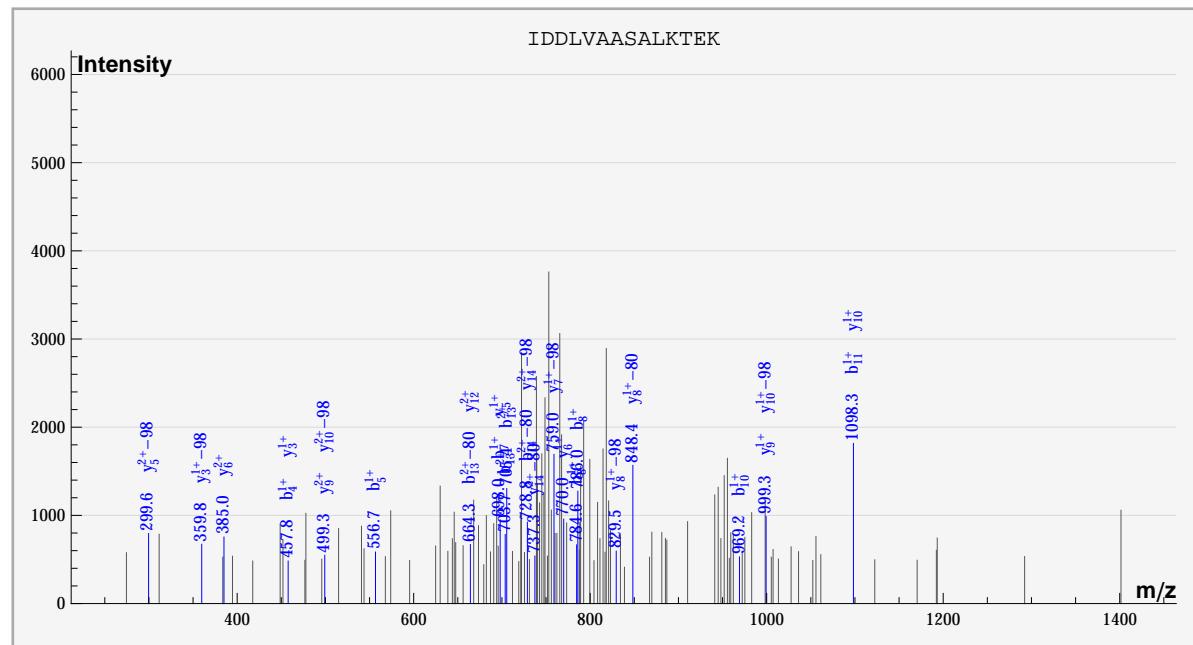
	♯	b	b*	♯	y	y*	P	P*
I	1							✓
D	2			13				
D	3			12	✓			
L	4	✓		11				
V	5	✓		10	✓	✓		
A	6			9	✓			
A	7	✓		8		✓		
S	8	✓		7		✓		
A	9			6	✓			
L	10	✓		5	✓	✓		
K	11	✓		4				
T	12			3	✓	✓		
E	13	✓	✓	2				
K	14		✓	1				

I D D L V A A S A L K T E K

dbValid true NSLHVK PHOS(1) 1. 779. −1.63455 5.0968 100. ? 3114.
S_Acido_new%gi|68566747|gb|AAY79676.1| NSLHVK%::PHOS:::::%sample_2%cmpd_1721
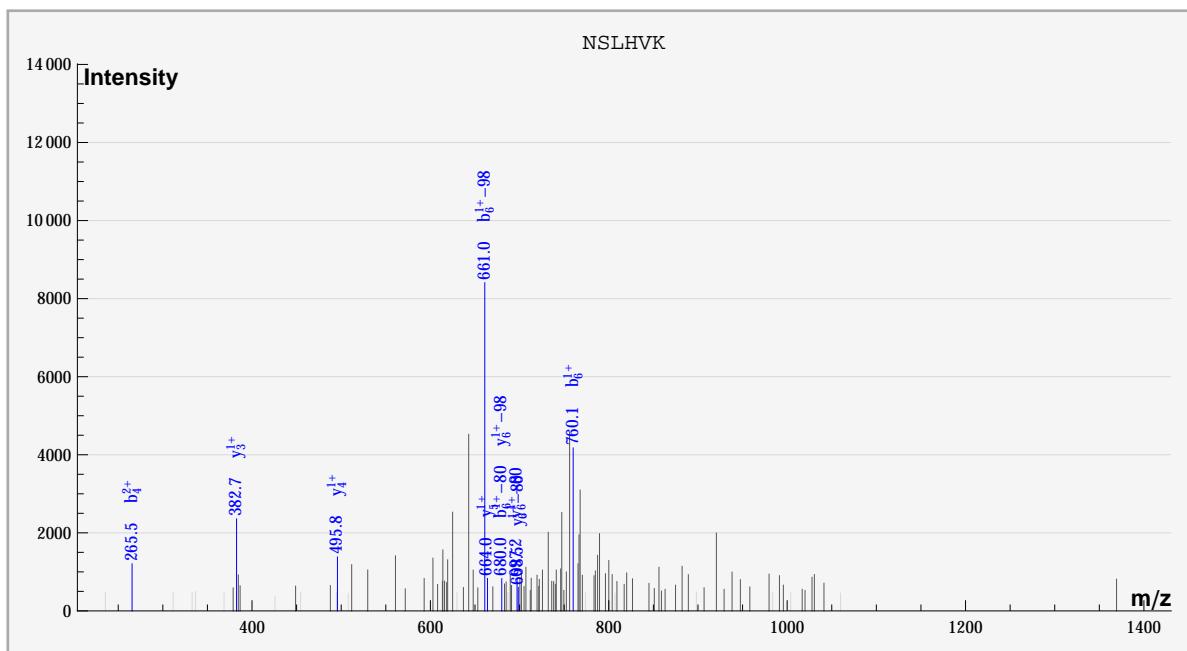
	#	b	b*	#	y	y*	P	P*
N	1							✓
S	2			5	✓			
L	3			4	✓			
H	4	✓		3	✓			
V	5			2				
K	6	✓	✓	1				
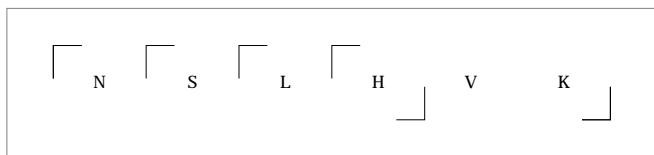
dbValid true DLTVYFYRREK PHOS(1) 2. 787. −1.62332 5.24521 100. ? 3066.
  S_Acido_new%gi|68567891|gb|AAY80820.1| DLTVYFYRREK%:::PHOS::::::::::%sample_0%cmpd_1513
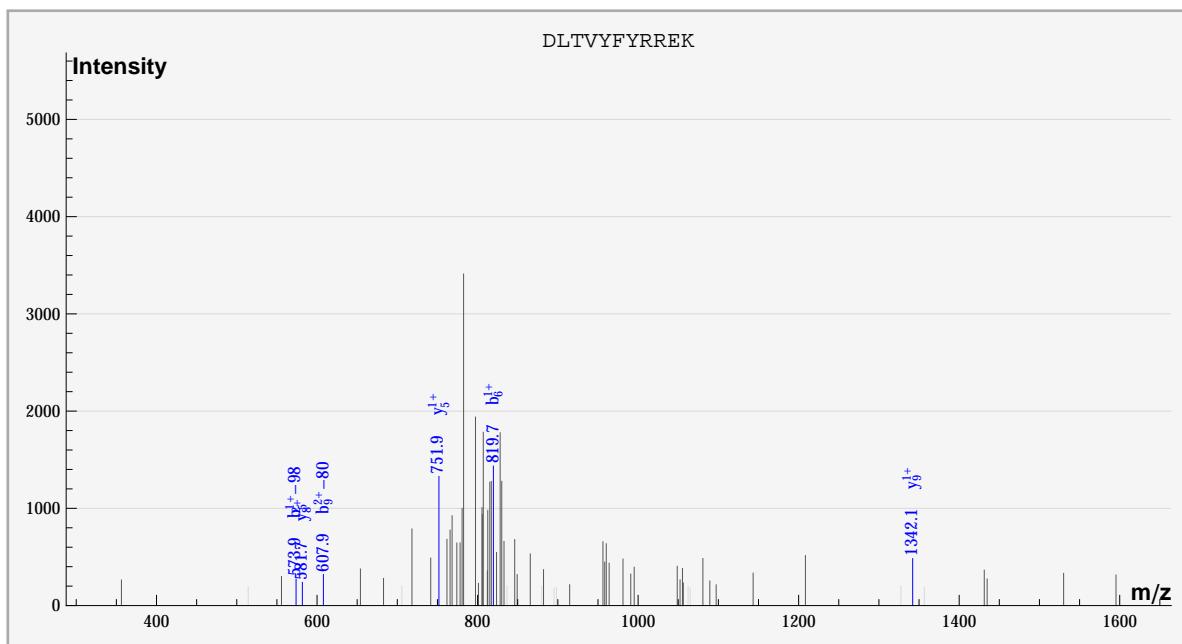
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
D	1							
L	2			10				
T	3			9	✓			
V	4			8	✓			
Y	5		✓	7				
F	6	✓		6				
Y	7			5	✓			
R	8			4				
R	9		✓	3				
E	10			2				
K	11			1				

D L ⌐T ⌐V Y⌐ F⌐ Y R R⌐ E K

dbValid true YMREFGLFEYR PHOS(1) 2. 794. 1.84416 5.06538 100. ? 2238.
  S_Acido_new%gi|68568187|gb|AAY81116.1| YMREFGLFEYR%:PHOS::::::::::%sample_1%cmpd_910
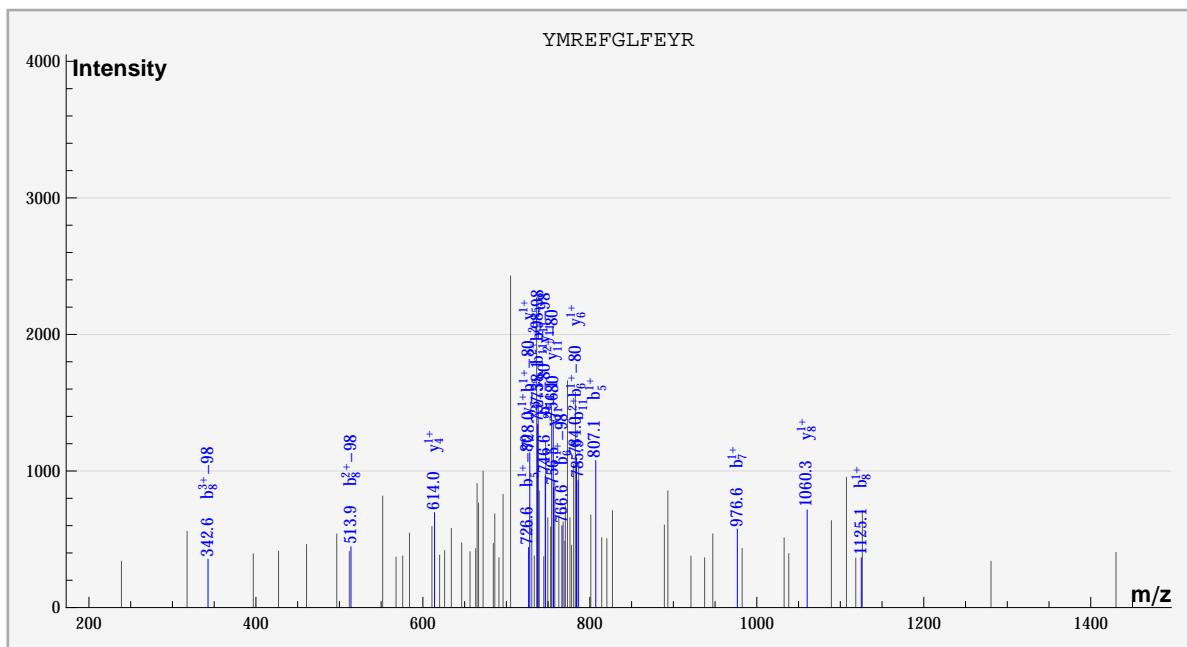
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
Y	1							✓
M	2			10				
R	3			9				
E	4			8	✓			
F	5	✓	✓	7				
G	6		✓	6	✓			
L	7	✓		5	✓			
F	8	✓	✓	4	✓			
E	9			3				
Y	10			2				
R	11	✓	✓	1				
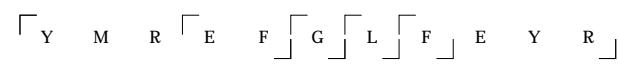
Y M R E F G L F E Y R
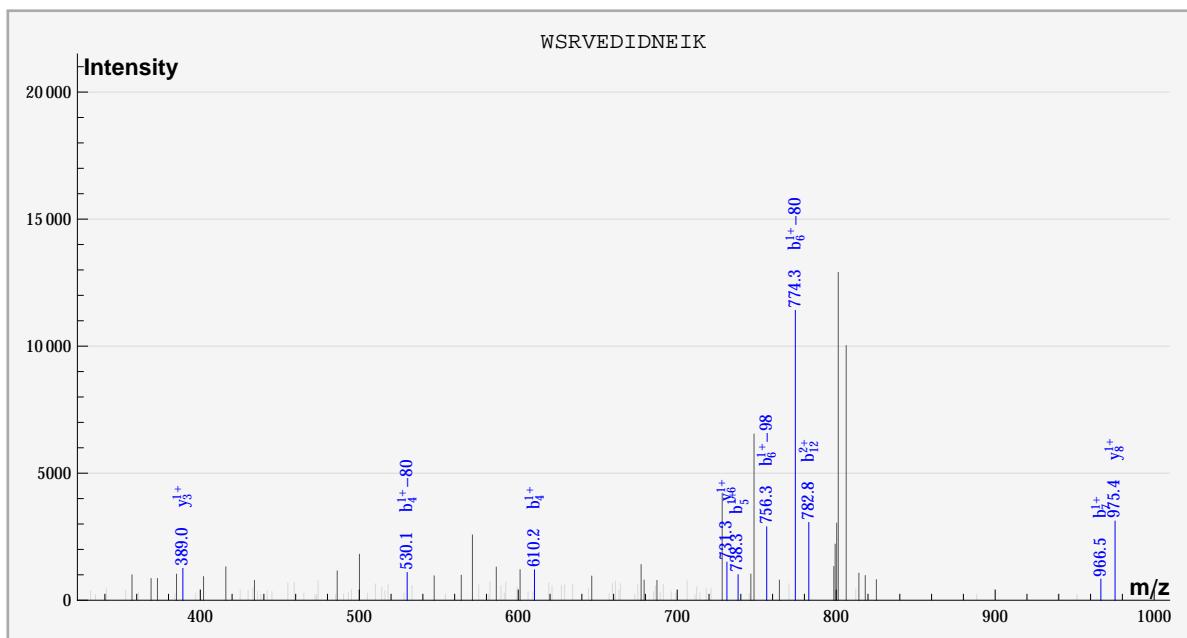
♯	b	b*	♯	y	y*	P	P*
W	1							
S	2			11				
R	3			10				
V	4	✓	✓	9				
E	5	✓		8	✓			
D	6		✓	7				
I	7	✓		6	✓			
D	8			5				
N	9			4				
E	10			3	✓			
I	11			2				
K	12	✓		1				

dbValid true GTEFQILTKTSRK PHOS(1) 2. 794. 0.908347 5.13084 100. ? 3090.
S_Acido_new%gi|68568285|gb|AAY81214.1| GTEFQILTKTSRK%::::::::::PHOS:::%sample_1%cmpd_1687

GTEFQILTKTSRK
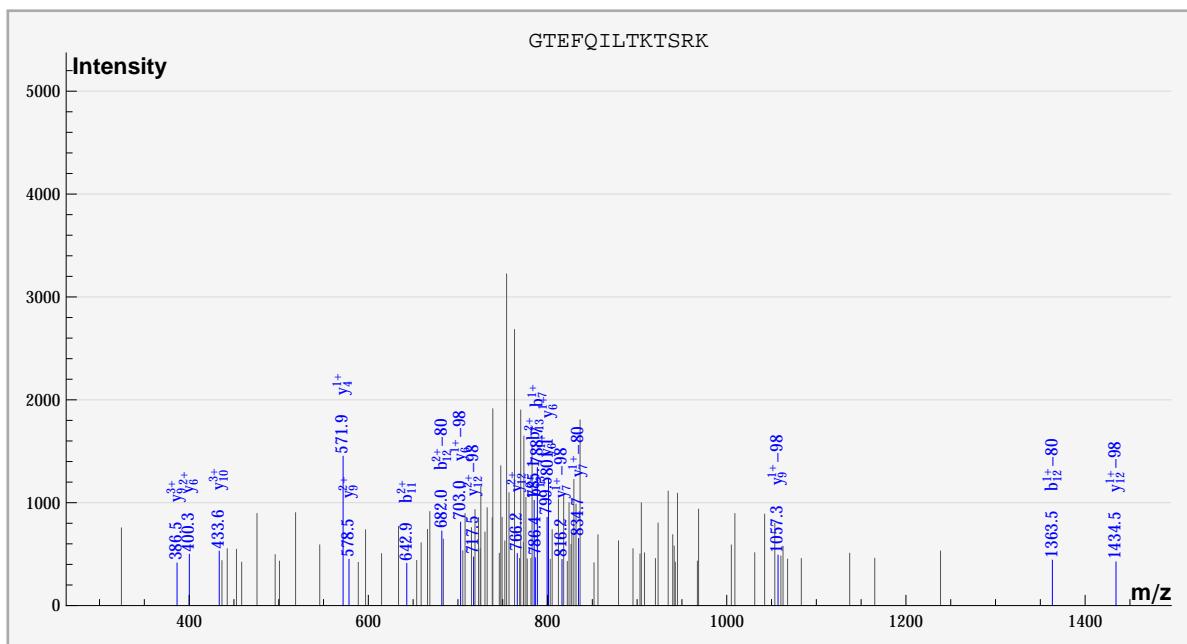
	♯	b	b*		♯	y	y*	P	P*
G	1								
T	2				12	✓	✓		
E	3				11				
F	4				10	✓			
Q	5				9	✓	✓		
I	6				8				
L	7	✓			7		✓		
T	8				6	✓	✓		
K	9				5				
T	10				4	✓			
S	11	✓			3				
R	12		✓		2				
K	13	✓			1				

G ⌐T E ⌐F ⌐Q I ⌐L⌐ T K ⌐T S⌐ R⌐ K⌐

dbValid true QSLLTVTKTLNK PHOS(3) 2. 795. −1.64444 5.46826 100. ? 2322.
S_Acido_new%gi|68566527|gb|AAY79456.1| QSLLTVTKTLNK%::PHOS:::PHOS::::PHOS::::%sample_1%cmpd_989

	#	b	b*	#	y	y*	P	P*
Q	1							✓
S	2			11	✓	✓		
L	3			10	✓			
L	4	✓		9	✓	✓		
T	5		✓	8		✓		
V	6	✓	✓	7		✓		
T	7	✓	✓	6	✓	✓		
K	8	✓	✓	5	✓			
T	9	✓	✓	4	✓	✓		
L	10	✓	✓	3	✓			
N	11	✓	✓	2	✓			
K	12		✓	1				

