Supplemental Information

Structure of complement C3(H_2O) revealed by quantitative cross-linking/mass spectrometry and modelling

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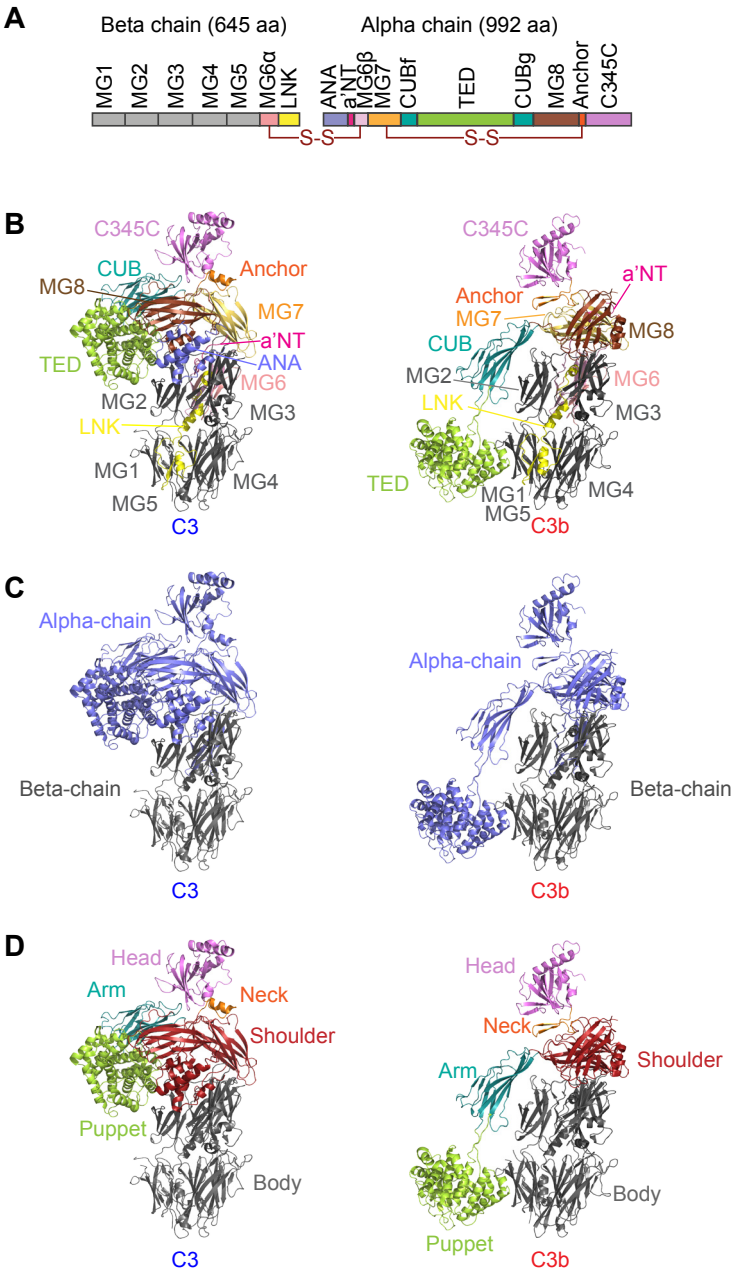
Paul N. Barlow*, Juri Rappsilber*

Supplemental Figure 1

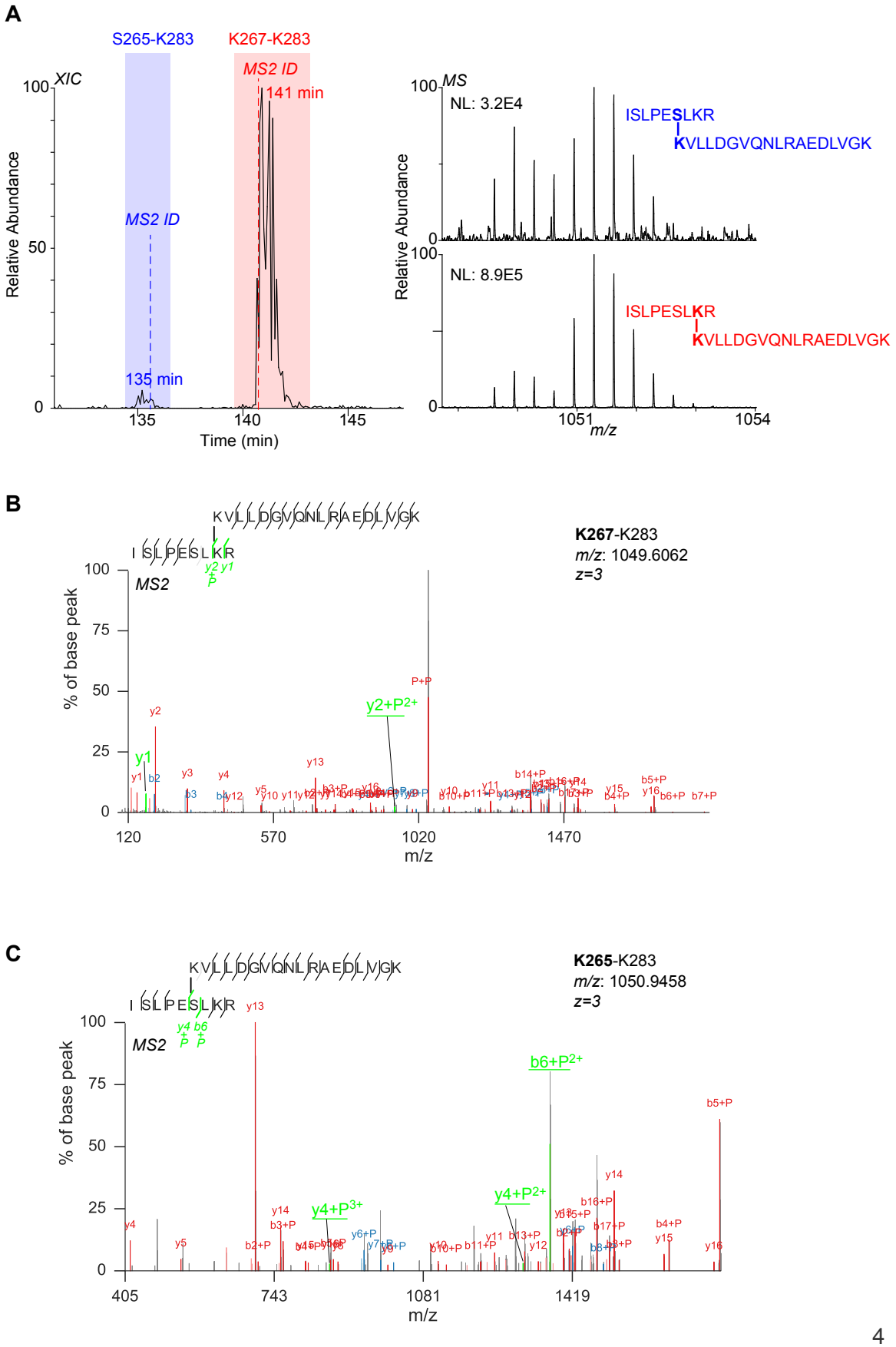


Supplemental Figure 1: Domain arrangements of C3 and C3b in the crystal structures

(A) Summary of the multiple domains of C3 (24). (**B**) Domains of C3 and C3b are coloured and labelled in the crystal structures of C3 (PDB|2A73) and C3b (PDB|2I07) (the same PDB entries are used for C and D). (**C**) The α-chain and the β-chain of C3/C3b are coloured and labelled in the crystal structures of C3 and C3b (**D**) The crystal structures of C3 and C3b are coloured and labelled according to the metaphor of a puppeteer (1).