Q S L L T V T K T L N K

dbValid true QSLLTVTKTLNK PHOS(3) 2. 795. −1.64444 6.80645 100. ? 2340.
S_Acido_new%gi|68566527|gb|AAY79456.1| QSLLTVTKTLNK%::PHOS:::PHOS::::PHOS::::%sample_1%cmpd_1000

	♯	b	b*	♯	y	y*	P	P*
Q	1							
S	2	✓		11		✓		
L	3			10	✓			
L	4			9	✓			
T	5			8		✓		
V	6	✓	✓	7		✓		
T	7			6	✓			
K	8	✓		5				
T	9	✓	✓	4				
L	10	✓	✓	3	✓			
N	11	✓	✓	2	✓			
K	12	✓		1				

Q ⌐S ⌐L ⌐L ⌐T ⌐V ⌐T K ⌐T ⌐L ⌐N ⌐K

dbValid true TIKSLR PHOS(1) 1. 796. 1.42806 5.08901 100. ? 3804.
S_Acido_new%gi|68567311|gb|AAY80240.1| TIKSLR%::::PHOS:::%sample_1%cmpd_2342

	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
T	1							✓
I	2			5	✓	✓		
K	3			4				
S	4			3	✓			
L	5	✓		2	✓			
R	6		✓	1				
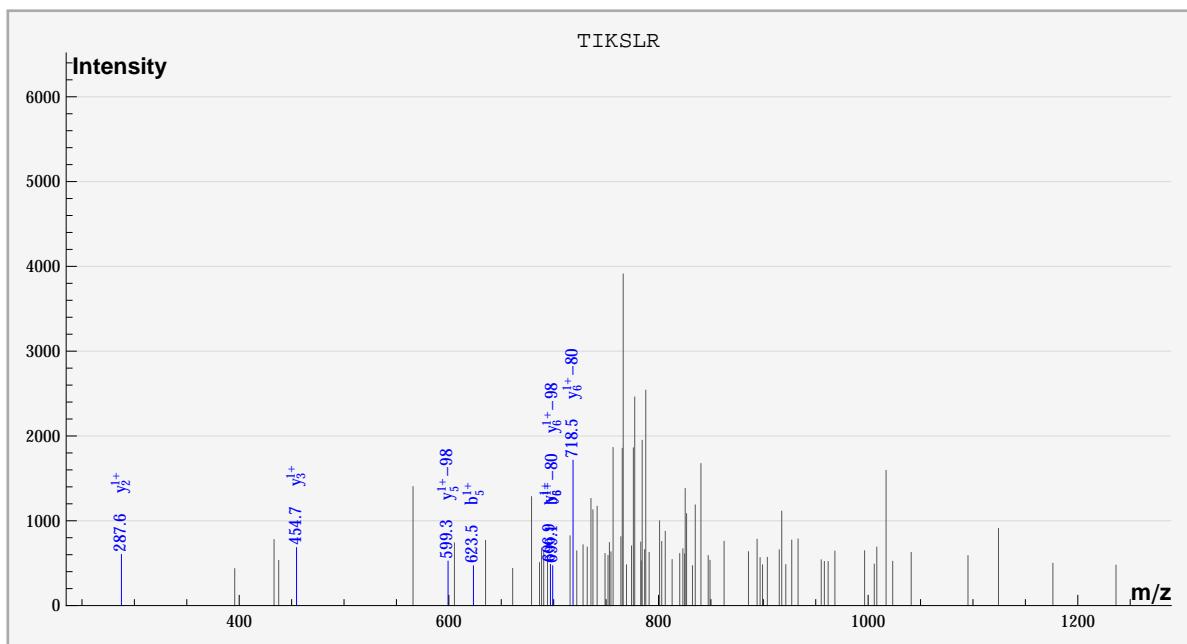
dbValid   true   YVDEWKEKMLR   Oxidation_M(1),PHOS(1)   2.   796.   0.862542   5.36721   100.   ?   4194.
S_Acido_new%gi|68566683|gb|AAY79612.1| YVDEWKEKMLR%:PHOS::::::::Oxidation_M:::%sample_1%cmpd_2697

	#	b	b*	#	y	y*	P	P*
Y	1							
V	2			10	✓			
D	3			9				
E	4			8				
W	5	✓		7	✓			
K	6		✓	6	✓			
E	7		✓	5	✓			
K	8			4				
M	9			3				
L	10	✓		2				
R	11	✓	✓	1				
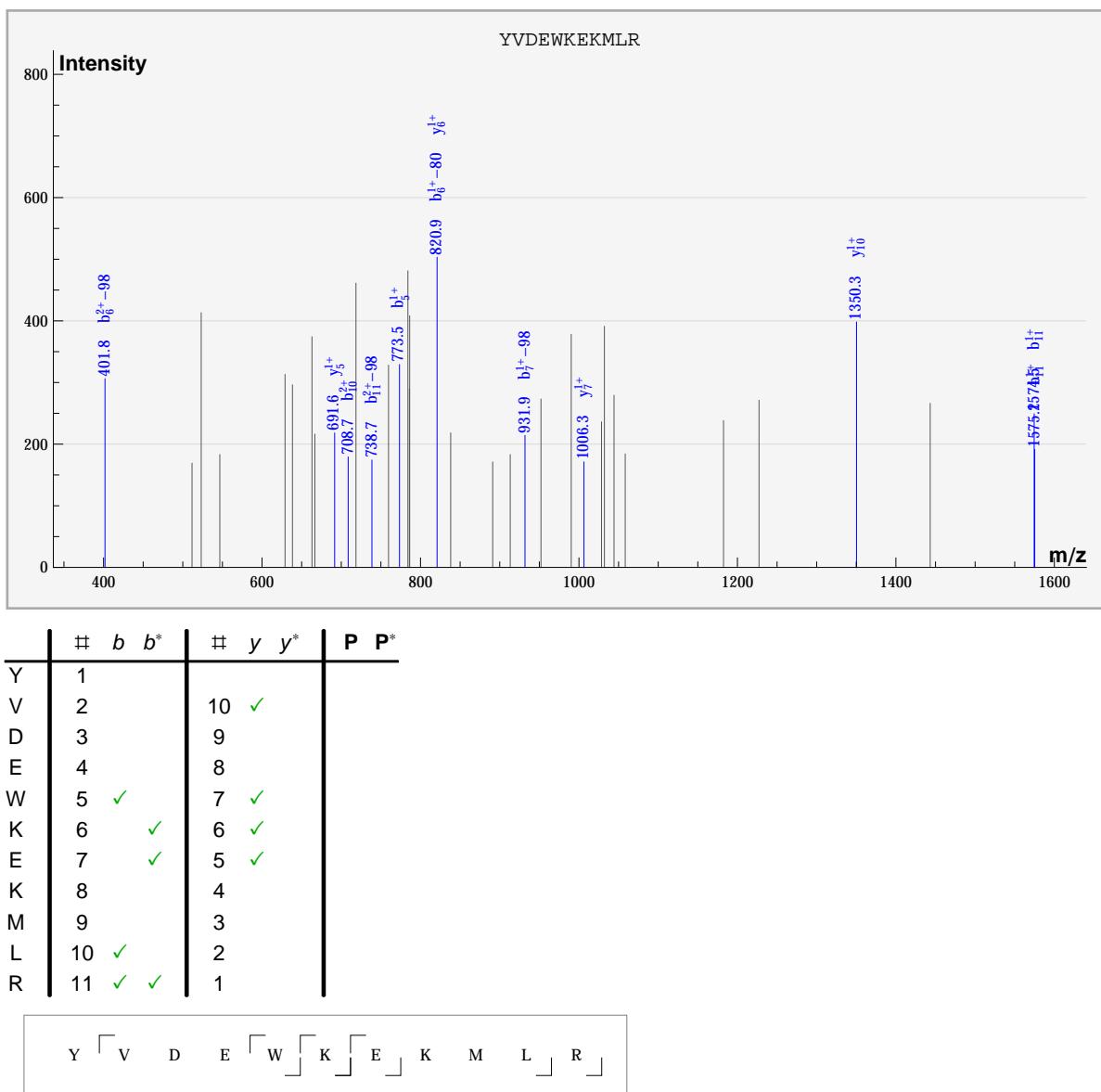
dbValid true RSSQLK PHOS(1) 1. 797. 1.38693 5.00082 100. ? 2508.
 S_Acido_new%gi|68567464|gb|AAY80393.1| RSSQLK%:::PHOS::::%sample_1%cmpd_1158
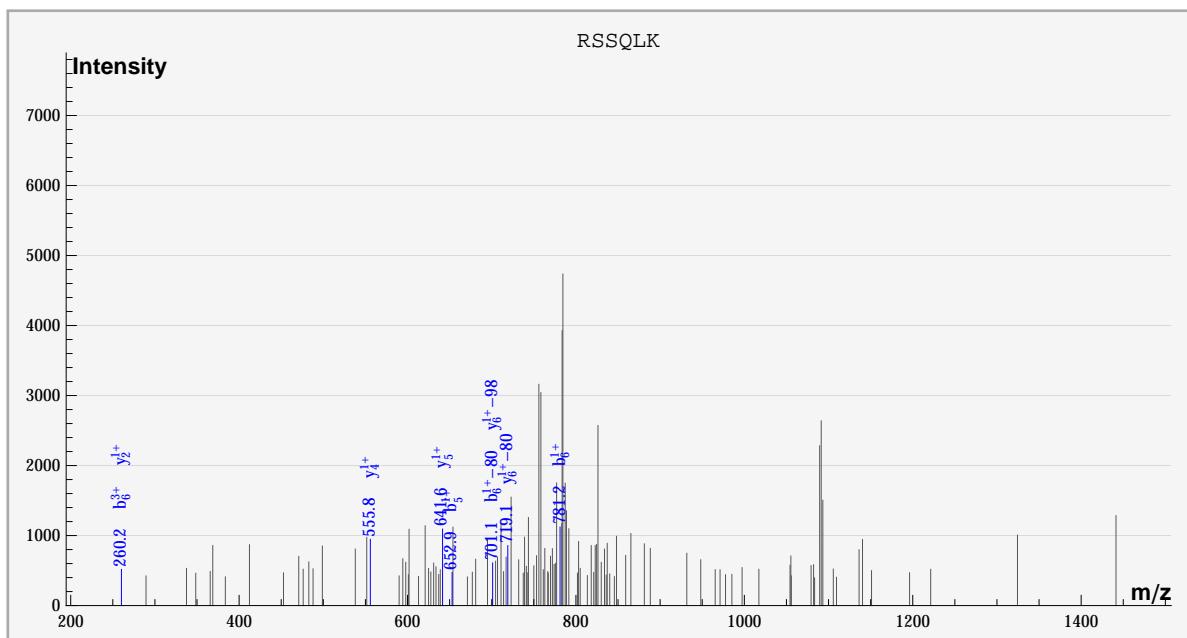
	♯	b	b*	♯	y	y*	P	P*
R	1							✓
S	2			5	✓			
S	3			4	✓			
Q	4			3				
L	5	✓		2	✓			
K	6	✓	✓	1				
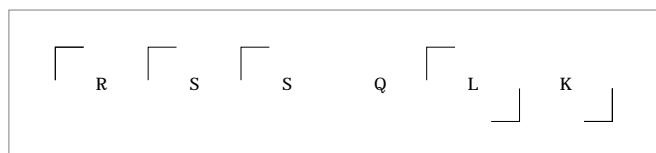
dbValid true IDSPRK PHOS(1) 1. 797. −1.62399 5.27336 100. ? 2862.
    S_Acido_new%gi|68568590|gb|AAY81519.1| IDSPRK%:::PHOS::::%sample_1%cmpd_1479
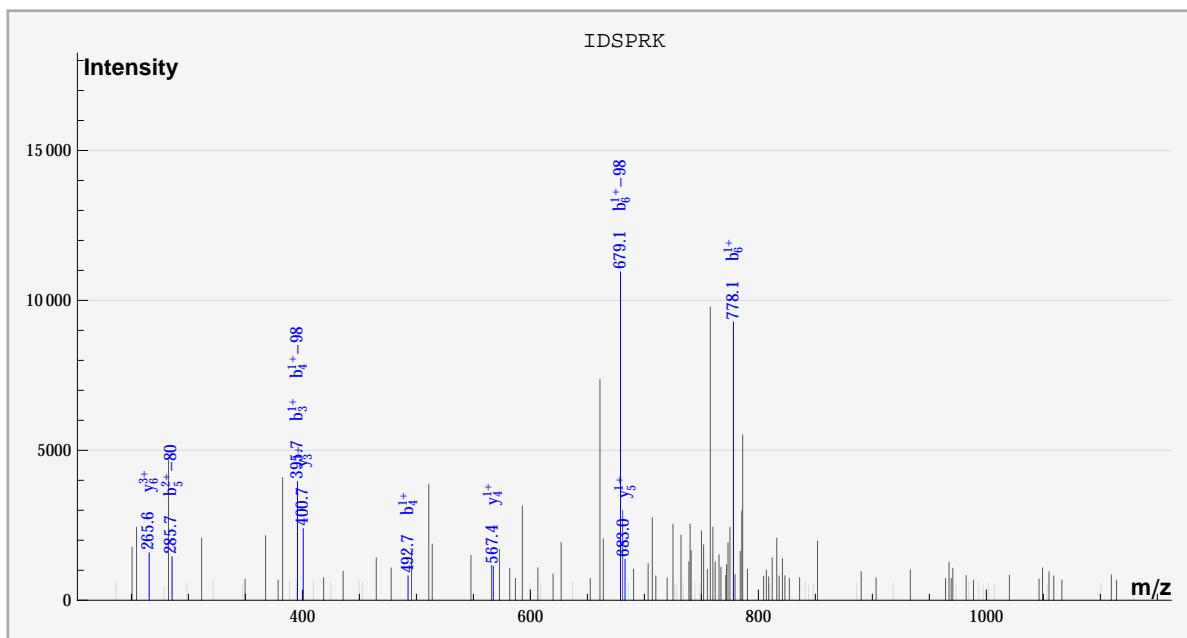
	#	b	b*	#	y	y*	P	P*
I	1						✓	
D	2			5	✓			
S	3	✓		4	✓			
P	4	✓	✓	3	✓			
R	5		✓	2				
K	6	✓	✓	1				
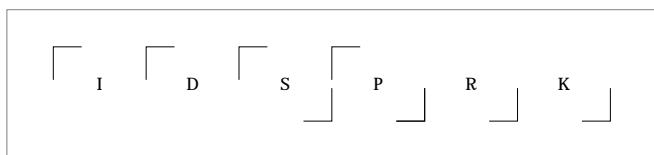
dbValid true VINTLR PHOS(1) 1. 797. −1.5876 5.71394 100. ? 3066.
   S_Acido_new%gi|68567260|gb|AAY80189.1| VINTLR%::::PHOS:::%sample_1%cmpd_1668
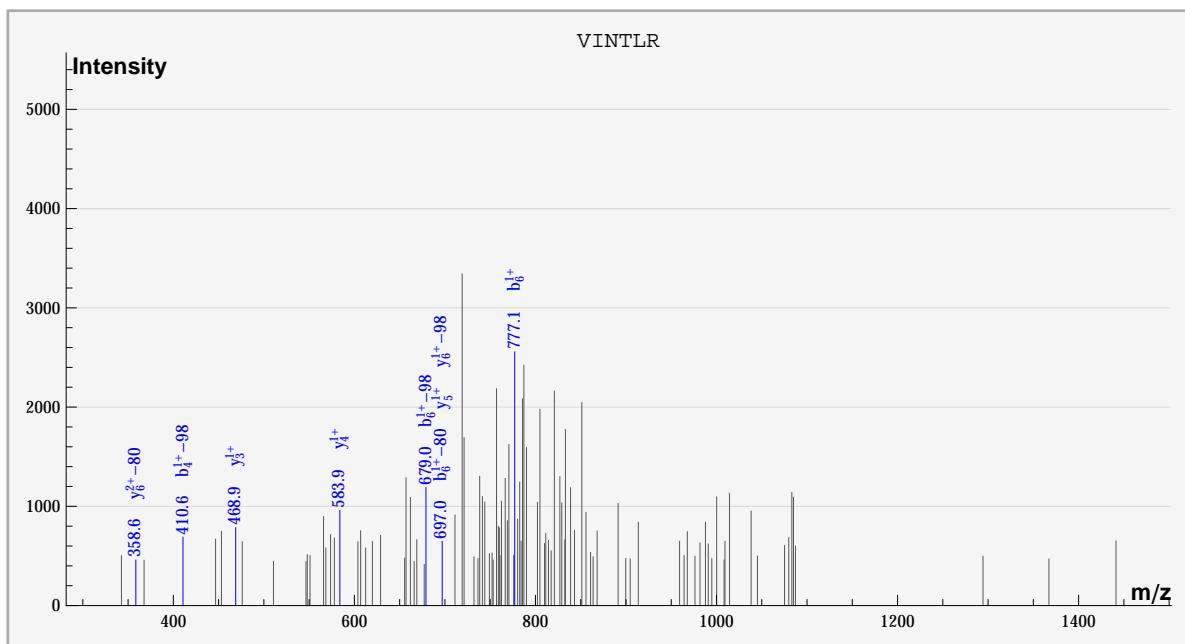
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
V	1							✓
I	2			5	✓			
N	3			4	✓			
T	4		✓	3	✓			
L	5			2				
R	6	✓	✓	1				
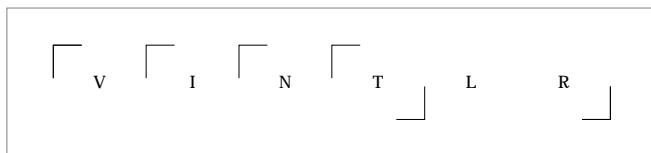
dbValid true IDSPRK PHOS(1) 1. 797. −1.62399 5.32848 100. ? 3114.
   S_Acido_new%gi|68568590|gb|AAY81519.1| IDSPRK%:::PHOS::::%sample_1%cmpd_1712
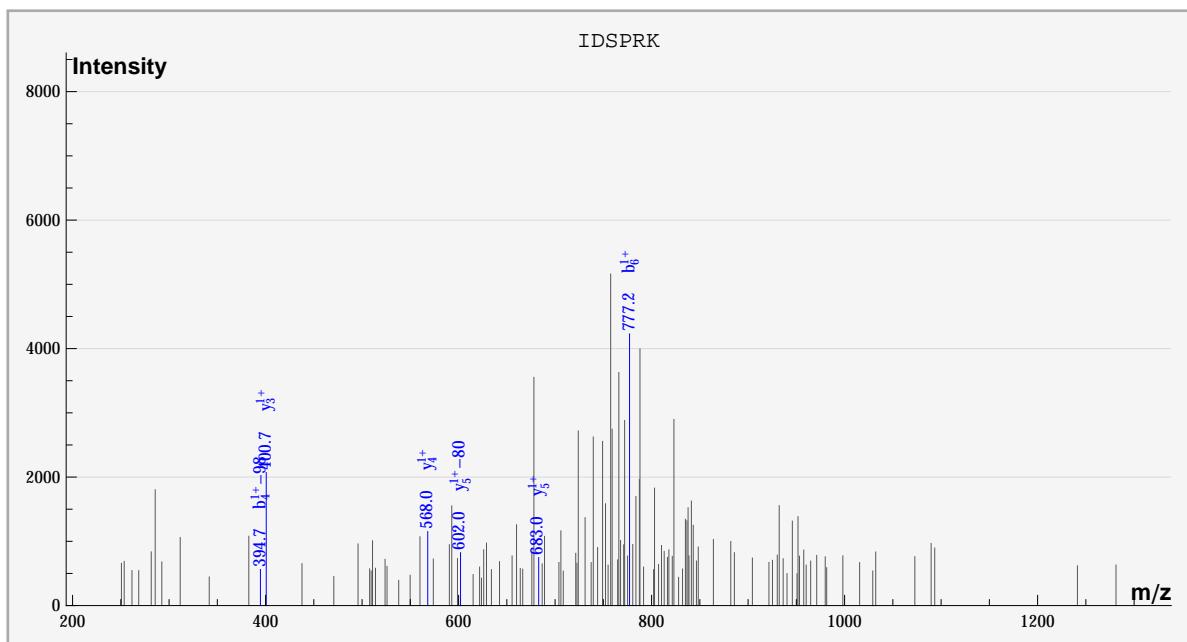
	♯	b	b*	♯	y	y*	P	P*
I	1							
D	2			5	✓	✓		
S	3			4	✓			
P	4		✓	3	✓			
R	5			2				
K	6	✓		1				
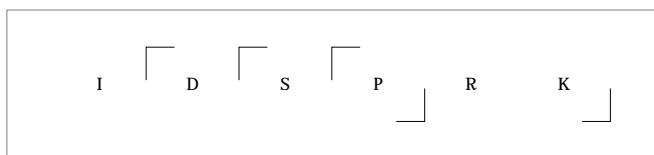
dbValid true YLVYASSRDQR PHOS(3) 2. 798. 1.29604 5.01926 100. ? 2628.
S_Acido_new%gi|68568101|gb|AAY81030.1| YLVYASSRDQR%:PHOS:::PHOS:::PHOS:::::%sample_1%cmpd_1270
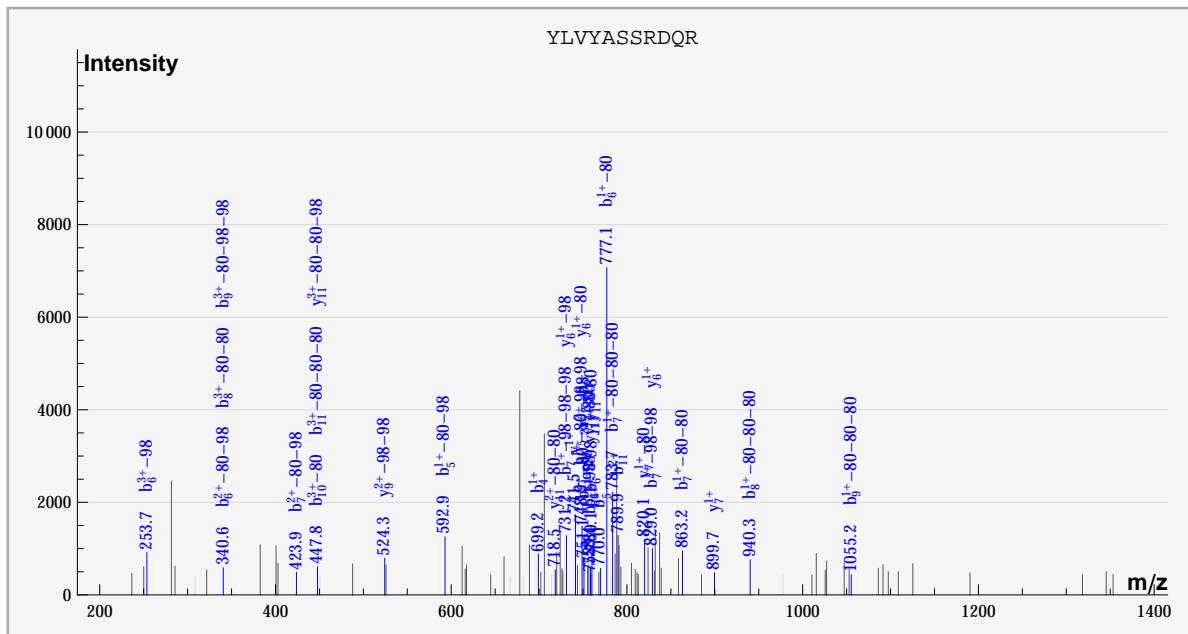
YLVYASSRDQR