1. Janssen, B. J., Christodoulidou, A., McCarthy, A., Lambris, J. D., and Gros, P. (2006) Structure of C3b reveals conformational changes that underlie complement activity. Nature 444, 213-216

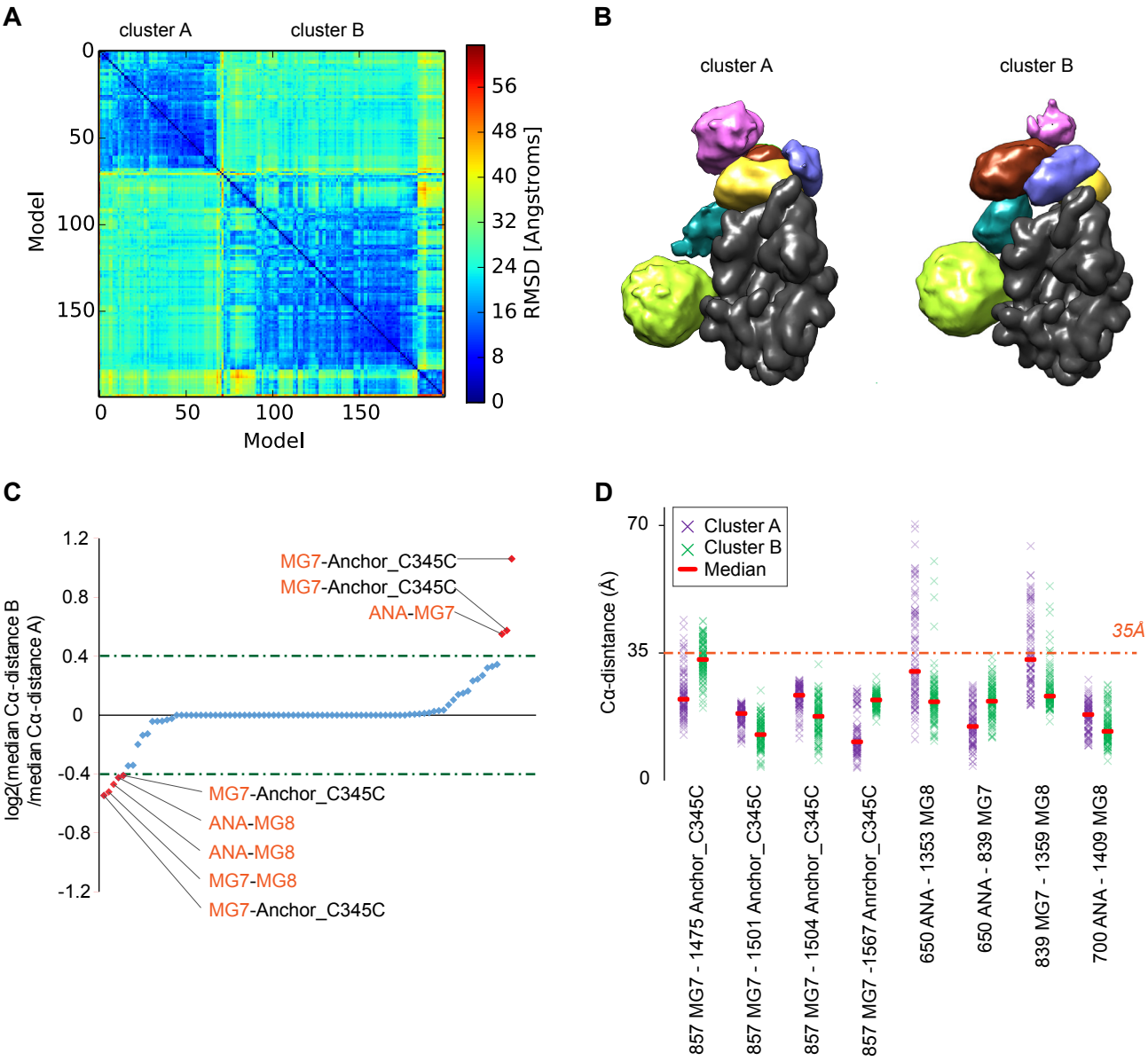
Supplemental Figure S2



Supplemental Fig S2. Assessment of cross-link site assignment

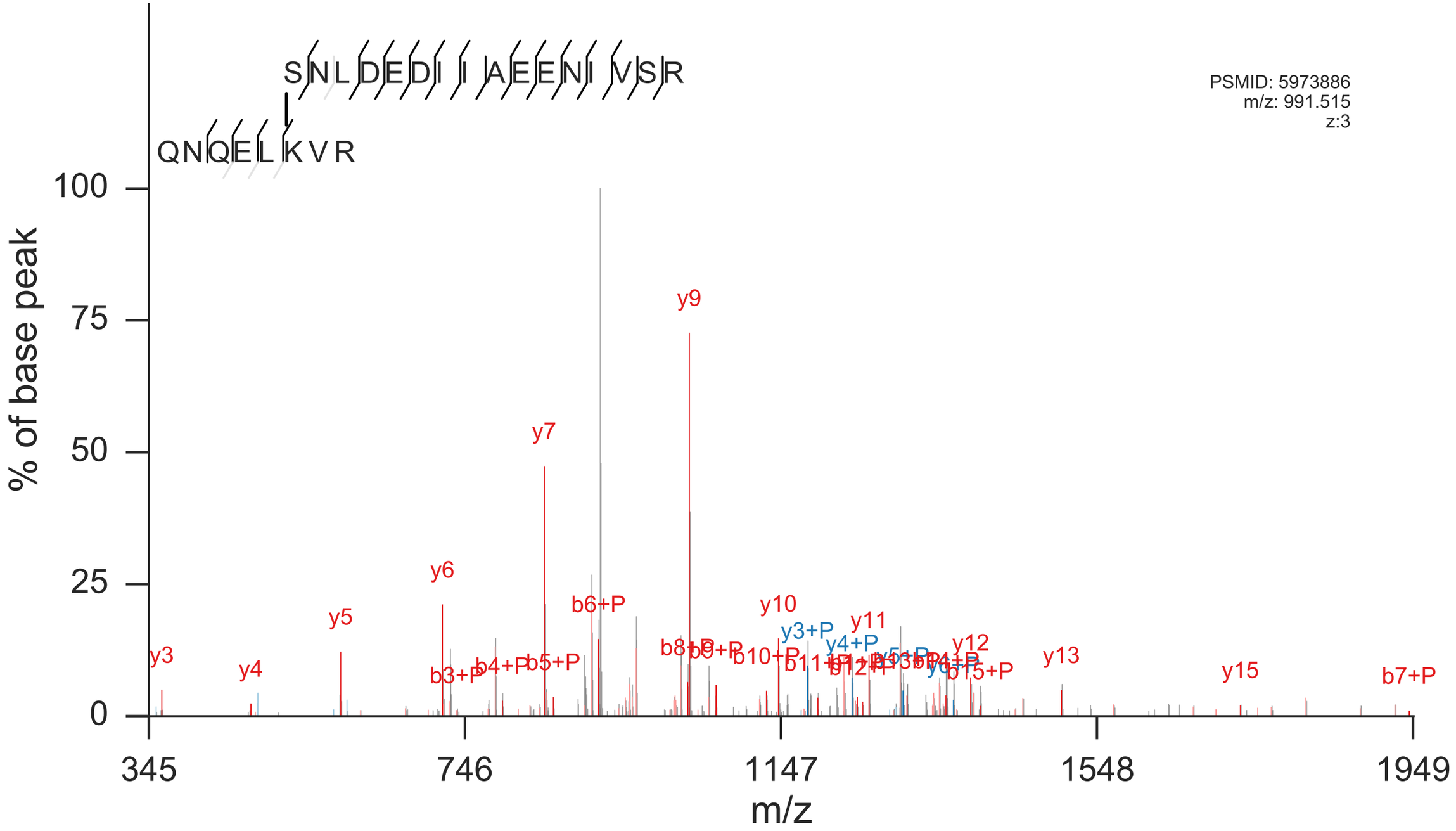
Assessment of site assignment of cross-linked peptides is demonstrated using an example. (A)The peptides ISLPESLKR and KVLLDGVQNLRAEDLVGK were found cross-linked in two ways, once linking 267K and 283K and once linking 265S and 283K. The 267K – 283K linked peptide eluted with a retention time of 141 minute from our HPLC system and was assigned this linkage based on back-bone fragments y1 and y2+P ions that flank 267K (annotated spectrum shown in(B)). 265S – 283K is placed in close sequence proximity to 267K – 283K. Given the much higher reactivity of NHS-esters to K when compared to S, special caution needed to be employed when calling 265S – 283K. 265S is supported over 267K in the matching fragmentation spectrum by the observation of b6+P and y4+P ions that flank 265S (annotated spectrum shown in (C)). In addition, the 265S – 283K peptide eluted at 135 minute in a base line separated peak from our HPLC system. Notably, the intensity of this peptide is much lower than that carrying the 267K – 283K link as one might expect considering the reactivity difference of S and K.