	♯	b	b*	♯	y	y*	P	P*
Y	1							✓
L	2			10				
V	3			9		✓		
Y	4	✓		8				
A	5	✓	✓	7	✓	✓		
S	6		✓	6	✓	✓		
S	7		✓	5	✓			
R	8		✓	4				
D	9		✓	3				
Q	10		✓	2				
R	11	✓	✓	1				

Y L V Y A S S R D Q R

dbValid true VIVSNST PHOS(1) 1. 798. 1.35971 5.47429 100. ? 2640.
   S_Acido_new%gi|68566636|gb|AAY79565.1| VIVSNST%::::::PHOS::%sample_1%cmpd_1281

|	♯	b	b*	♯	y	y*	P	P*
V	1						✓	✓
I	2			6	✓	✓		
V	3	✓		5				
S	4			4				
N	5	✓		3	✓			
S	6	✓		2				
T	7	✓	✓	1				

dbValid true MMGMTV Oxidation_M(3),PHOS(1) 1. 798. −0.772125 5.32061 100. ?
  2802. S_Acido_new%gi|68568315|gb|AAY81244.1| S_Acido_new%gi|68568390|gb|AAY81319.1|
  MMGMTV%:Oxidation_M:Oxidation_M::Oxidation_M:PHOS::%sample_1%cmpd_1425
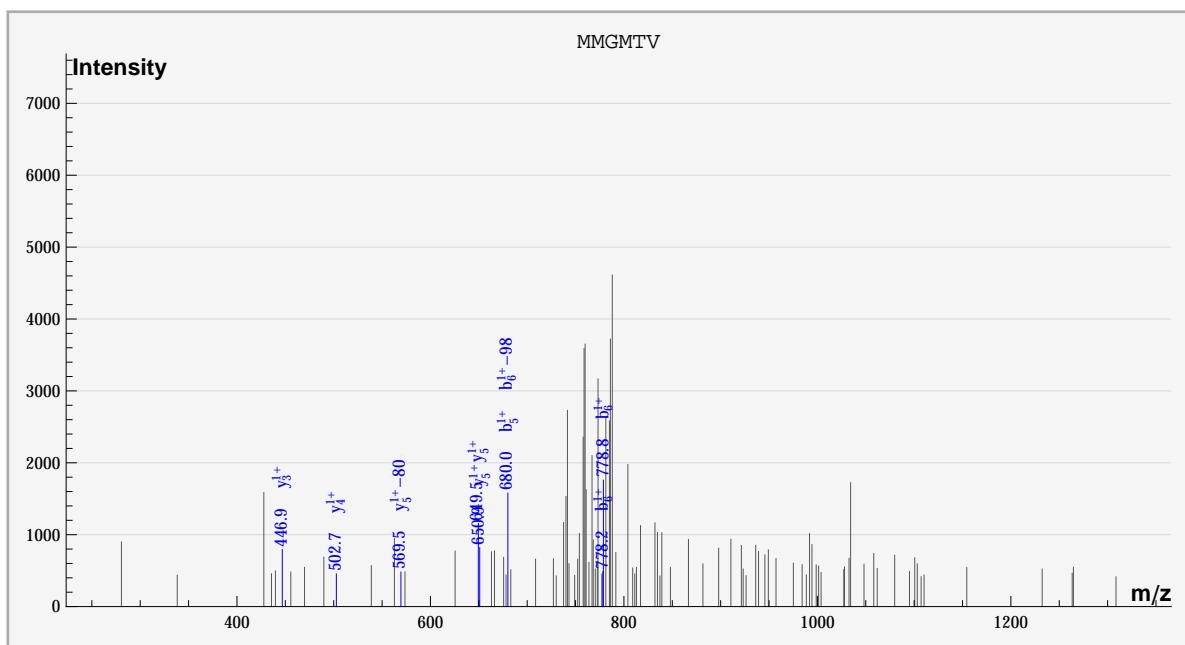
	#	b	b*		#	y	y*		P	P*
M	1									
M	2				5	✓	✓			
G	3				4	✓				
M	4				3	✓				
T	5	✓			2					
V	6	✓	✓		1					
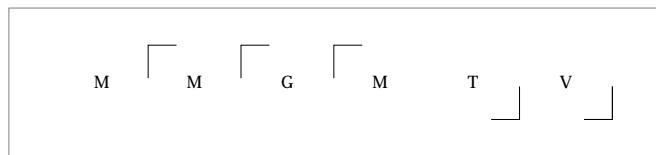
dbValid true RLSQELIEKASSR PHOS(1) 2. 798. 0.908877 6.14379 100. ? 3186.
S_Acido_new%gi|68567350|gb|AAY80279.1| RLSQELIEKASSR%:::PHOS::::::::::%sample_1%cmpd_1780

RLSQELIEKASSR
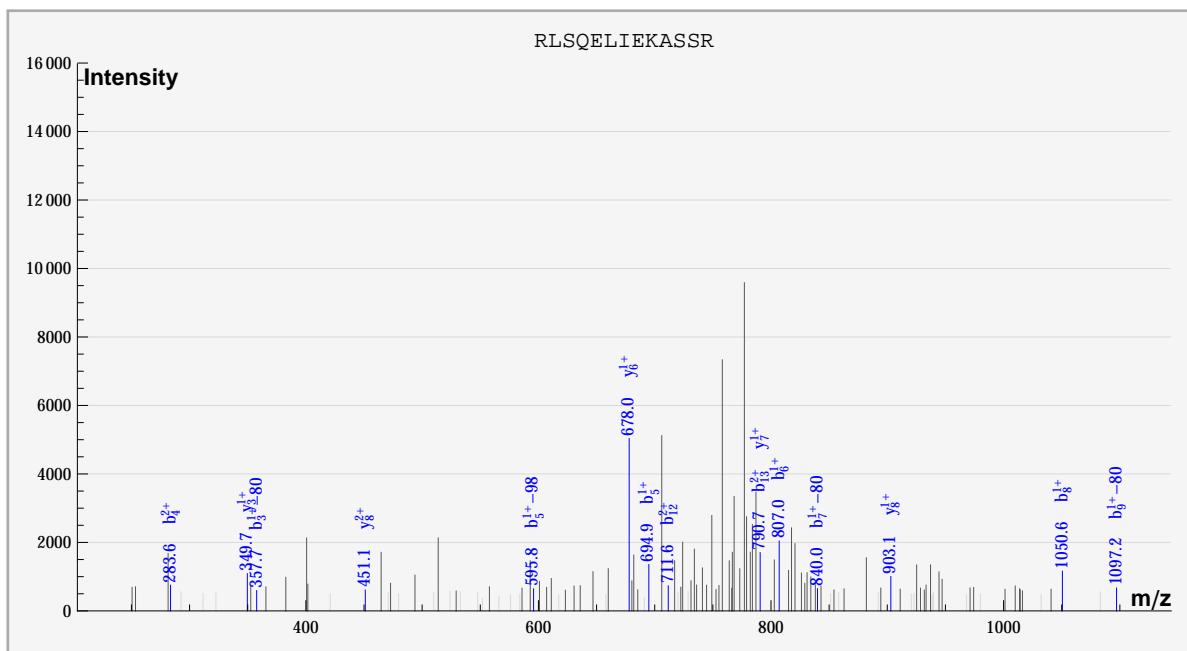
| ♯	b	b*	♯	y	y*	P	P*
R	1						
L	2			12			
S	3		✓	11			
Q	4	✓		10			
E	5	✓	✓	9			
L	6	✓		8	✓		
I	7		✓	7	✓		
E	8	✓		6	✓		
K	9		✓	5			
A	10			4			
S	11			3	✓		
S	12	✓		2			
R	13	✓		1			

R L S Q E L I E K A S S R

dbValid true VIVSNST PHOS(1) 1. 798. 1.35971 5.79337 100. ? 3198.
   S_Acido_new%gi|68566636|gb|AAY79565.1| VIVSNST%::::::PHOS::%sample_1%cmpd_1791

♯	b	b*	♯	y	y*	P	P*
V	1						✓	✓
I	2			6	✓			
V	3			5	✓	✓		
S	4			4				
N	5	✓		3	✓			
S	6		✓	2				
T	7	✓	✓	1				

dbValid true YSSLIVLSESGRK PHOS(2) 2. 798. 1.86495 5.5721 100. ? 3468.
S_Acido_new%gi|68566535|gb|AAY79464.1| YSSLIVLSESGRK%::PHOS:PHOS:::::::::::%sample_1%cmpd_2034
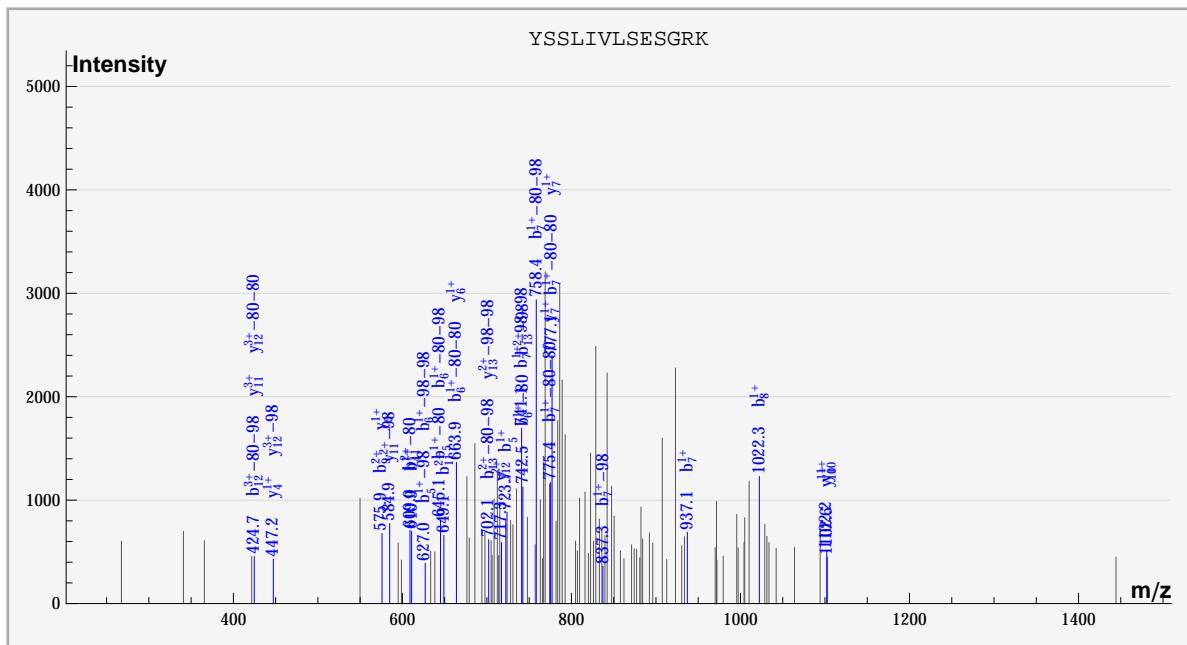
|	#	b	b*	#	y	y*	P	P*
Y	1							✓
S	2			12	✓	✓		
S	3			11	✓	✓		
L	4	✓		10	✓			
I	5	✓	✓	9				
V	6		✓	8				
L	7	✓	✓	7	✓			
S	8	✓		6	✓			
E	9	✓		5	✓			
S	10			4	✓			
G	11	✓	✓	3				
R	12		✓	2				
K	13		✓	1				

⌐Y ⌐S ⌐S ⌐L⌐ I⌐ V⌐ L⌐ S⌐ E⌐ S G⌐ R⌐ K⌐

dbValid true GEETER PHOS(1) 1. 799. 1.28218 5.13725 100. ? 2568.
S_Acido_new%gi|68567632|gb|AAY80561.1| GEETER%::::PHOS:::%sample_1%cmpd_1217
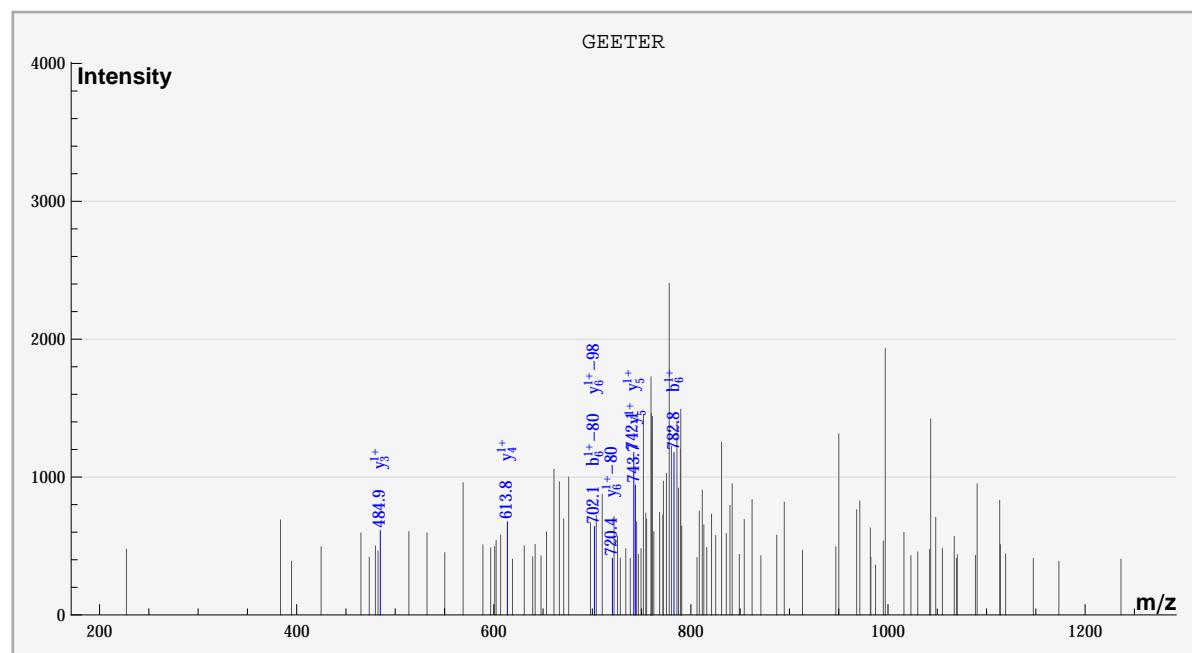
	#	*b*	*b**	#	*y*	*y**	**P**	**P***
G	1							✓
E	2			5	✓			
E	3			4	✓			
T	4			3	✓			
E	5			2				
R	6	✓	✓	1				
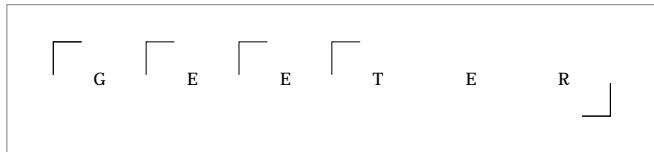
dbValid true VYGIIR PHOS(1) 1. 799. 1.40659 5.34753 100. ? 2652.
   S_Acido_new%gi|68568408|gb|AAY81337.1| VYGIIR%::PHOS:::::%sample_1%cmpd_1294