Supplemental Figure S3



Supplementary Figure 3. Clustering of C3(H_2O) solutions.

The 200 best scoring models (solutions) were partitioned into clusters, using the k-means clustering method. The two blue blocks of the pair-wise r.m.s.-distance matrix calculated between the 200 models **(A**) suggested the presence of at least two main clusters of similar structures. The resulting clusters (**B**) displayed a different orientation of MG8 (brown density) and ANA (violet density), with respect to the other domains. A comparison of the distances between cross-linked residues, in cluster A *versus* cluster B, is shown in (**C**). For each cross-link (displayed along the *x*-axis) the ratio (for cluster A *versus* cluster B) of median Cα-Cα distances is shown in the *y*-axis (log scale). Distances that differ most between the two clusters (red) all involve domains at the "shoulder" region of the molecule (ANA, MG7 and MG8). (**D**) For those cross-linked pairs of residues for which mean Cα-Cα distances differed between clusters A and B (highlighted in red in (**C**)), the Cα-Cα distance for every solution (shown as crosses, purple for cluster A and green for cluster B) are plotted. The median of the distribution is represented by a red line. Cluster B show better satisfaction on residue proximities defined by cross-links.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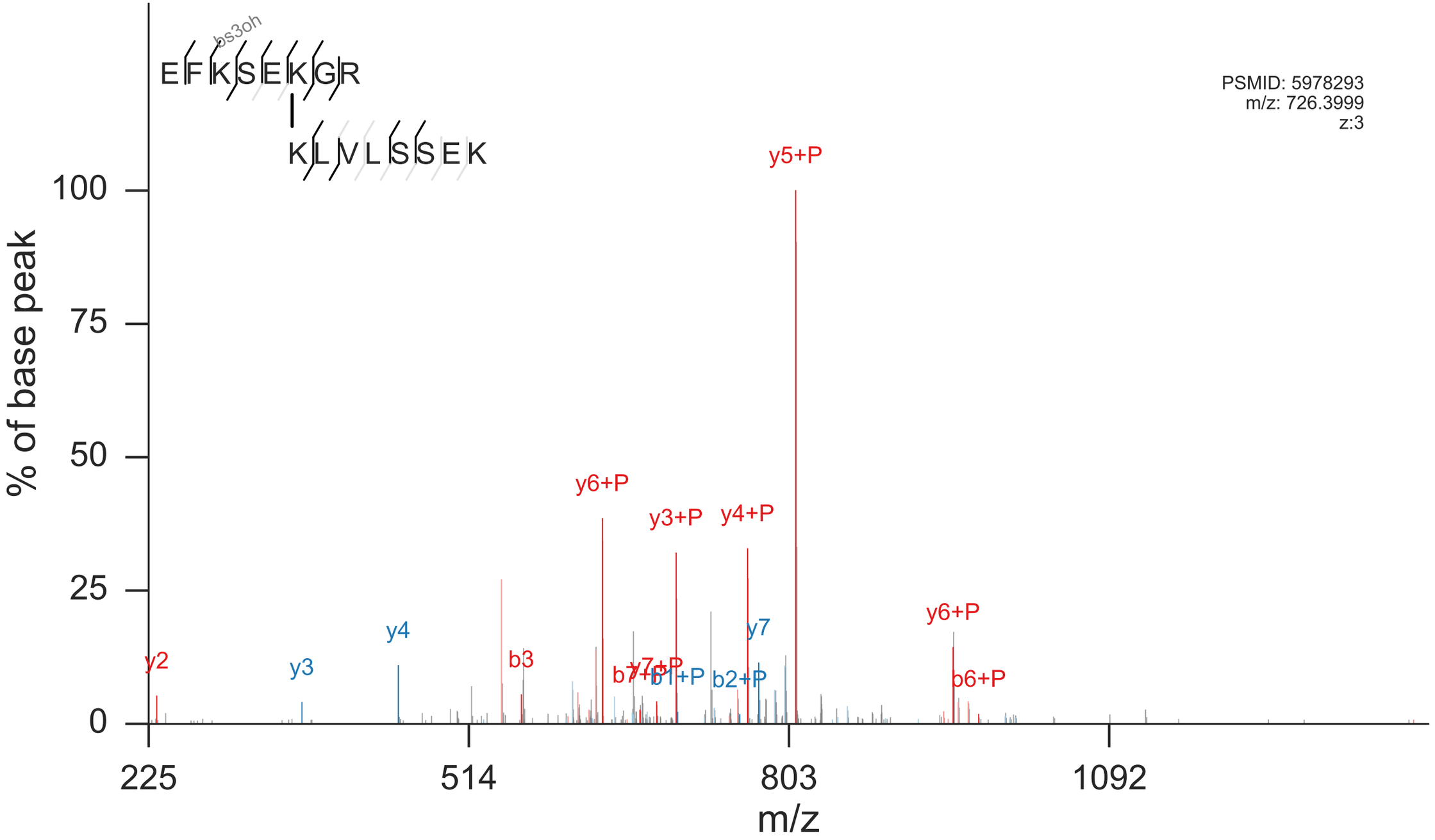
50
25
0
345
746
1147
1548
1949
m/z
y9
y7
y6
y5
y3
y4
b6+P
y10
y11
y3+P
y4+P
y12
y13
y15
b7+P
b3+P
b4+P
b5+P
b10+P
b15+P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z:3
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25
0
225
514
803
1092
m/z
y5+P
y6+P
y3+P
y4+P
y7
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y4
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y2
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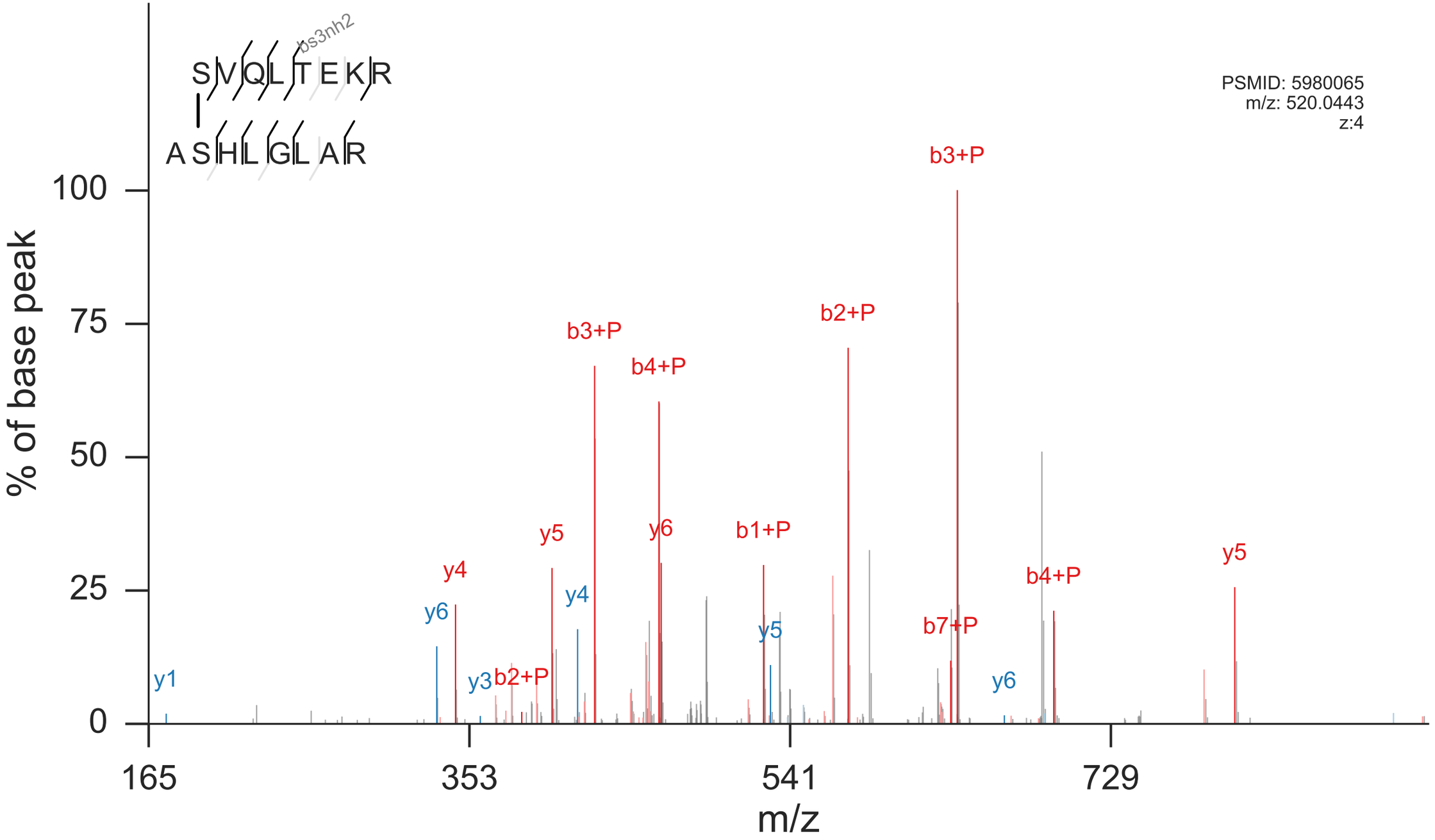
b2+P
b6+P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50
25
0
165
353
541
729
m/z
b3+P
b2+P
b3+P
b4+P
y5
y6
b1+P
y4
y4
y6
y5
b7+P
b4+P
y5
y1
y3
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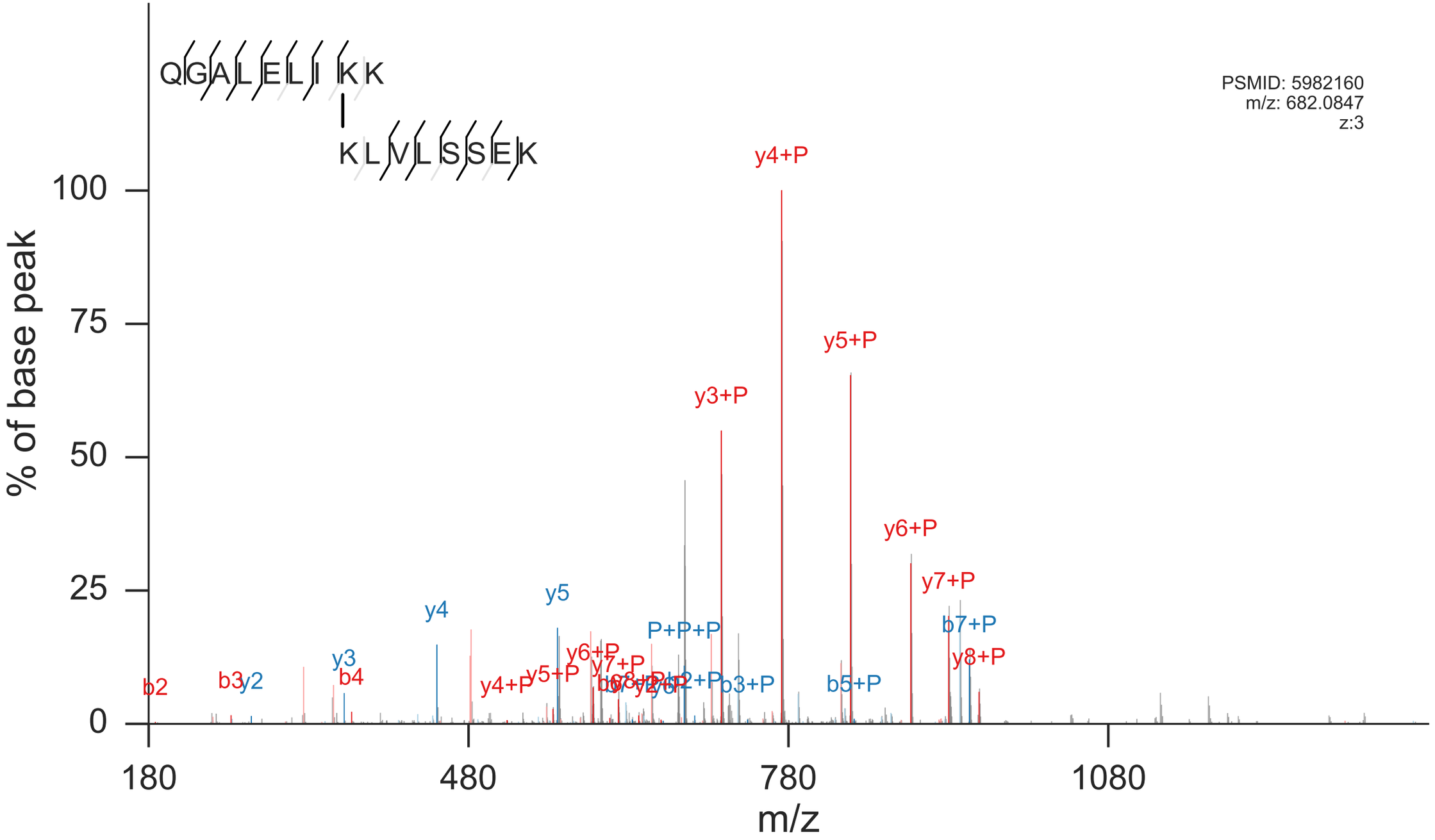
y6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KLVLSSEK
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z:3
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75
50
25
0
180
480
780
1080
m/z
y4+P
y5+P
y3+P
y6+P
y7+P
b7+P
y8+P
y5
y4
y3
P+P+P
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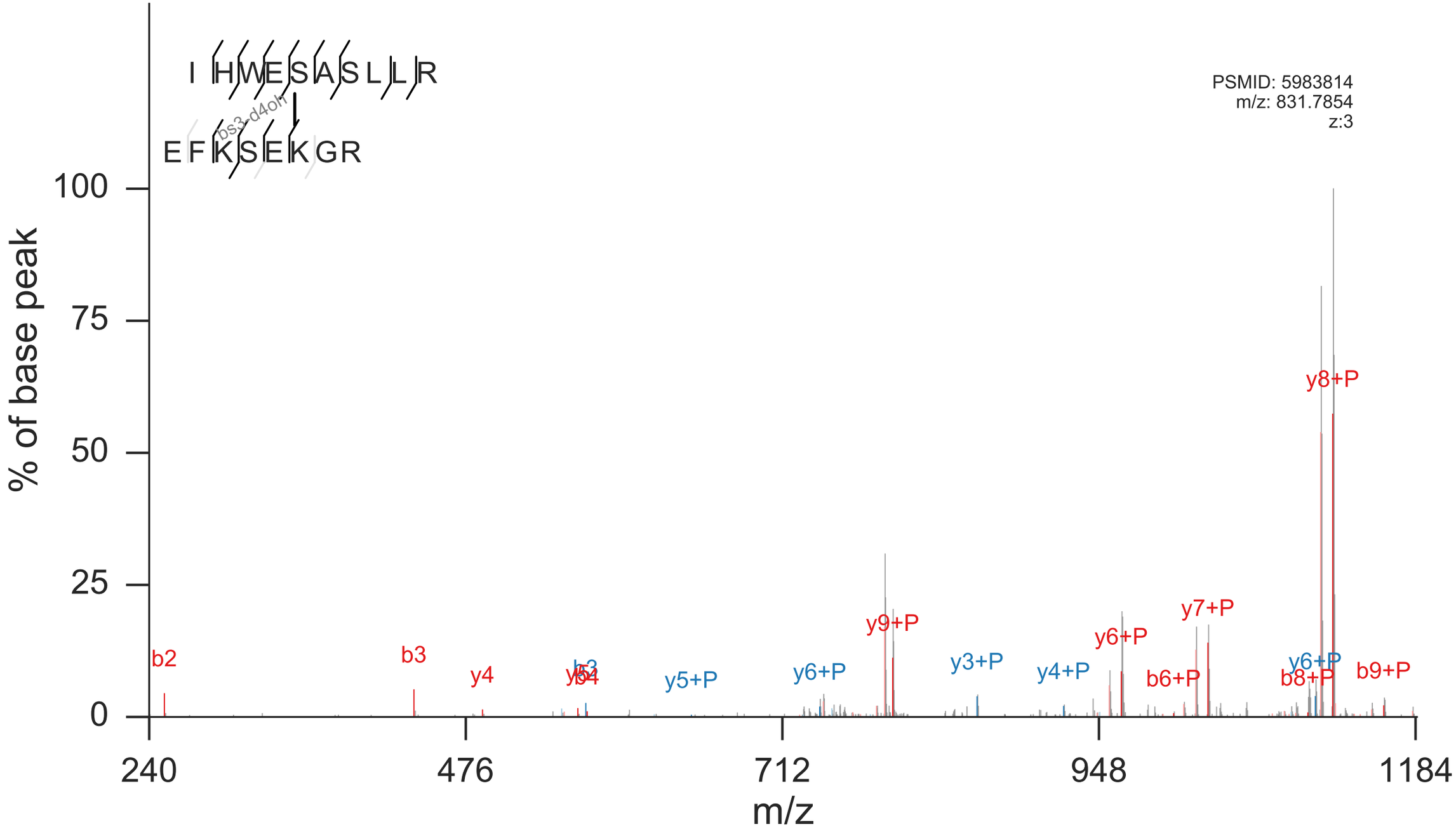
b3
y2
b4
y4+P
y5+P
y6+P
y7+P
b3+P
b5+P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E F K S E K G R
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z:3
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75
50
25
0
240
476
712
948
1184
m/z
b2
b3
y4
y5+P
y6+P