VYGIIR
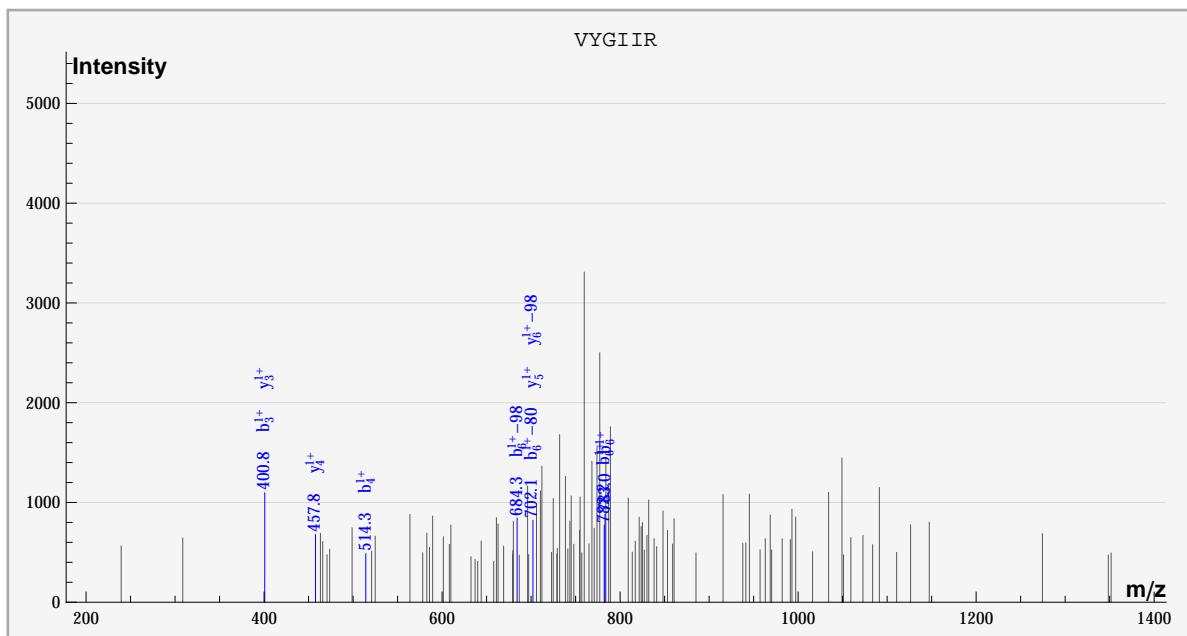
|	♯	b	b*	♯	y	y*	P	P*
V	1							✓
Y	2			5	✓			
G	3	✓		4	✓			
I	4	✓		3	✓			
I	5			2				
R	6	✓	✓	1				
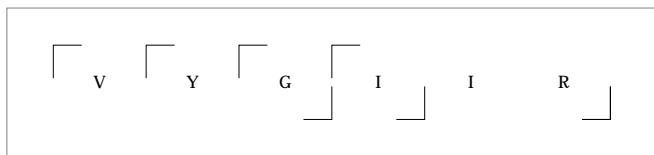
dbValid true IYYVSTASSKR PHOS(4) 2. 799. −1.22679 5.05776 100. ? 2826.
  S_Acido_new%gi|68567398|gb|AAY80327.1| IYYVSTASSKR**%:::PHOS::PHOS:::PHOS:PHOS:::%sample_0%cmpd_1336


	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
I	1							
Y	2			10				
Y	3			9				
V	4		✓	8				
S	5			7		✓		
T	6		✓	6	✓	✓		
A	7		✓	5				
S	8			4		✓		
S	9			3				
K	10	✓		2				
R	11	✓		1				
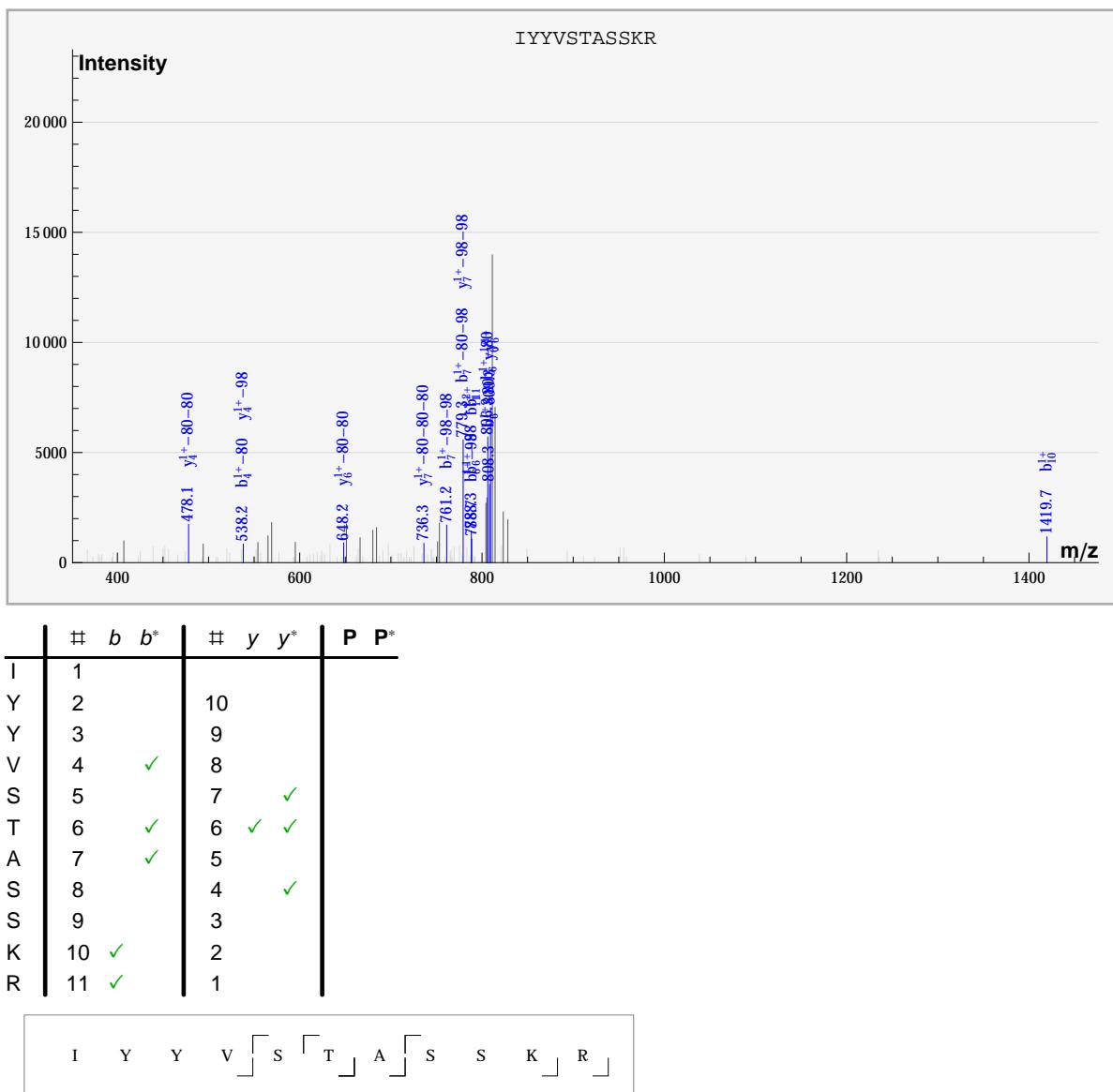
I   Y   Y   V   S   T   A   S   S   K   R

dbValid true IYYVSTASSKR PHOS(4) 2. 799.44 −1.66679 5.08492 100. ? 4776.
S_Acido_new%gi|68567398|gb|AAY80327.1| IYYVSTASSKR%::PHOS:PHOS::PHOS:::PHOS::::%sample_1%cmpd_3537

|	♯	b	b*		♯	y	y*		P	P*
I	1								✓	✓
Y	2	✓			10		✓			
Y	3	✓			9		✓			
V	4	✓	✓		8	✓	✓			
S	5	✓	✓		7	✓	✓			
T	6		✓		6	✓				
A	7		✓		5					
S	8	✓	✓		4	✓				
S	9	✓	✓		3					
K	10		✓		2					
R	11	✓	✓		1					
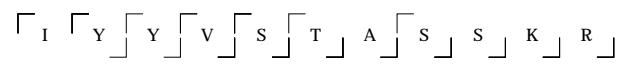
dbValid true MSHIKILGIPGSIR PHOS(1) 2. 801. 0.433472 5.10267 100. ? 2664.
S_Acido_new%gi|68567672|gb|AAY80601.1| MSHIKILGIPGSIR%:::::::::::PHOS:::%sample_1%cmpd_1201

	#	b	b*	#	y	y*	P	P*
M	1							
S	2			13				
H	3			12				
I	4			11				
K	5			10				
I	6			9				
L	7	✓		8		✓		
G	8			7	✓			
I	9			6				
P	10			5	✓			
G	11			4				
S	12		✓	3				
I	13			2	✓			
R	14			1				

M   S   H   I   K   I ⌐L⌐G   I ⌐P   G   S⌐ I   R

dbValid true MSHIKILGIPGSIR PHOS(1) 2. 801. 0.433472 5.14043 100. ? 2676.
  S_Acido_new%gi|68567672|gb|AAY80601.1| MSHIKILGIPGSIR%:::::::::::PHOS:::%sample_1%cmpd_1211


	#	b	b*	#	y	y*	P	P*
M	1							
S	2			13				
H	3			12				
I	4			11				
K	5			10				
I	6			9				
L	7	✓		8		✓		
G	8			7	✓			
I	9			6				
P	10			5	✓			
G	11			4				
S	12		✓	3				
I	13			2				
R	14			1				

M S H I K I ⌐L⌐ G I ⌐P G S⌐ I R

dbValid true KTALDRVTSQIK PHOS(3) 2. 802. -1.64919 5.83061 100. ? 2892.
 S_Acido_new%gi|68567318|gb|AAY80247.1| KTALDRVTSQIK%::PHOS::::::PHOS:PHOS::::%sample_1%cmpd_1396

	#	b	b*	#	y	y*	P	P*
K	1							✓
T	2			11				
A	3	✓		10				
L	4	✓		9				
D	5			8				
R	6	✓		7		✓		
V	7			6		✓		
T	8			5	✓			
S	9			4	✓			
Q	10			3				
I	11			2				
K	12	✓	✓	1				

dbValid true KTALDRVTSQIK PHOS(3) 2. 802. −1.64919 5.75782 100. ? 2904.
S_Acido_new%gi|68567318|gb|AAY80247.1| KTALDRVTSQIK%::PHOS::::::PHOS:PHOS::::%sample_1%cmpd_1407

	#	b	b*	#	y	y*	P	P*
K	1							✓
T	2			11				
A	3	✓		10				
L	4	✓		9				
D	5	✓	✓	8				
R	6	✓	✓	7		✓		
V	7			6		✓		
T	8			5	✓			
S	9			4	✓			
Q	10			3				
I	11			2				
K	12	✓	✓	1				

K T A L D R V T S Q I K

dbValid   true   KTALDRVTSQIK   PHOS(3)   2.   802.   −1.64919   5.4489   100.   ?   2952.
   S_Acido_new%gi|68567318|gb|AAY80247.1| KTALDRVTSQIK%::PHOS::::::PHOS:PHOS::::%sample_1%cmpd_1448


	#	b	b*	#	y	y*	P	P*
K	1							✓
T	2			11				
A	3	✓		10				
L	4	✓		9				
D	5	✓	✓	8	✓			
R	6	✓	✓	7		✓		
V	7			6		✓		
T	8			5	✓			
S	9			4	✓			
Q	10			3				
I	11			2				
K	12	✓	✓	1				

K   T   A   L   D   R   V   T   S   Q   I   K

dbValid   true   ELKLSSQEIQKR   PHOS(2)   2.   811.   −1.11633   5.35138   100.   ?   2592.
S_Acido_new%gi|68567066|gb|AAY79995.1| ELKLSSQEIQKR%:::::PHOS:PHOS:::::::%sample_2%cmpd_1125
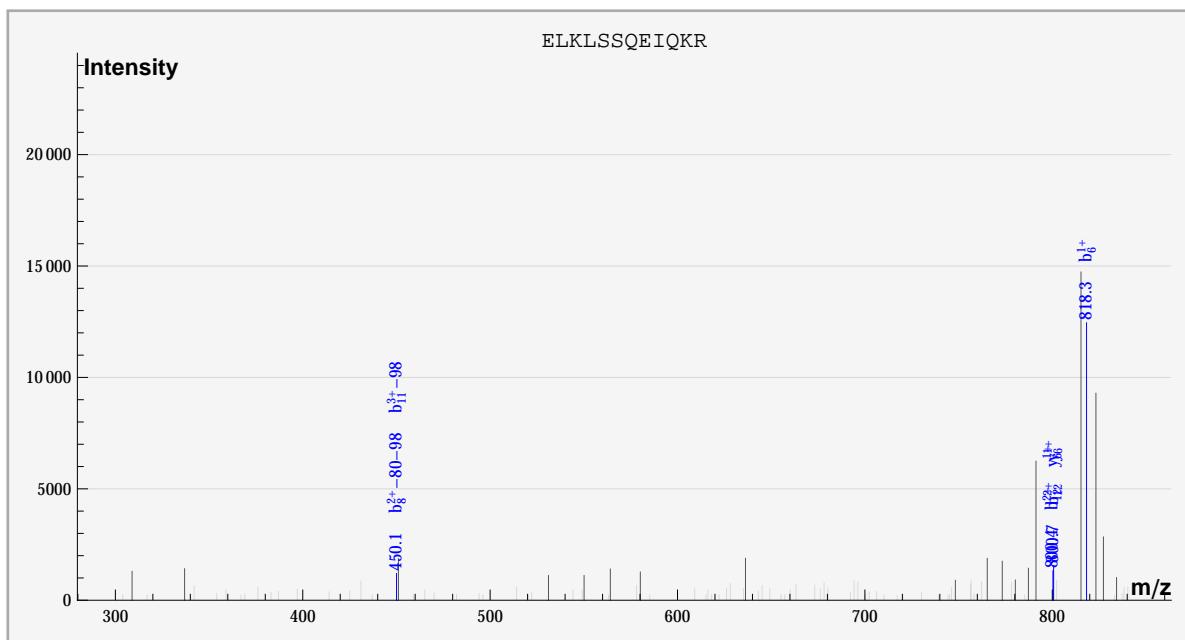
ELKLSSQEIQKR

	#	*b*	*b**	#	*y*	*y**	**P**	**P**
E	1							
L	2			11				
K	3			10				
L	4			9				
S	5			8				
S	6	✓		7				
Q	7			6	✓			
E	8		✓	5				
I	9			4				
Q	10			3				
K	11		✓	2				
R	12	✓		1				

E   L   K   L   S   S   Q   E   I   Q   K   R

dbValid true ELKLSSQEIQKR PHOS(2) 2. 811. −1.11633 5.63517 100. ? 2604.
   S_Acido_new%gi|68567066|gb|AAY79995.1| ELKLSSQEIQKR%:::::PHOS:PHOS:::::::%sample_2%cmpd_1135
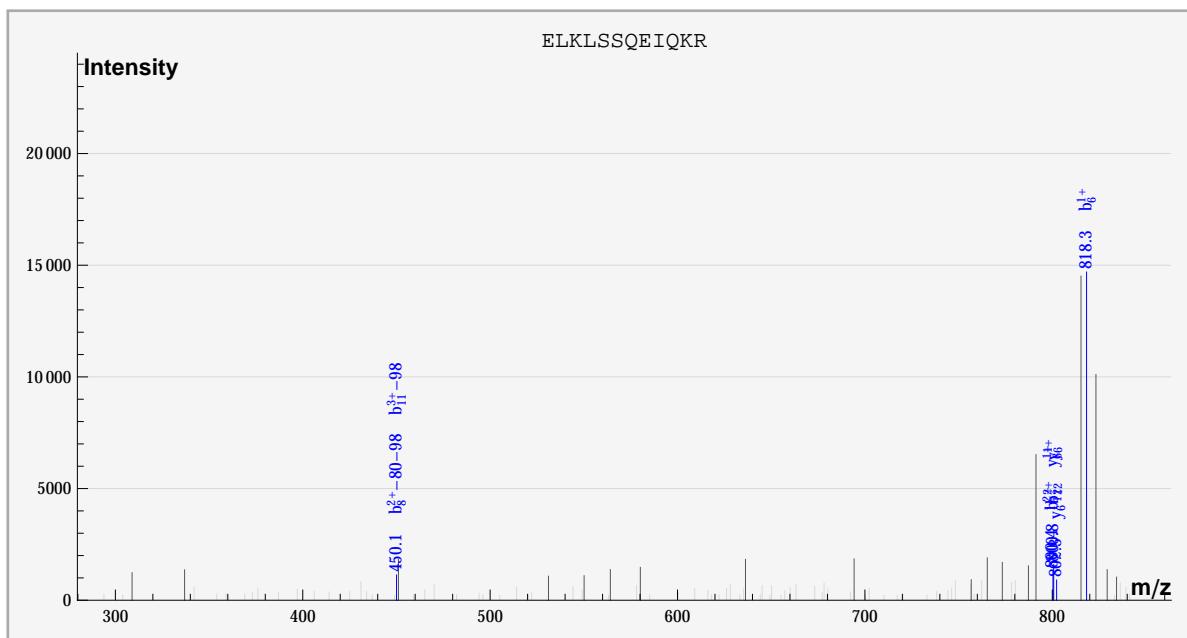
	♯	b	b^*	♯	y	y^*	**P**	**P***
E	1							
L	2			11				
K	3			10				
L	4			9				
S	5			8				
S	6	✓		7				
Q	7			6	✓			
E	8		✓	5				
I	9			4				
Q	10			3				
K	11		✓	2				
R	12	✓		1				