y9+P
y3+P
y4+P
y6+P
y7+P
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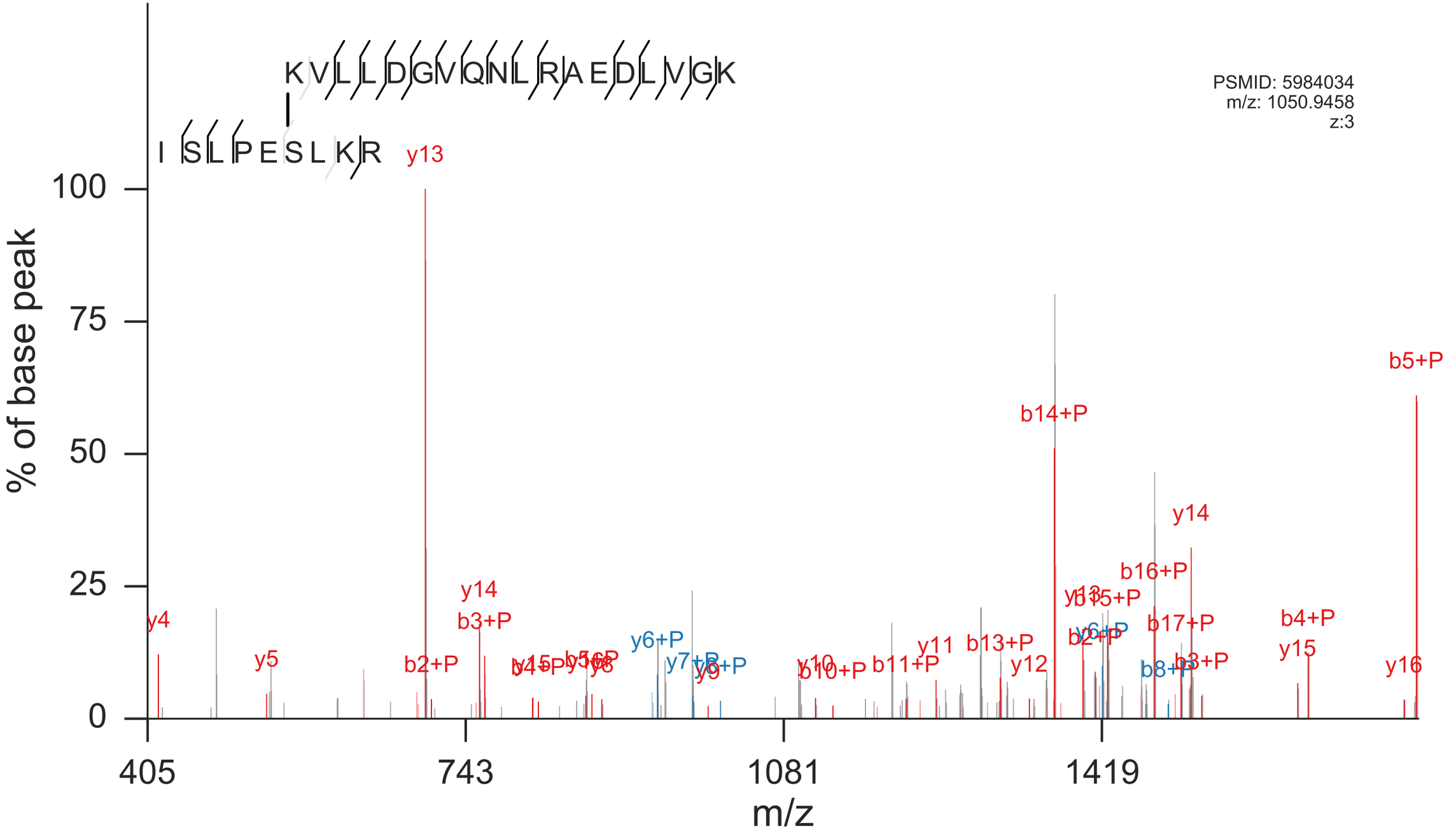
y8+P
y6+P
b8+P
b9+P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I S L P E S L K R
y13
PSMID: 5984034
m/z: 1050.9458
z:3
% of base peak
100
75
50
25
0
405
743
1081
1419
m/z
b5+P
b14+P
y14
b16+P
b15+P
b17+P
b4+P
y15
y16
b3+P
b8+P
y12
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y6+P
y14
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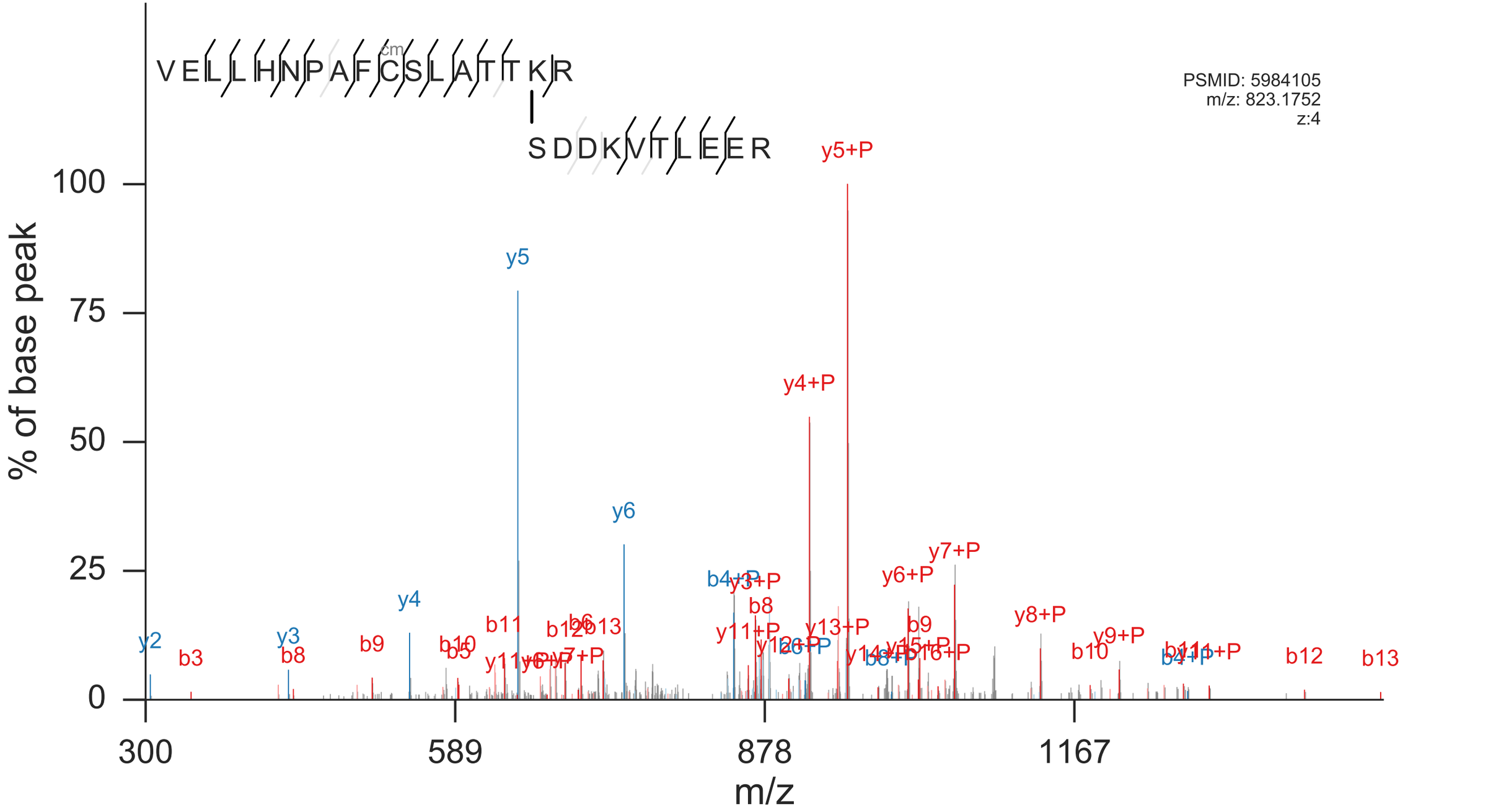
y4
y5
b2+P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cm
SDDKVTLEER
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z:4
% of base peak
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50
25
0
300
589
878
1167
m/z
y5+P
y5
y4+P
y6
y7+P
y6+P
y4
y3+P
b8
y8+P
y9+P
y2
b3
y3
b8
b9
b10
b5
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y13+P
b9
b10
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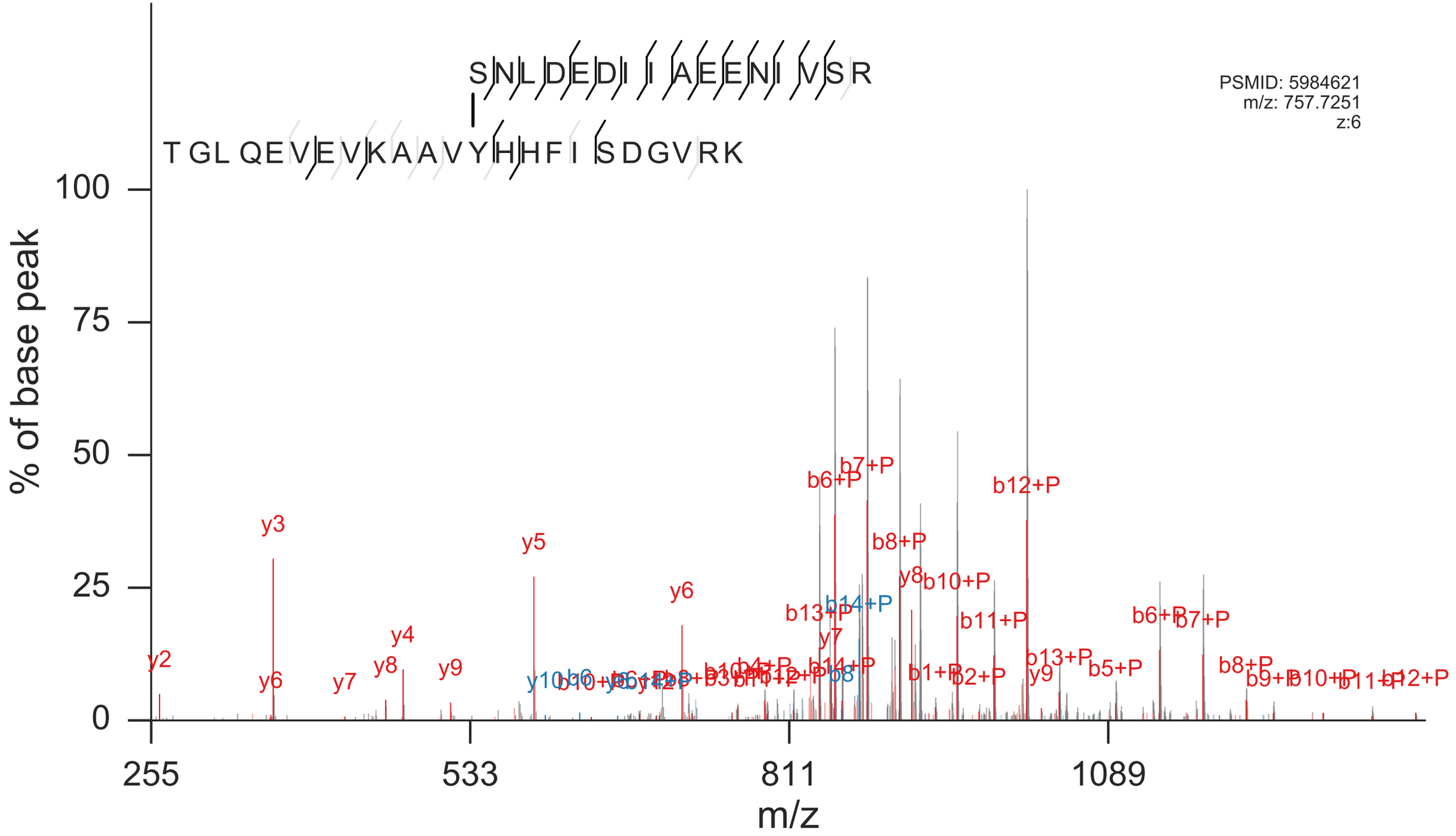
y11+P
y15+P
y16+P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% of base peak
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50
25
0
255
533
811
1089
m/z
y2
y3
y4
y5
y6
y7
y8
y9
b6+P
b7+P
b8+P
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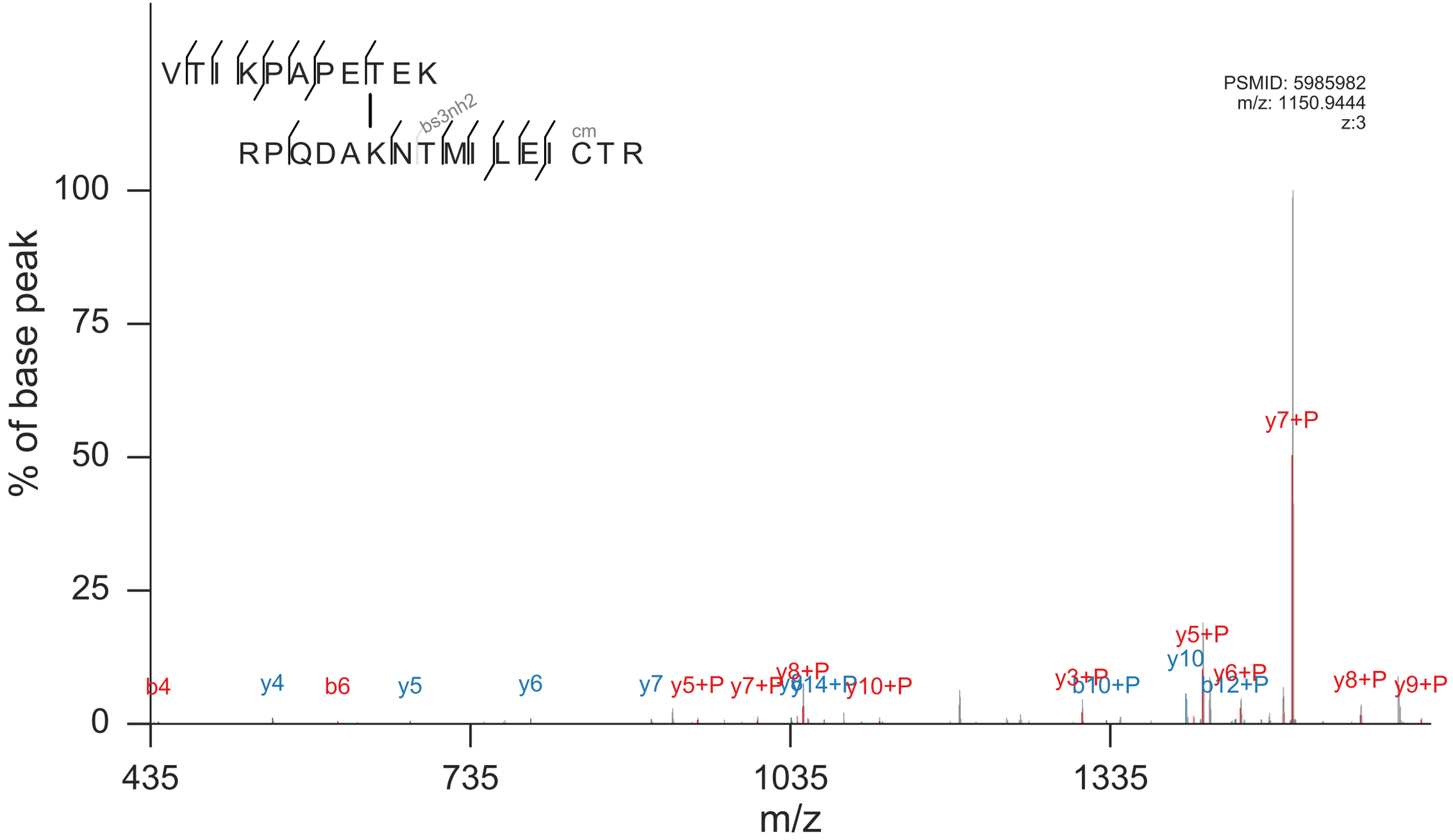
b1+P
b2+P
b5+P
b9+P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cm
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z:3
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75
50
25
0
435
735
1035
1335
m/z
b4
y4
b6
y5
y6
y7
y5+P
y7+P
y8+P
y14+P
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y6+P
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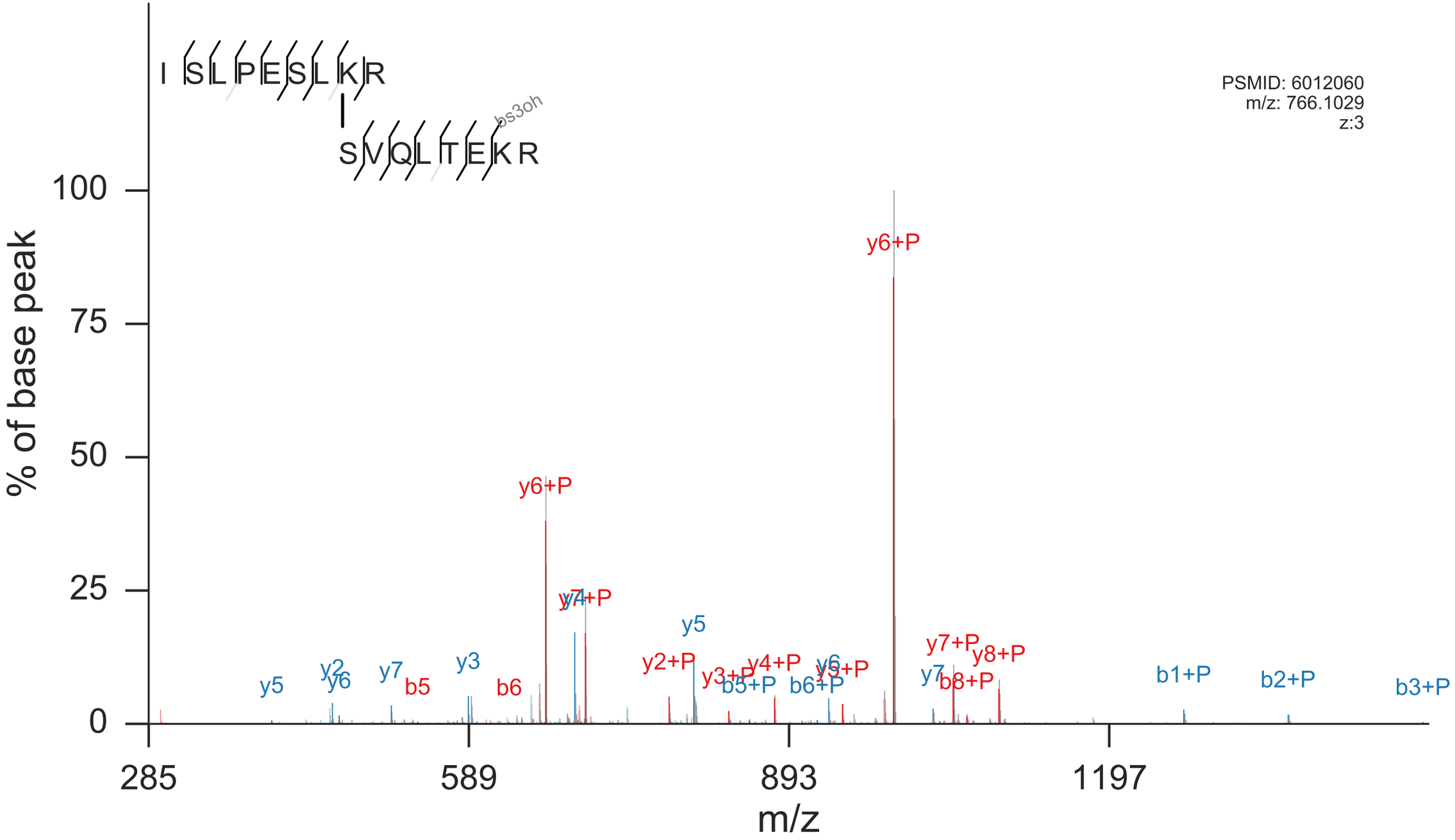
y8+P
y9+P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SVQLTEKR
bs3oh
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m/z: 766.1029