E L K L S S Q E I Q K R

dbValid true VIIAGTR PHOS(1) 1. 811. −1.57196 5.11445 100. ? 3318.
   S_Acido_new%gi|68567014|gb|AAY79943.1| VIIAGTR%::::::PHOS::%sample_1%cmpd_1884
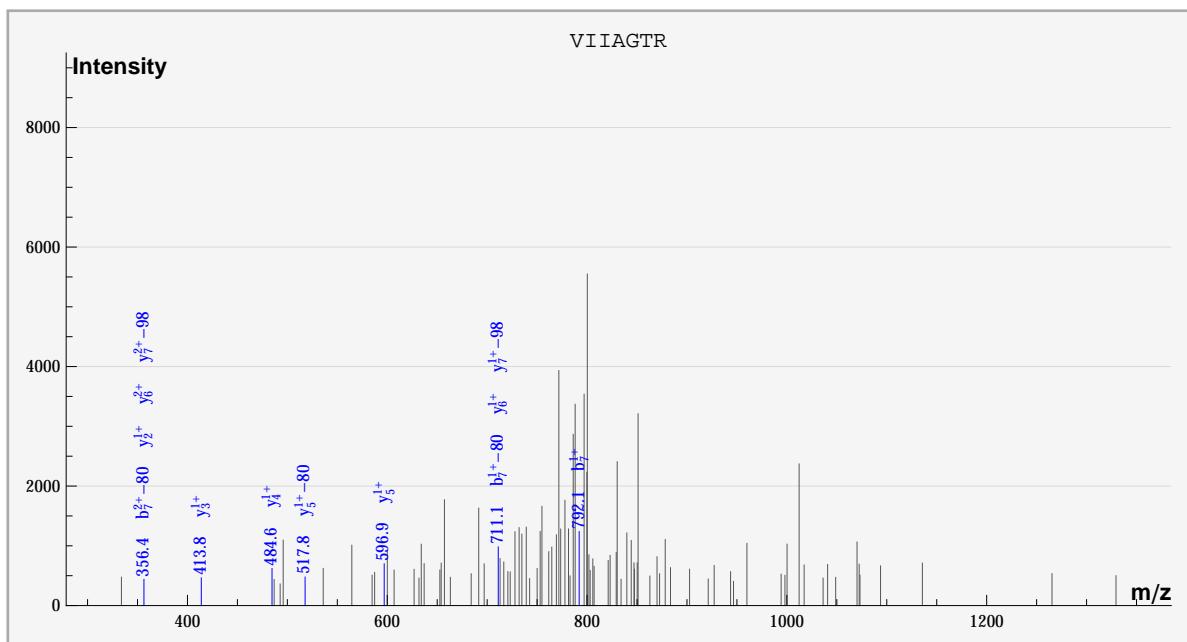
	#	b	b*	#	y	y*	P	P*
V	1							✓
I	2			6	✓			
I	3			5	✓	✓		
A	4			4	✓			
G	5			3	✓			
T	6			2	✓			
R	7	✓	✓	1				
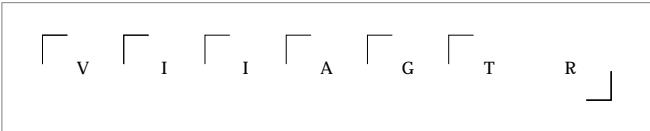
dbValid true NSTSVVLGVLSRVK PHOS(2) 2. 811. −1.09814 5.12852 100. ? 3708.
S_Acido_new%gi|68566794|gb|AAY79723.1| NSTSVVLGVLSRVK%::PHOS:::::::::PHOS::::%sample_1%cmpd_2239

NSTSVVLGVLSRVK
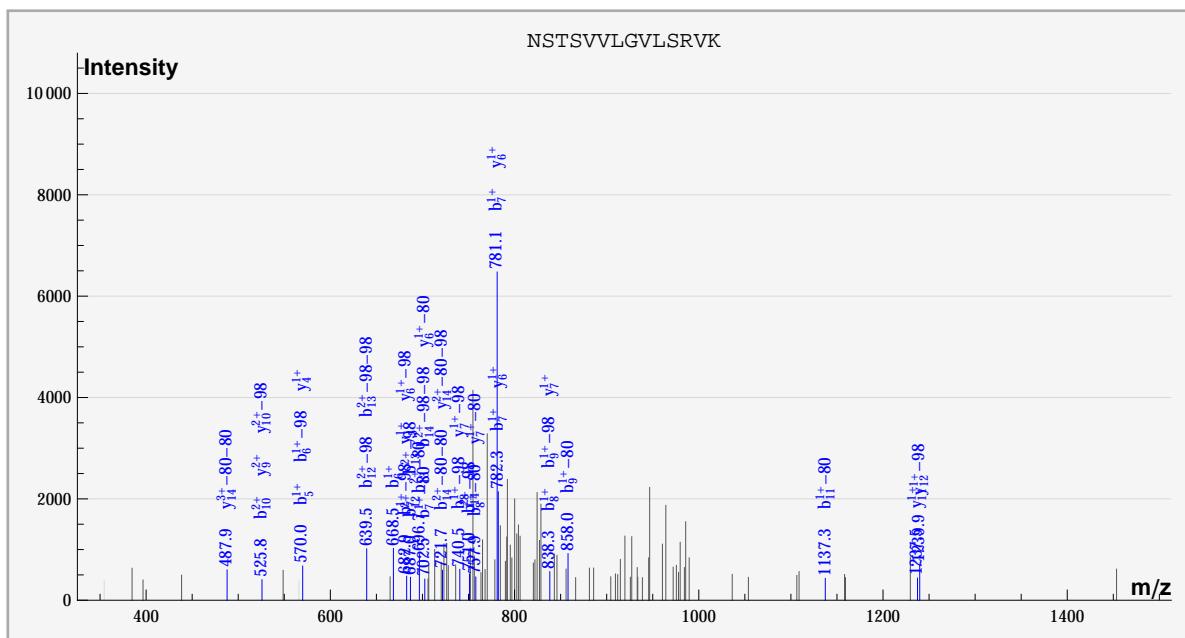
	♯	b	b*	♯	y	y*	P	P*
N	1							✓
S	2			13				
T	3			12		✓		
S	4			11	✓			
V	5	✓		10		✓		
V	6	✓	✓	9	✓			
L	7	✓	✓	8				
G	8	✓	✓	7	✓	✓		
V	9		✓	6	✓	✓		
L	10	✓		5	✓			
S	11		✓	4	✓			
R	12	✓	✓	3				
V	13		✓	2				
K	14		✓	1				

N S T S V V L G V L S R V K

dbValid   true   TLTYNQVLYESK   PHOS(2)   2.   811.14   −1.29631   5.86472   100.   ?   2448.
S_Acido_new%gi|68568655|gb|AAY81584.1| TLTYNQVLYESK%:::::::::PHOS::PHOS::%sample_1%cmpd_1119
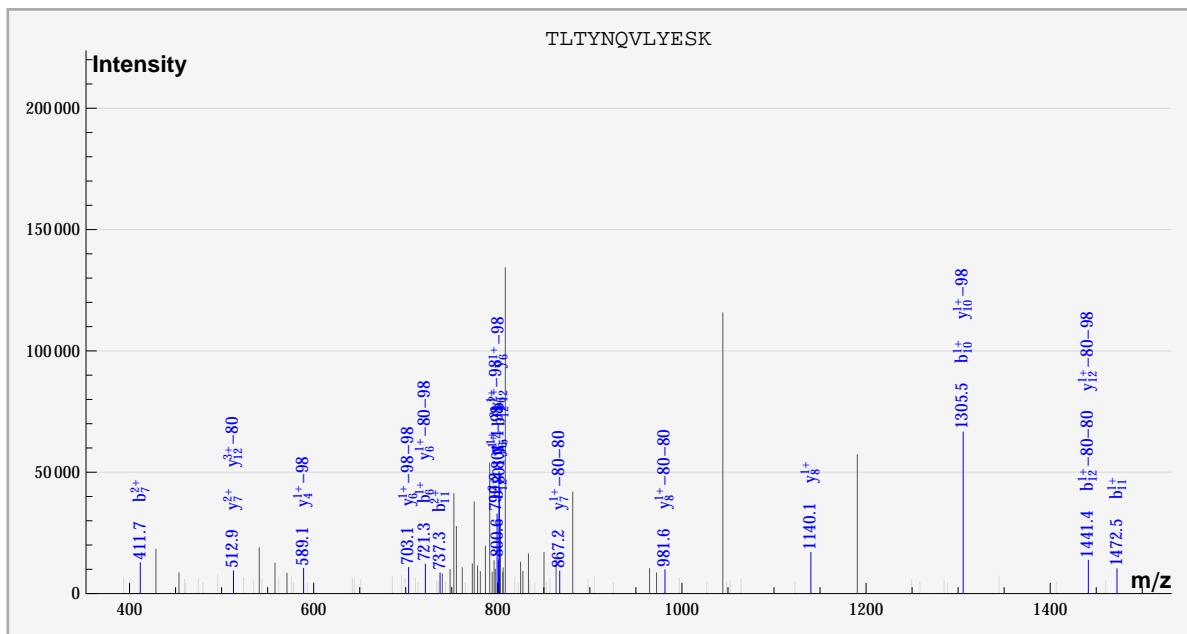
	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
T	1							✓
L	2			11				
T	3			10		✓		
Y	4			9				
N	5			8	✓	✓		
Q	6	✓		7	✓	✓		
V	7	✓		6		✓		
L	8			5	✓			
Y	9			4		✓		
E	10	✓		3				
S	11	✓		2				
K	12	✓	✓	1				

dbValid true DIIKSR PHOS(1) 1. 812. −0.592685 5.18152 100. ? 2496.
 S_Acido_new%gi|68566750|gb|AAY79679.1| DIIKSR%:::::PHOS::%sample_1%cmpd_1130
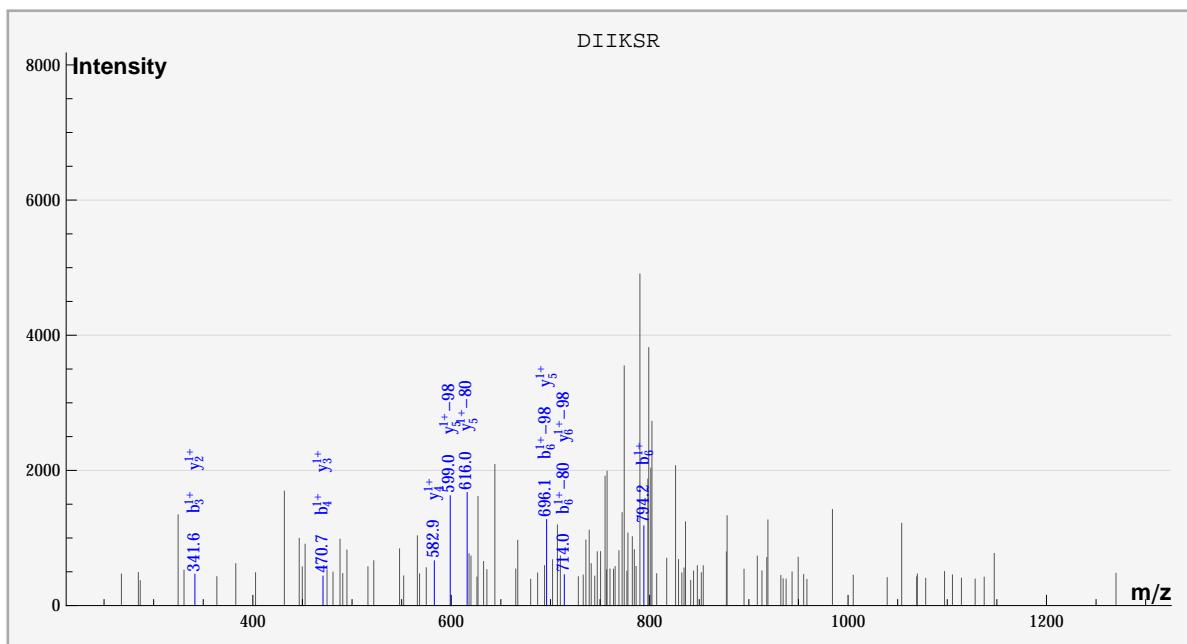

	♯	b	b*	♯	y	y*	P	P*
D	1							✓
I	2			5	✓	✓		
I	3	✓		4	✓			
K	4	✓		3	✓			
S	5			2	✓			
R	6	✓	✓	1				
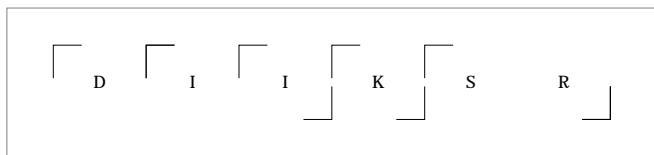
dbValid   true   VGASLKR   PHOS(1)   1.   812.   −1.57671   6.18272   100.   ?   3234.
S_Acido_new%gi|68568649|gb|AAY81578.1| VGASLKR%::::PHOS::::%sample_1%cmpd_1807

|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
V	1							✓
G	2			6	✓			
A	3			5	✓	✓		
S	4			4	✓			
L	5			3	✓			
K	6		✓	2				
R	7	✓	✓	1				
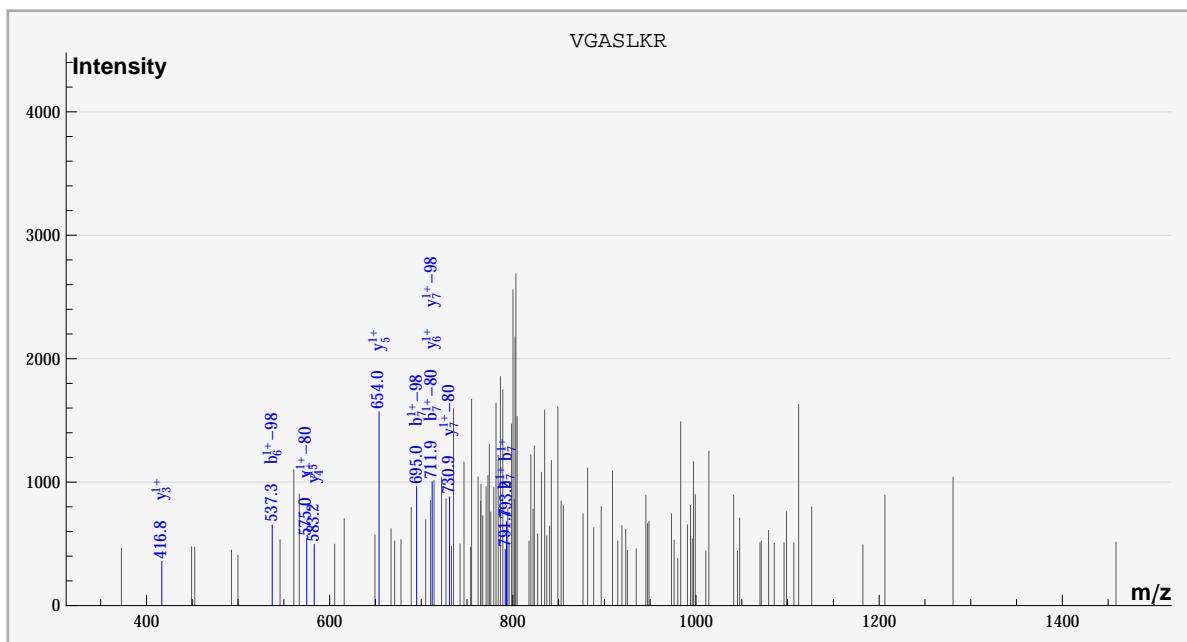
dbValid true LSILASK PHOS(1) 1. 813. −1.56754 5.55237 100. ? 1596.
S_Acido_new%gi|68567478|gb|AAY80407.1| LSILASK%::::::PHOS::%sample_2%cmpd_288
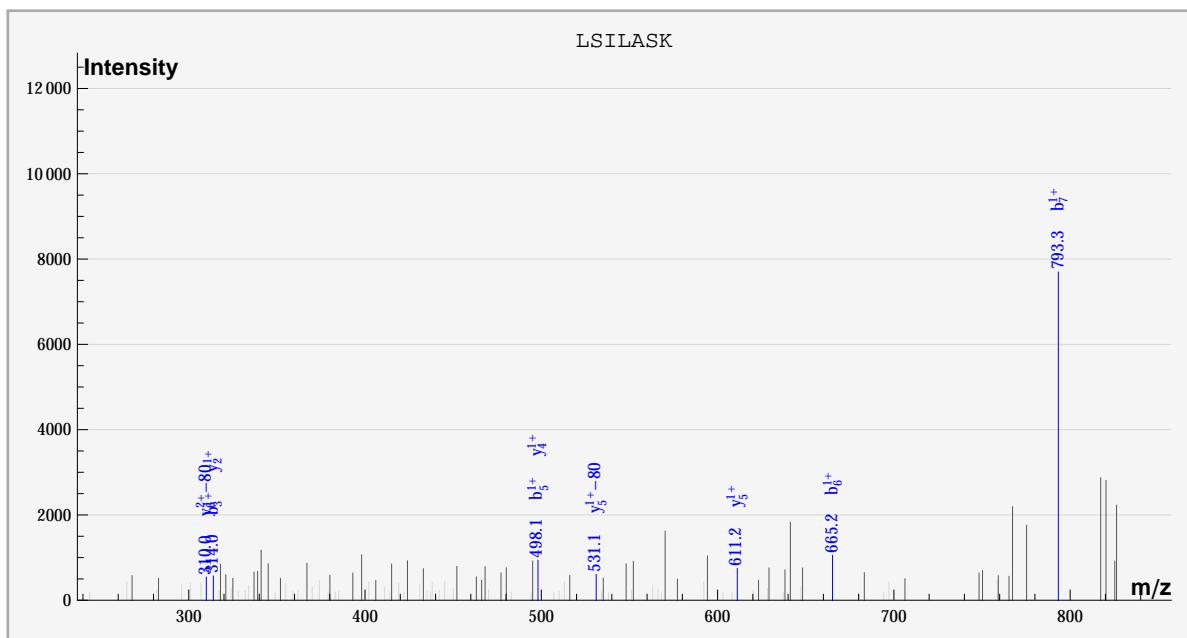
LSILASK

| #	b	b*	#	y	y*	P	P*
L	1						
S	2		6		✓		
I	3	✓	5	✓	✓		
L	4		4	✓			
A	5	✓	3				
S	6	✓	2	✓			
K	7	✓	1				
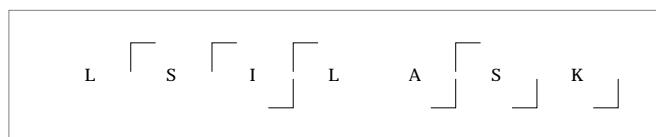
L S I L A S K

dbValid true LSILASK PHOS(1) 1. 813. −1.56754 5.43883 100. ? 1608.
S_Acido_new%gi|68567478|gb|AAY80407.1| LSILASK%::::::PHOS::%sample_2%cmpd_298
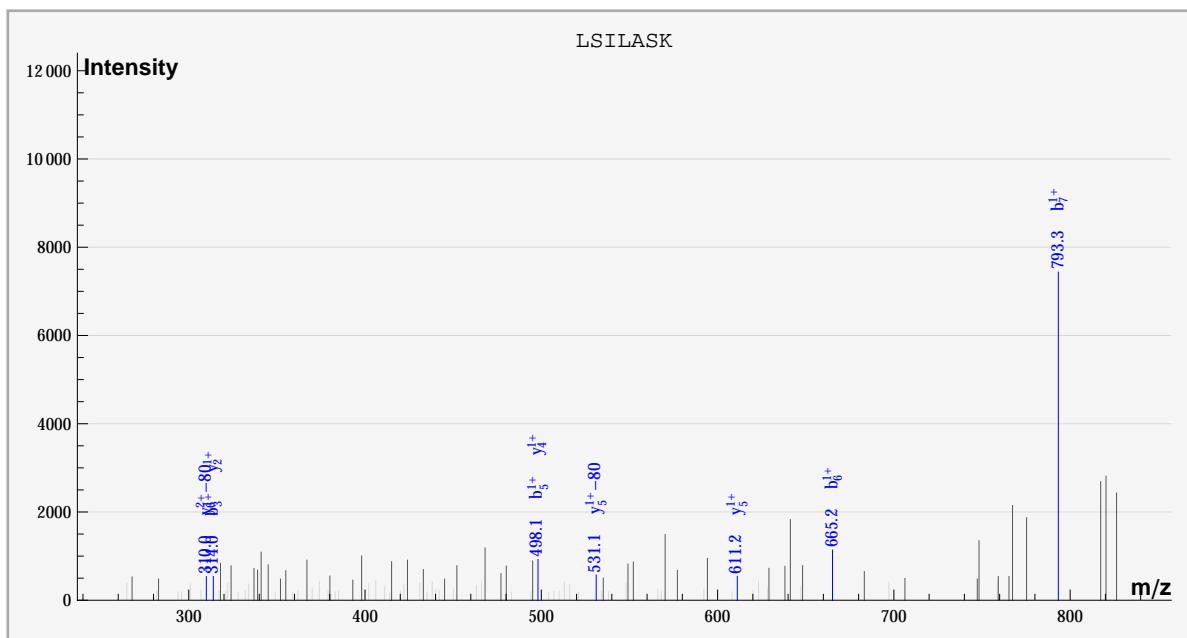
| ♯	b	b*		♯	y	y*		P	P*
L	1								
S	2				6		✓		
I	3	✓			5	✓	✓		
L	4				4	✓			
A	5	✓			3				
S	6	✓			2	✓			
K	7	✓			1				
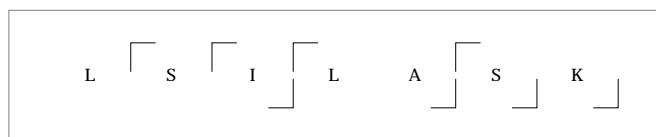
dbValid true LSILASK PHOS(1) 1. 813. −1.56754 5.18537 100. ? 1620.
   S_Acido_new%gi|68567478|gb|AAY80407.1| LSILASK%::::::PHOS::%sample_2%cmpd_308
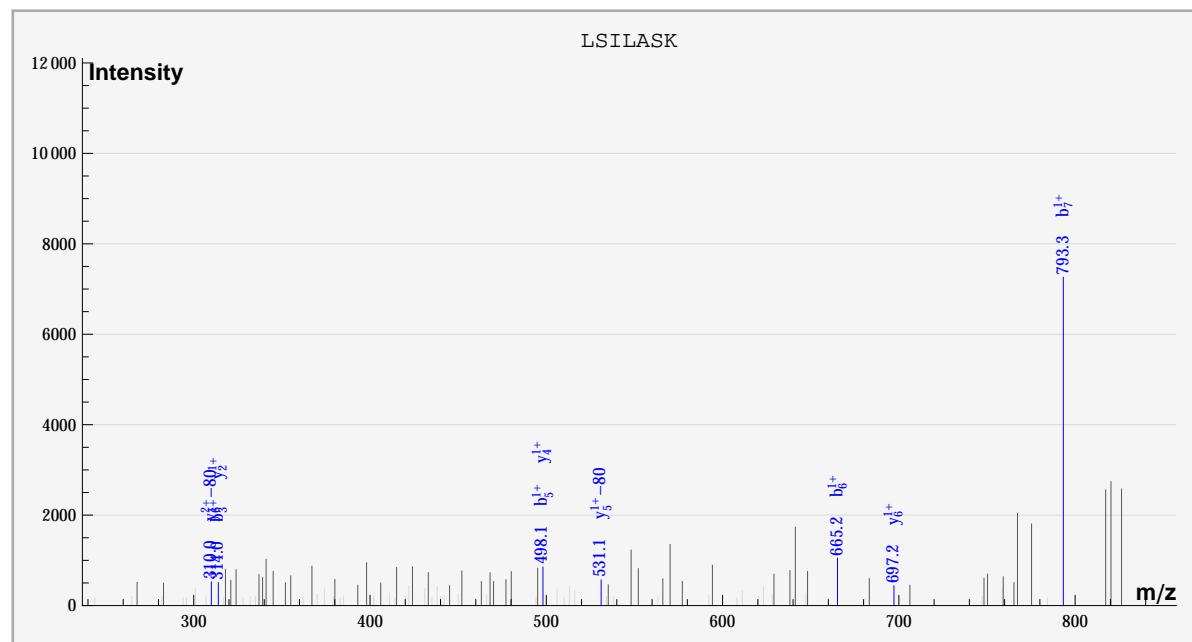
LSILASK

| #	b	b*		#	y	y*		P	P*
L	1								
S	2			6	✓	✓			
I	3	✓		5		✓			
L	4			4	✓				
A	5	✓		3					
S	6	✓		2	✓				
K	7	✓		1					
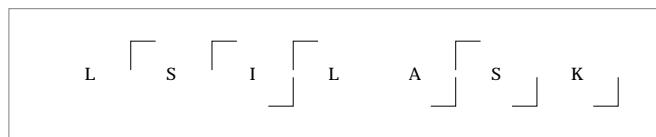
dbValid   true   LSILASK   PHOS(1)   1.   813.   −1.56754   5.40663   100.   ?   1632.
S_Acido_new%gi|68567478|gb|AAY80407.1| LSILASK%::::::PHOS::%sample_2%cmpd_318
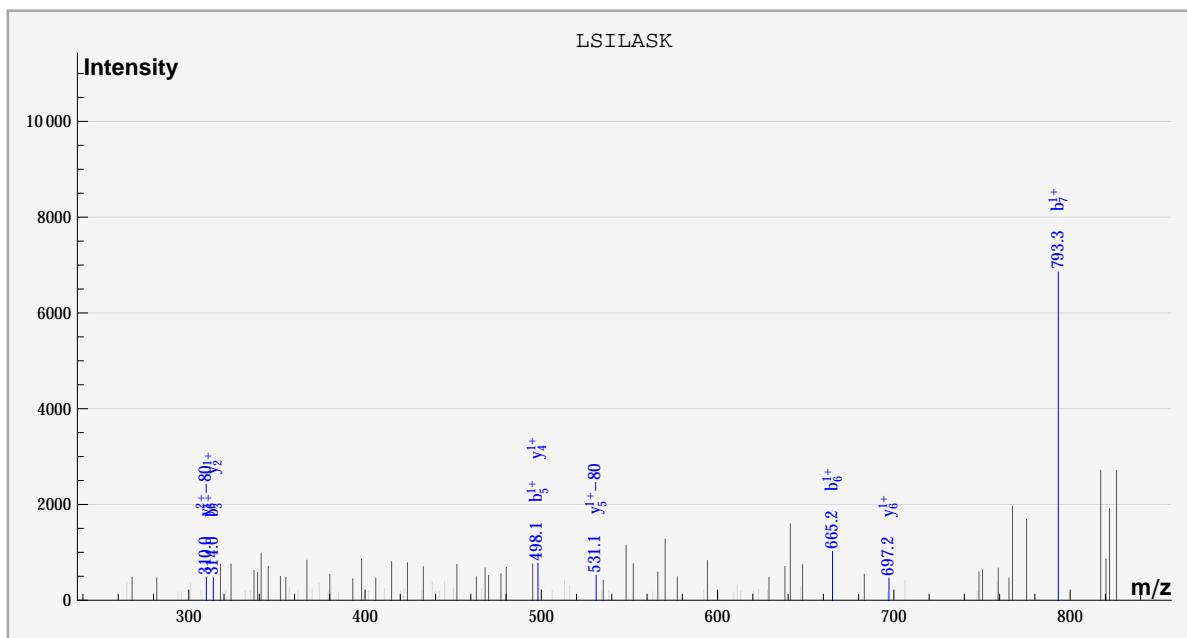
#	b	b*	#	y	y*	P	P*
L	1						
S	2		6	✓	✓		
I	3	✓	5		✓		
L	4		4	✓			
A	5	✓	3				
S	6	✓	2	✓			
K	7	✓	1				
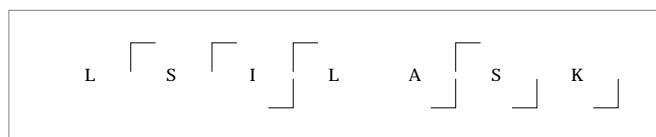
dbValid   true   GKYNLYKYSQER   PHOS(1)   2.   814.   0.877052   5.47365   100.   ?   1830.
   S_Acido_new%gi|68568256|gb|AAY81185.1| GKYNLYKYSQER%:::PHOS::::::::::%sample_1%cmpd_520
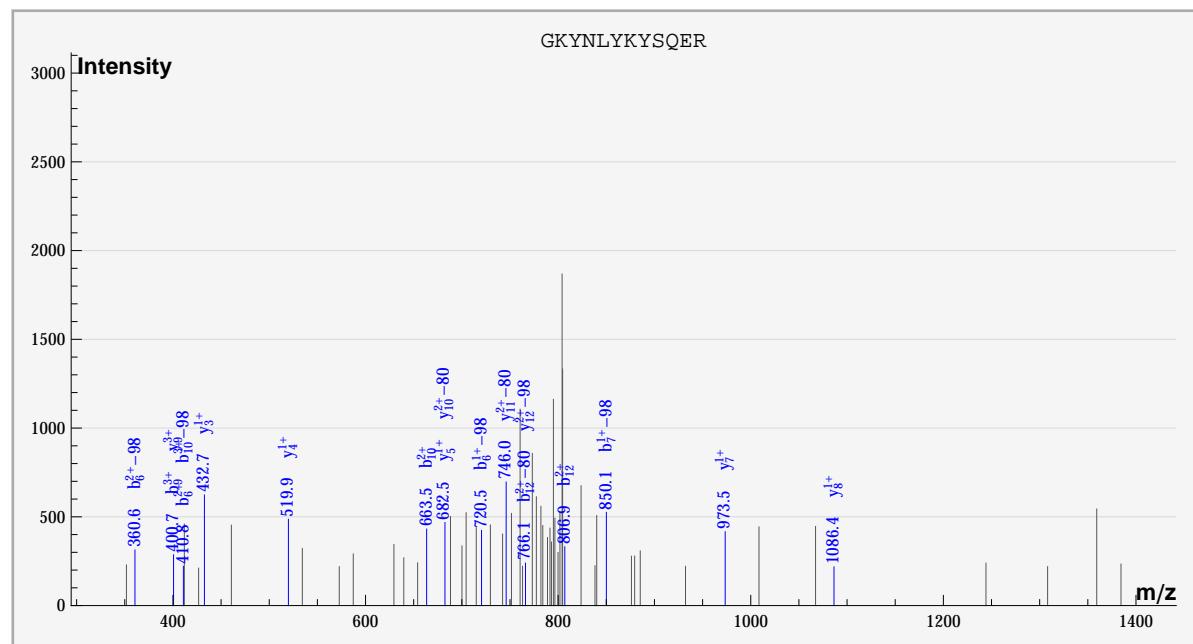

	♯	b	b*	♯	y	y*	P	P*
G	1							✓
K	2			11		✓		
Y	3			10		✓		
N	4			9	✓			
L	5			8	✓			
Y	6	✓	✓	7	✓			
K	7		✓	6				
Y	8			5	✓			
S	9	✓		4	✓			
Q	10	✓	✓	3	✓			
E	11			2				
R	12	✓	✓	1				
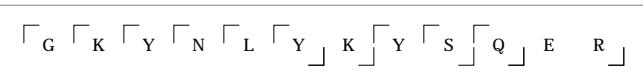
dbValid true YLKSIVNVTKPK PHOS(3) 2. 814. 1.37629 5.66091 100. ? 1938.
S_Acido_new%gi|68567982|gb|AAY80911.1| YLKSIVNVTKPK%:PHOS:::PHOS:::::PHOS::::%sample_1%cmpd_620
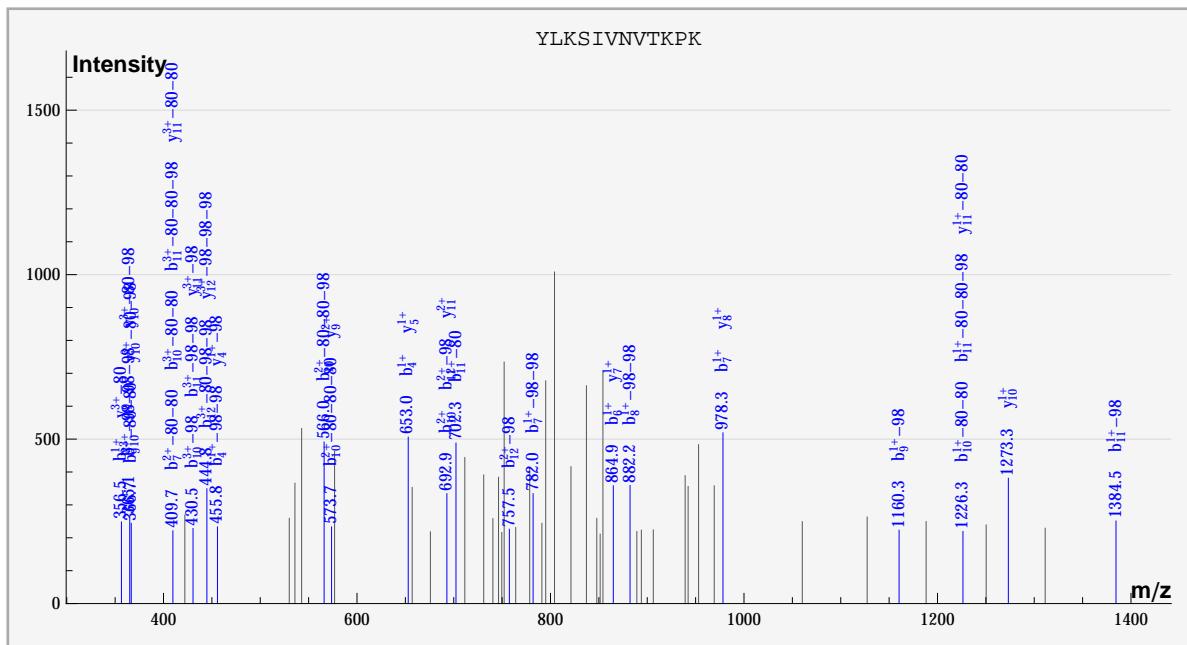
|	#	b	b*	#	y	y*	P	P*
Y	1							✓
L	2	✓		11	✓	✓		
K	3			10	✓	✓		
S	4	✓	✓	9	✓	✓		
I	5			8	✓			
V	6	✓		7	✓			
N	7	✓	✓	6				
V	8		✓	5	✓			
T	9		✓	4		✓		
K	10	✓	✓	3				
P	11		✓	2				
K	12		✓	1				

⌐Y ⌐L ⌐K ⌐S ⌐I ⌐V ⌐N ⌐V ⌐T ⌐K ⌐P ⌐K⌐

dbValid true IPYPVSG PHOS(1) 1. 814. −1.64104 6.21365 100. ? 2664.
   S_Acido_new%gi|68568416|gb|AAY81345.1| IPYPVSG%::::::PHOS::%sample_1%cmpd_1287
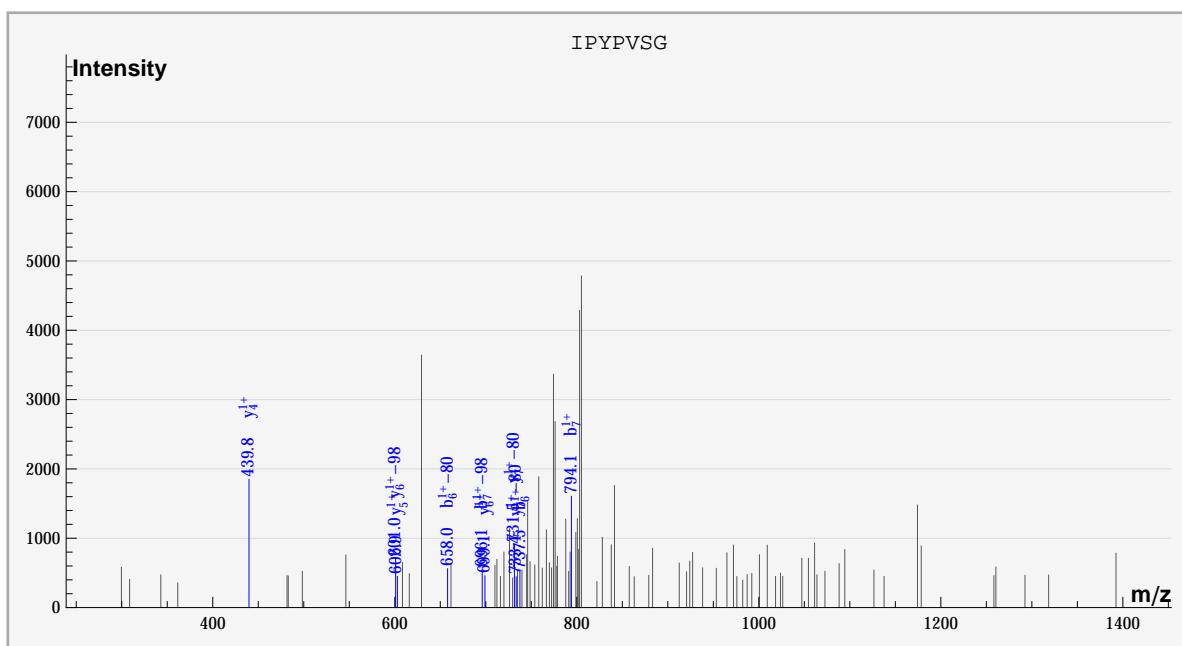
|	♯	*b*	*b**	♯	*y*	*y**	**P**	**P***
I	1							✓
P	2			6	✓	✓		
Y	3			5	✓			
P	4			4	✓			
V	5			3				
S	6	✓	✓	2				
G	7	✓	✓	1				
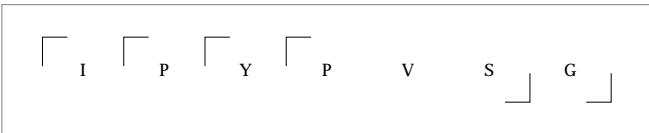
dbValid true GIEWTK PHOS(1) 1. 815. −1.64579 5.20903 100. ? 2376.
   S_Acido_new%gi|68566862|gb|AAY79791.1| GIEWTK%:::::PHOS::%sample_1%cmpd_1021

	#	b	b*	#	y	y*	P	P*
G	1						✓	✓
I	2			5	✓	✓		
E	3			4	✓			
W	4			3	✓			
T	5		✓	2				
K	6	✓	✓	1				
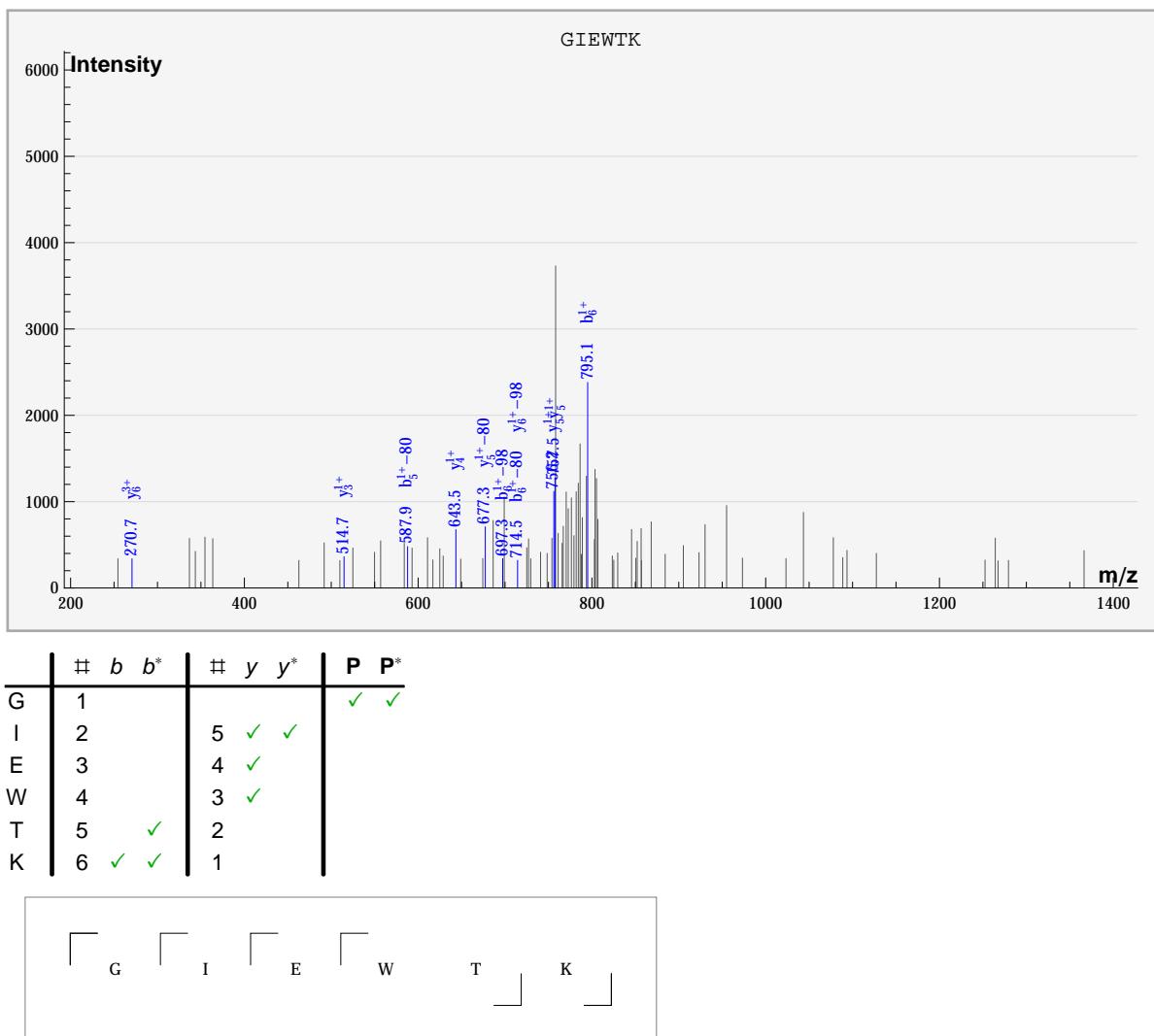
dbValid true LINVDLTTQEGKSK PHOS(1) 2. 815. −1.58908 5.13338 100. ? 2544.
S_Acido_new%gi|68567037|gb|AAY79966.1| LINVDLTTQEGKSK%::::::::::::PHOS::%sample_2%cmpd_1089
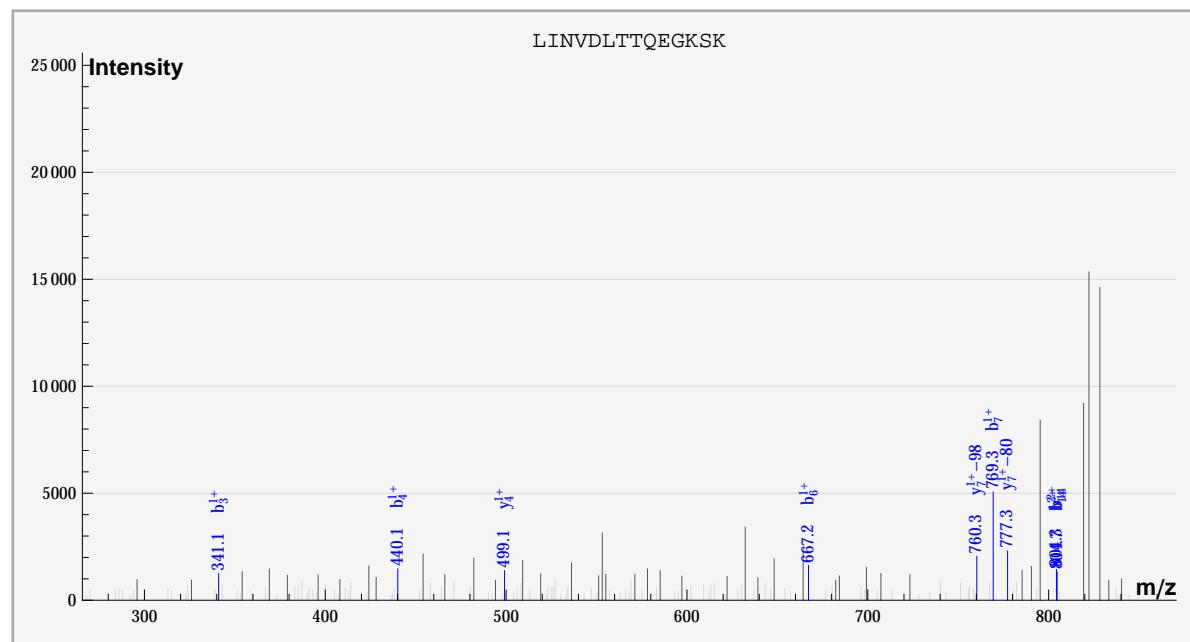
	#	b	b*	#	y	y*	P	P*
L	1							
I	2			13				
N	3	✓		12				
V	4	✓		11				
D	5			10				
L	6	✓		9				
T	7	✓		8				
T	8			7		✓		
Q	9			6				
E	10			5				
G	11			4	✓			
K	12			3				
S	13			2				
K	14	✓		1				

L I N V D L T T Q E G K S K

dbValid true EYTKLAITYSRK PHOS(2) 2. 815. 1.87532 5.50182 100. ? 3234.
S_Acido_new%gi|68566534|gb|AAY79463.1| EYTKLAITYSRK%::PHOS:PHOS:::::::::::%sample_2%cmpd_1666
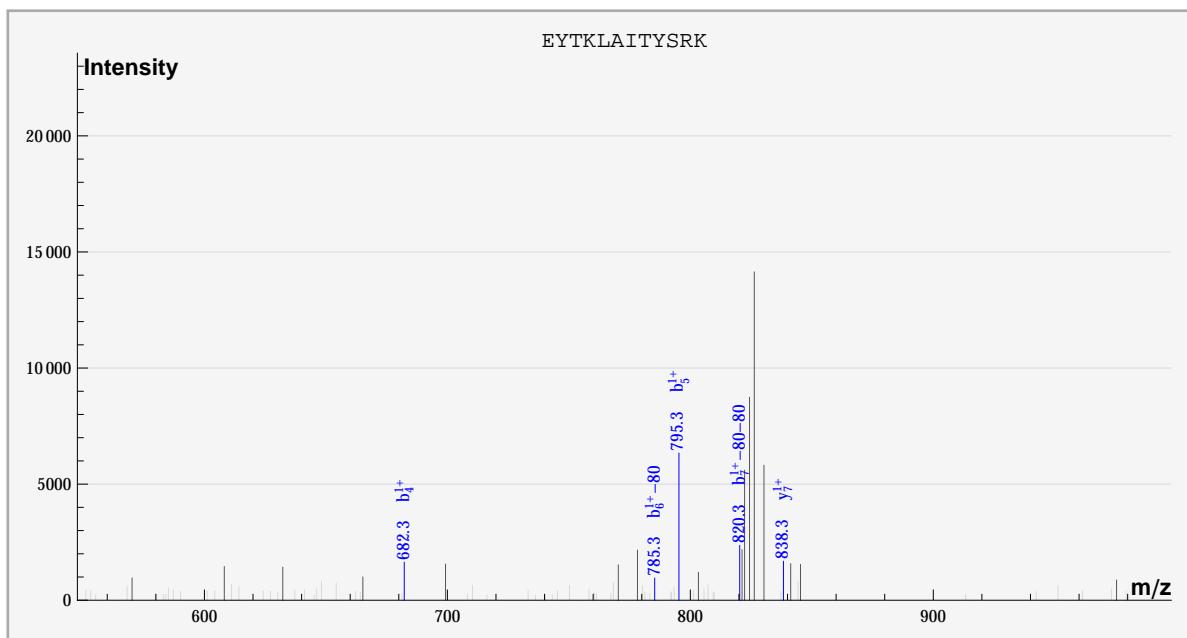

	#	b	b*	#	y	y*	P	P*
E	1							
Y	2			11				
T	3			10				
K	4	✓		9				
L	5	✓		8				
A	6		✓	7		✓		
I	7		✓	6				
T	8			5				
Y	9			4				
S	10			3				
R	11			2				
K	12			1				

E   Y   T   K   L   A   I   T   Y   S   R   K

dbValid true ELYYQATSSSNK PHOS(3) 2. 815. 0.777347 5.50205 100. ? 3528.
S_Acido_new%gi|68566756|gb|AAY79685.1| ELYYQATSSSNK%:::PHOS::::::PHOS:PHOS:::%sample_1%cmpd_2076
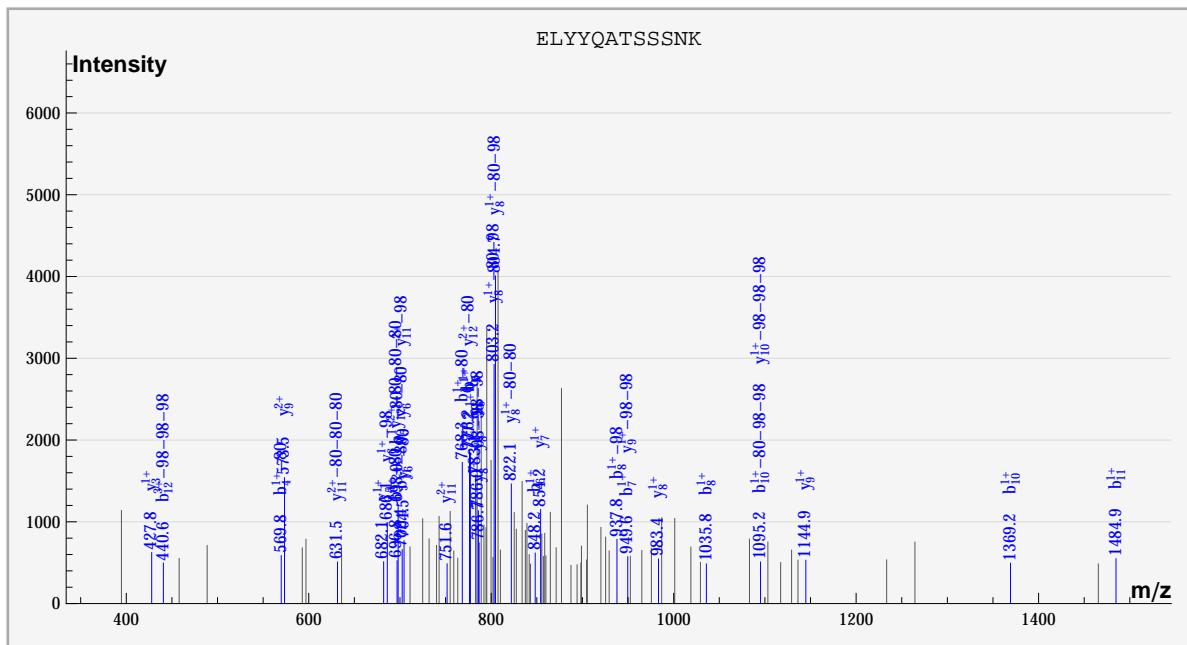

|	#	b	b*	#	y	y*	P	P*
E	1							✓
L	2			11	✓	✓		
Y	3			10		✓		
Y	4		✓	9	✓	✓		
Q	5	✓	✓	8	✓	✓		
A	6	✓	✓	7	✓			
T	7	✓		6	✓	✓		
S	8	✓	✓	5	✓			
S	9			4				
S	10	✓	✓	3	✓			
N	11	✓	✓	2				
K	12		✓	1				

dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.56373 100. ? 2388.
S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_960
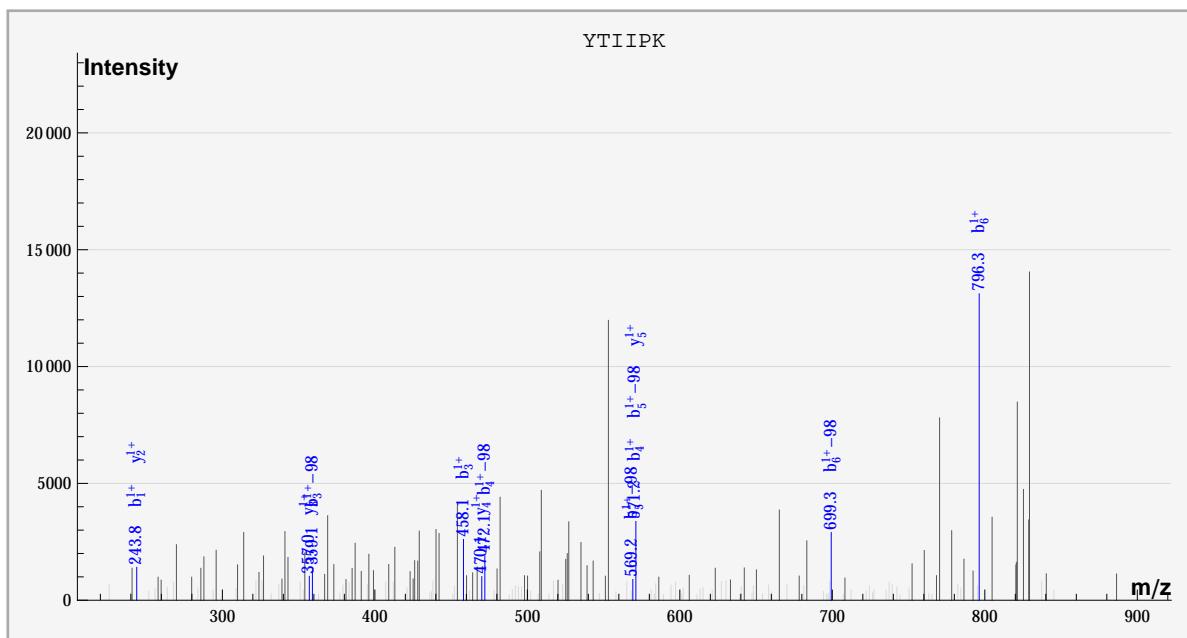

| ♯	b	b*	♯	y	y*	P	P*
Y	1	✓					
T	2			5	✓		
I	3	✓	✓	4	✓		
I	4	✓	✓	3	✓		
P	5		✓	2	✓		
K	6	✓	✓	1			
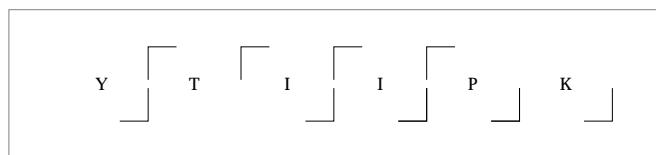
dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.32114 100. ? 2400.
S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_970
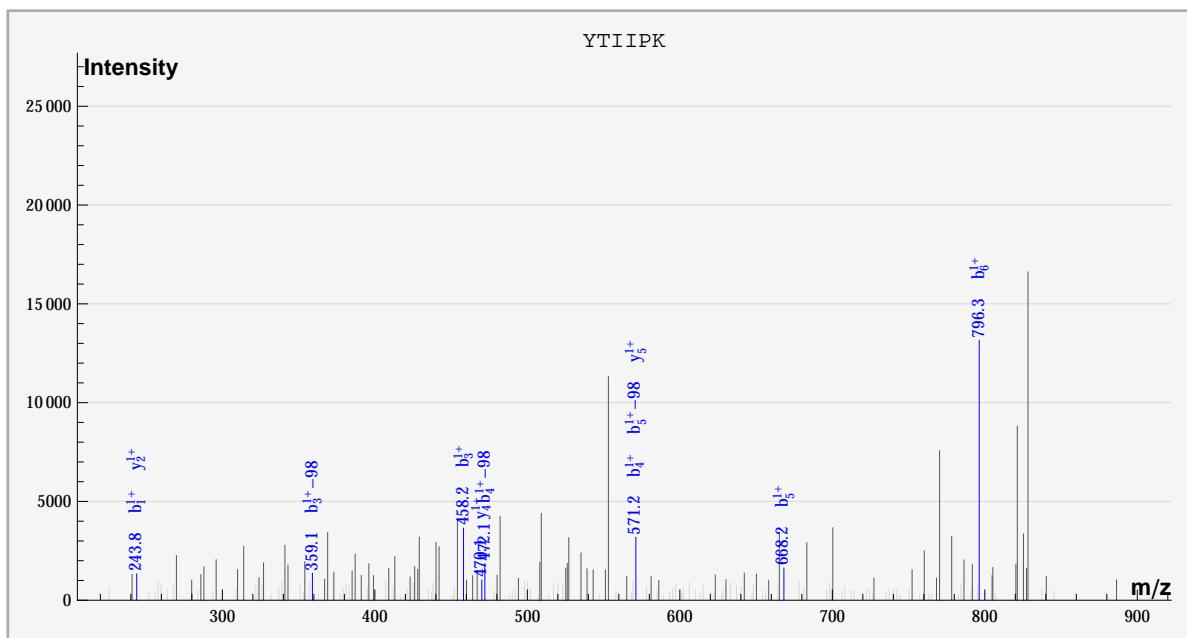
| ♯	b	b*	♯	y	y*	P	P*
Y	1	✓						
T	2			5	✓		
I	3	✓	✓	4	✓		
I	4	✓	✓	3			
P	5	✓	✓	2	✓		
K	6	✓		1			
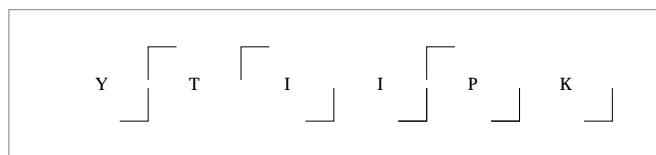
dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.60153 100. ? 2412.
S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_980
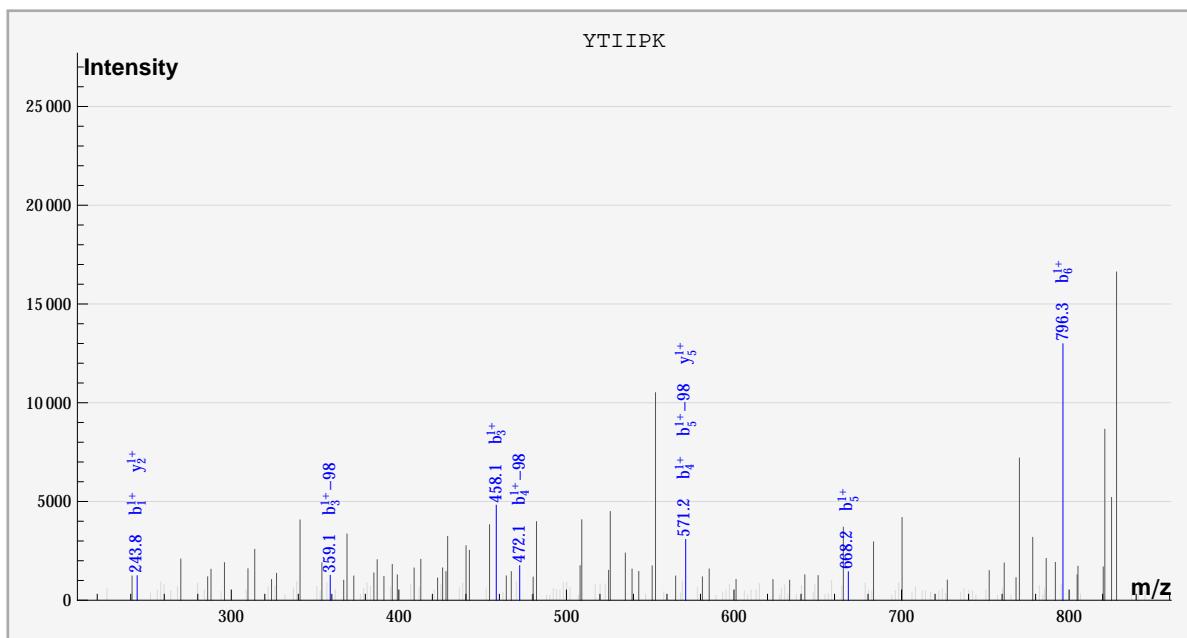
#	b	b*	#	y	y*	P	P*
Y	1	✓					
T	2		5	✓			
I	3	✓	✓	4			
I	4	✓	✓	3			
P	5	✓	✓	2	✓		
K	6	✓		1			
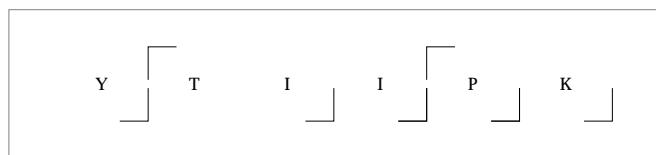
dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.62311 100. ? 2424.
    S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_991
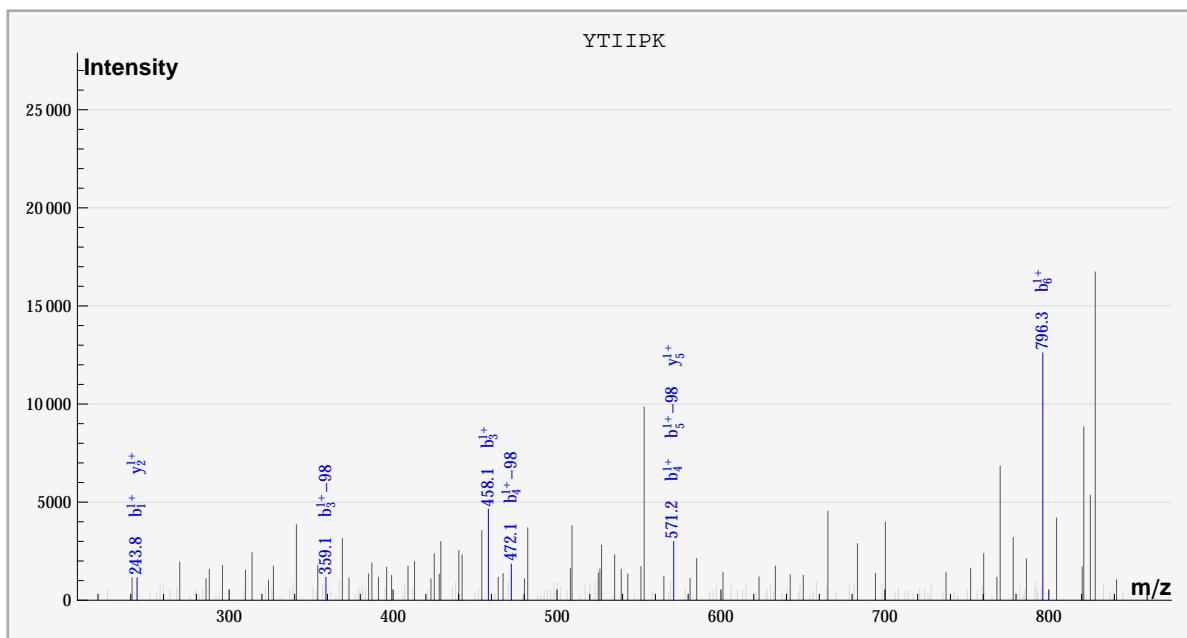

♯	b	b*	♯	y	y*	P	P*
Y	1	✓					
T	2		5	✓			
I	3	✓ ✓	4				
I	4	✓ ✓	3				
P	5	✓	2	✓			
K	6	✓	1				
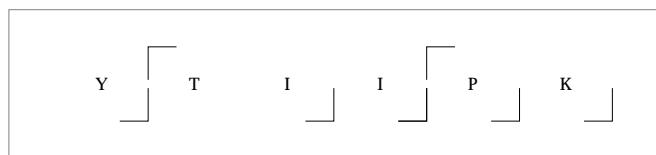
dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.16698 100. ? 2436.
  S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_1001
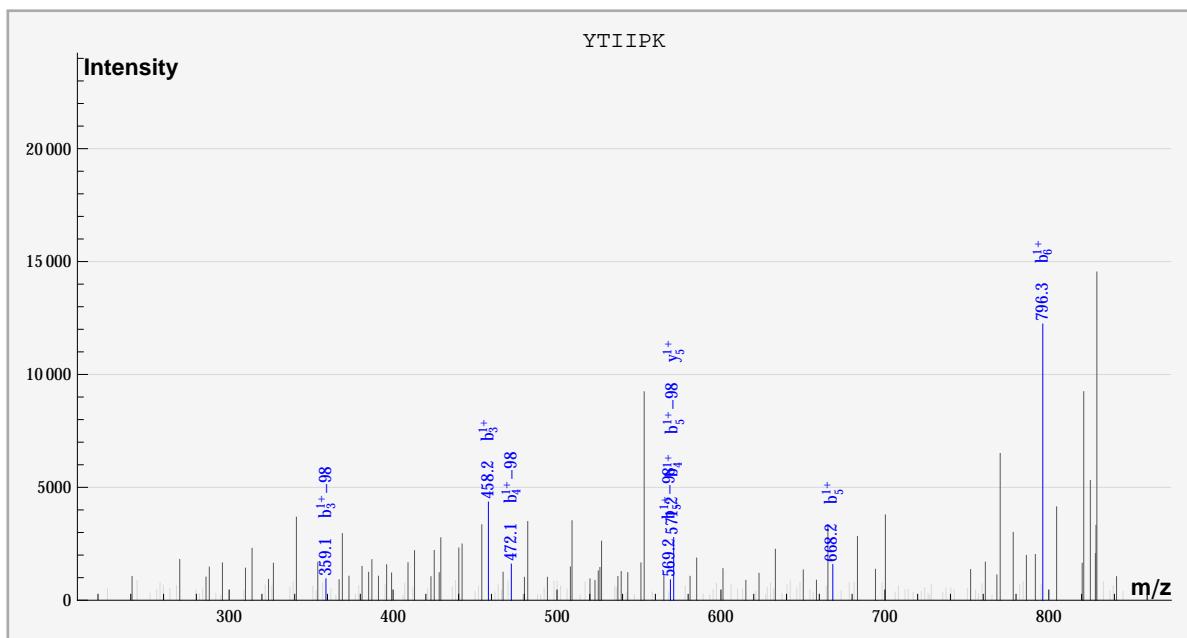
♯	b	b*	♯	y	y*	P	P*
Y	1							
T	2			5	✓			
I	3	✓	✓	4				
I	4	✓	✓	3				
P	5	✓	✓	2				
K	6	✓		1				
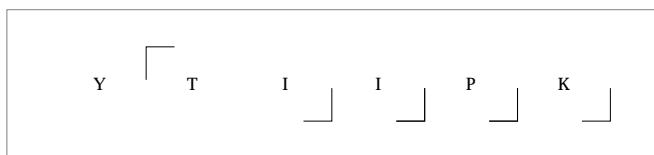
dbValid true YTIIPK PHOS(1) 1. 816. −1.589 5.24102 100. ? 2448.
S_Acido_new%gi|68567857|gb|AAY80786.1| YTIIPK%:PHOS::::::%sample_2%cmpd_1011
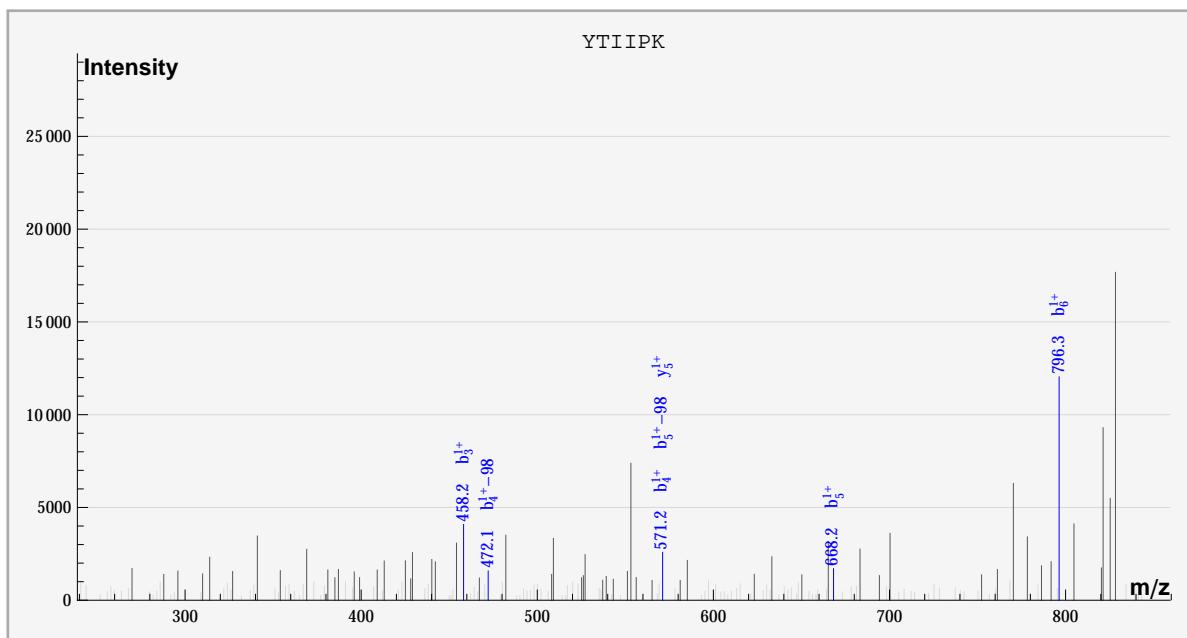

♯	b	b*	♯	y	y*	P	P*
Y	1						
T	2		5	✓			
I	3	✓	4				
I	4	✓	✓	3			
P	5	✓	✓	2			
K	6	✓	1				

dbValid true EYTKLAITYSRK PHOS(2) 2. 816. 0.875317 5.08277 100. ? 3210.
  S_Acido_new%gi|68566534|gb|AAY79463.1| EYTKLAITYSRK%::PHOS:PHOS:::::::::::%sample_1%cmpd_1789

|	#	b	b*		#	y	y*	P	P*
E	1								
Y	2				11		✓		
T	3	✓			10		✓		
K	4		✓		9				
L	5	✓	✓		8	✓			
A	6	✓	✓		7	✓			
I	7	✓	✓		6				
T	8		✓		5	✓			
Y	9		✓		4	✓			
S	10				3				
R	11		✓		2				
K	12		✓		1				

dbValid true EWRQMLFETWK PHOS(1) 2. 816. 1.36526 5.30934 100. ? 3858.
 S_Acido_new%gi|68568658|gb|AAY81587.1| EWRQMLFETWK%::::::::::PHOS:::%sample_1%cmpd_2376
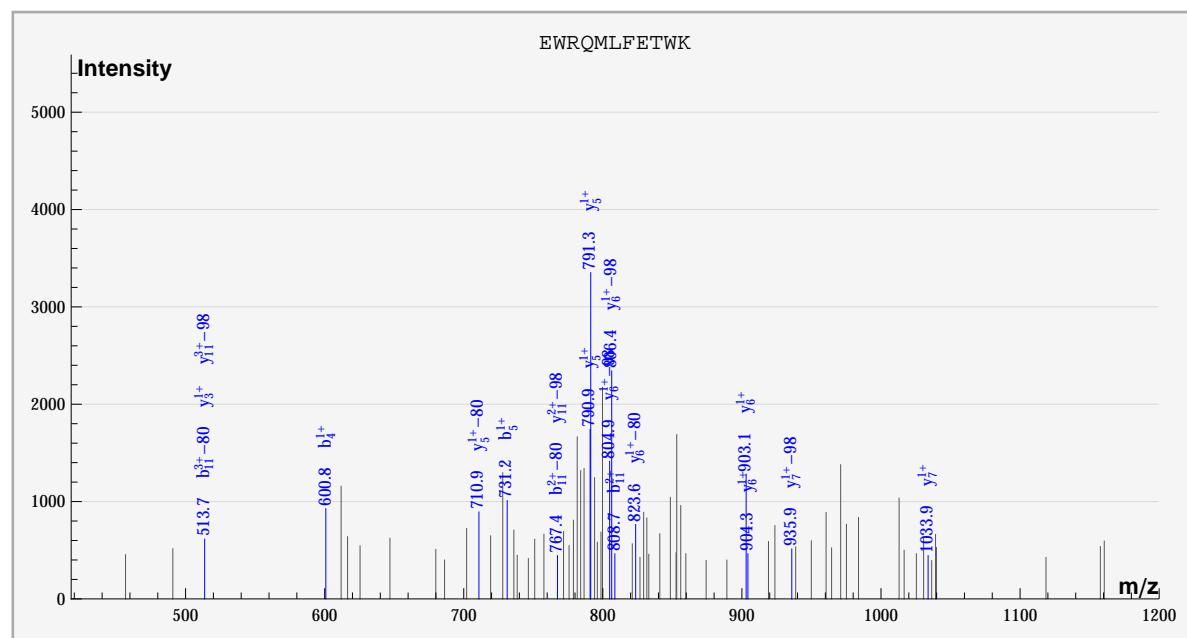
|	♯	b	b*	♯	y	y*	P	P*
E	1							✓
W	2			10				
R	3			9				
Q	4	✓		8				
M	5	✓		7	✓	✓		
L	6			6	✓	✓		
F	7			5	✓	✓		
E	8			4				
T	9			3	✓			
W	10			2				
K	11	✓	✓	1				
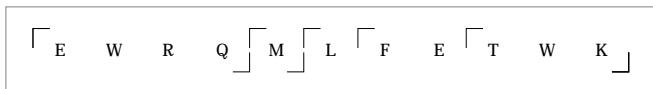
dbValid true RIMYNTARVLANK PHOS(1) 2. 817. −1.58164 5.68741 100. ? 2304.
S_Acido_new%gi|68568689|gb|AAY81618.1| RIMYNTARVLANK%::::PHOS::::::::::%sample_1%cmpd_956

RIMYNTARVLANK

|	♯	b	b*	♯	y	y*	P	P*
R	1							✓
I	2			12		✓		
M	3			11		✓		
Y	4	✓		10	✓			
N	5	✓		9	✓			
T	6	✓	✓	8				
A	7		✓	7	✓			
R	8	✓	✓	6	✓			
V	9	✓	✓	5				
L	10	✓		4	✓			
A	11	✓	✓	3	✓			
N	12	✓	✓	2				
K	13			1				

R I M Y N T A R V L A N K

dbValid true TIIFEI PHOS(1) 1. 817. −1.60499 5.87888 100. ? 2526.
S_Acido_new%gi|68567491|gb|AAY80420.1| TIIFEI%:PHOS::::::%sample_2%cmpd_1071
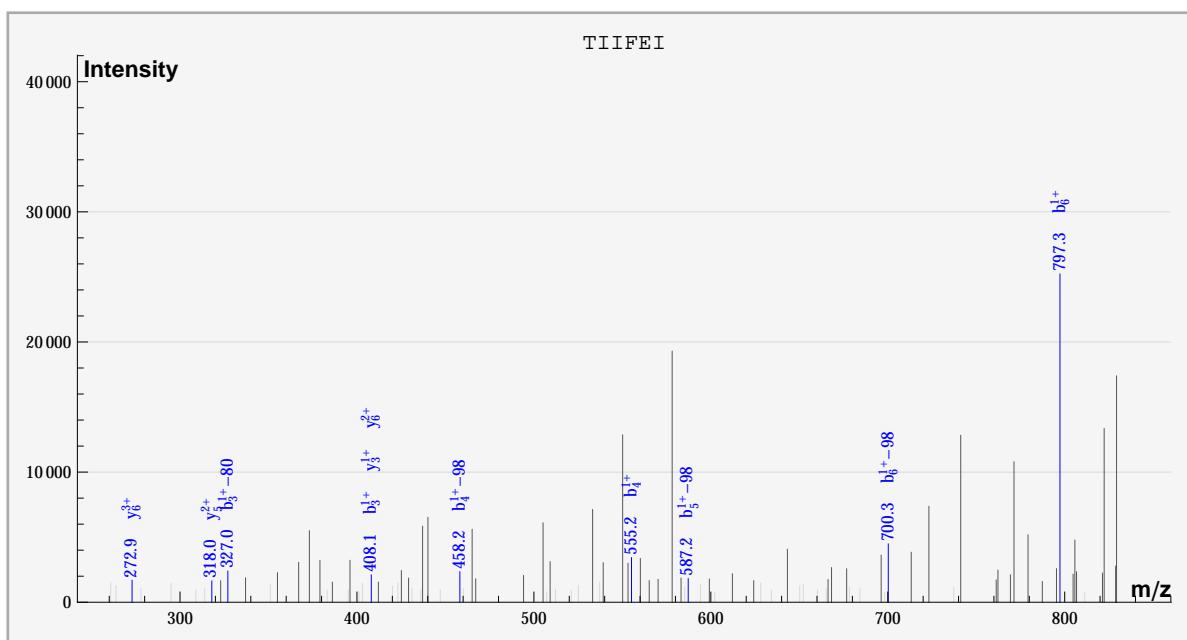
	#	b	b*	#	y	y*	P	P*
T	1						✓	
I	2			5	✓			
I	3	✓	✓	4				
F	4	✓	✓	3	✓			
E	5		✓	2				
I	6	✓	✓	1				
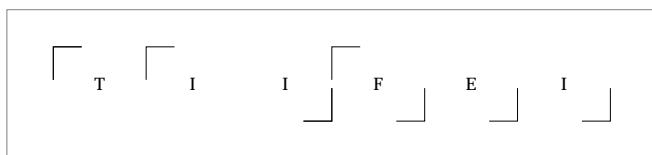
dbConflictWinner true TIIFEI PHOS(1) 1. 817. −1.60499 6.7741 100. ?
   2544. S_Acido_new%gi|68567491|gb|AAY80420.1| TIIFEI%:PHOS::::::%sample_2%cmpd_1091

TIIFEI

♯	b	b*	♯	y	y*	P	P*
T	1						✓	
I	2			5				
I	3	✓	✓	4				
F	4	✓	✓	3	✓			
E	5	✓		2				
I	6	✓	✓	1				