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% of base peak
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75
50
25
0
285
589
893
1197
m/z
y6+P
y6+P
y7+P
y5
y2
y6
y7
b5
y3
b6
y2+P
y3+P
y4+P
y6
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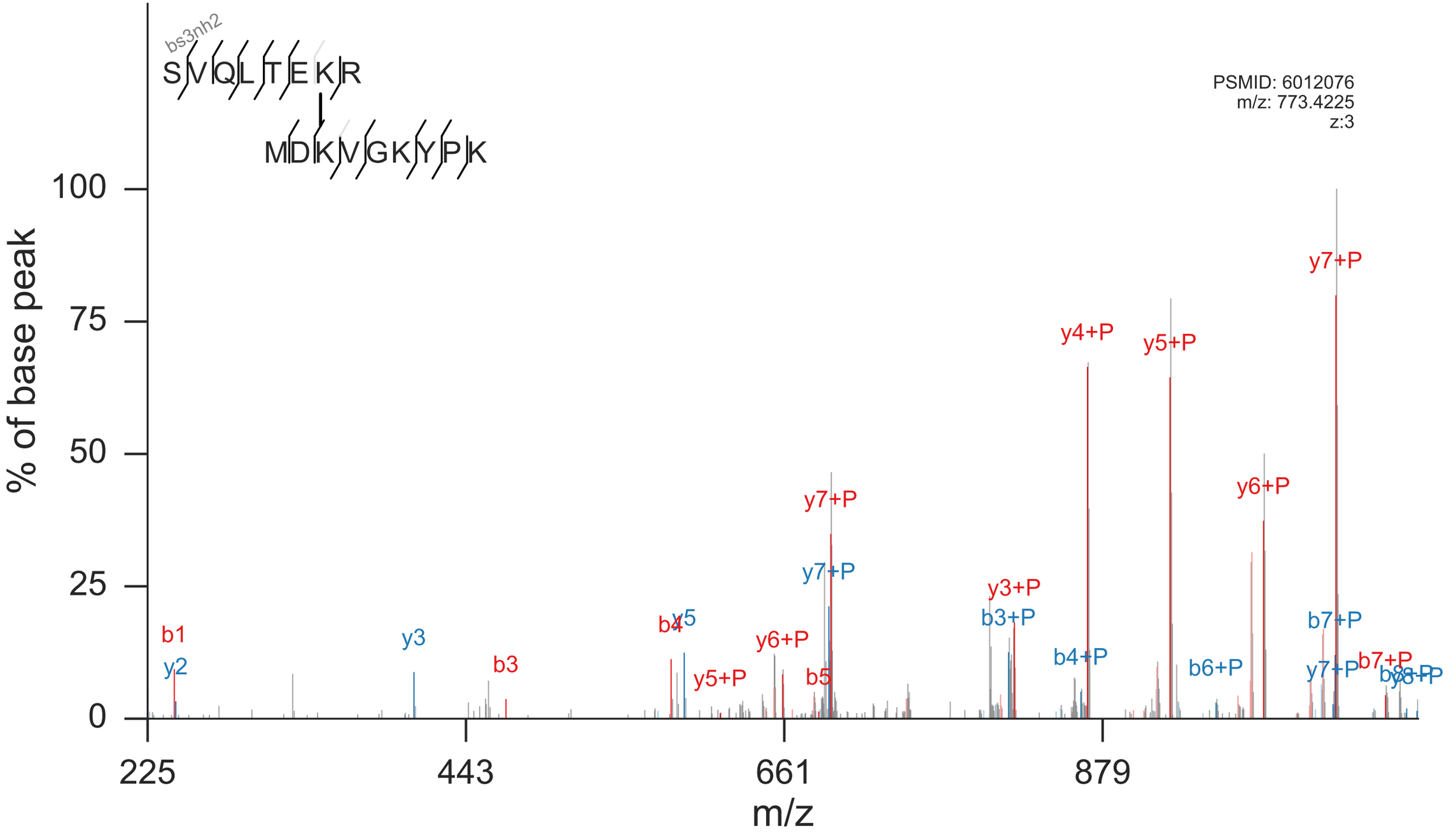
y8+P
y7
b8+P
b1+P
b2+P
b3+P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% of base peak
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75
50
25
0
225
443
661
879
m/z
b1
y2
y3
b3
b4
y5
y5+P
y6+P
y7+P
y7+P
b5
y3+P
b3+P
y4+P
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b7+P
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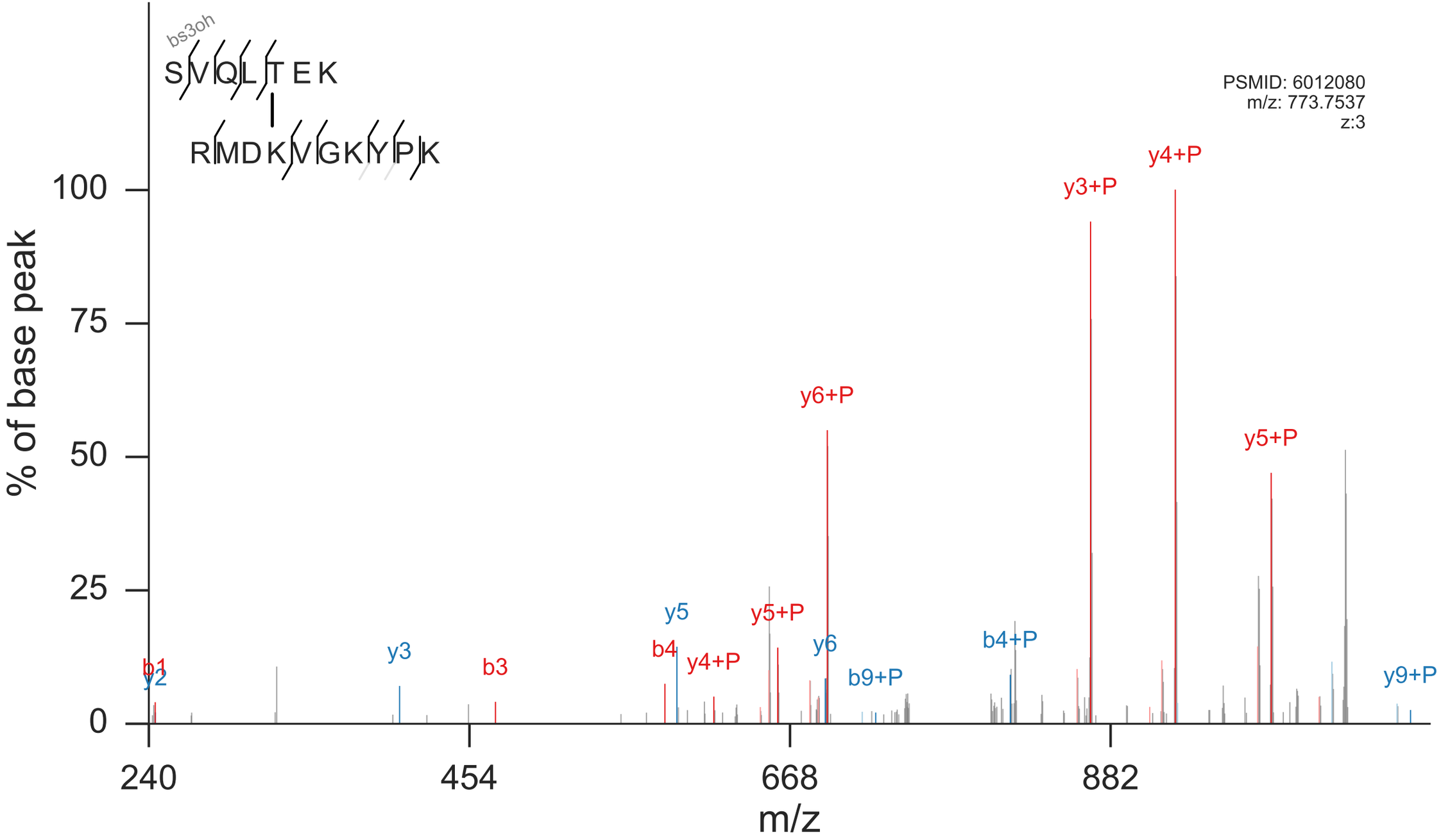
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R M D K V G K Y P K
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z:3
% of base peak
100
75
50
25
0
240
454
668
882
m/z
y4+P
y3+P
y6+P
y5+P
y5
y5+P
b4
y4+P
y6
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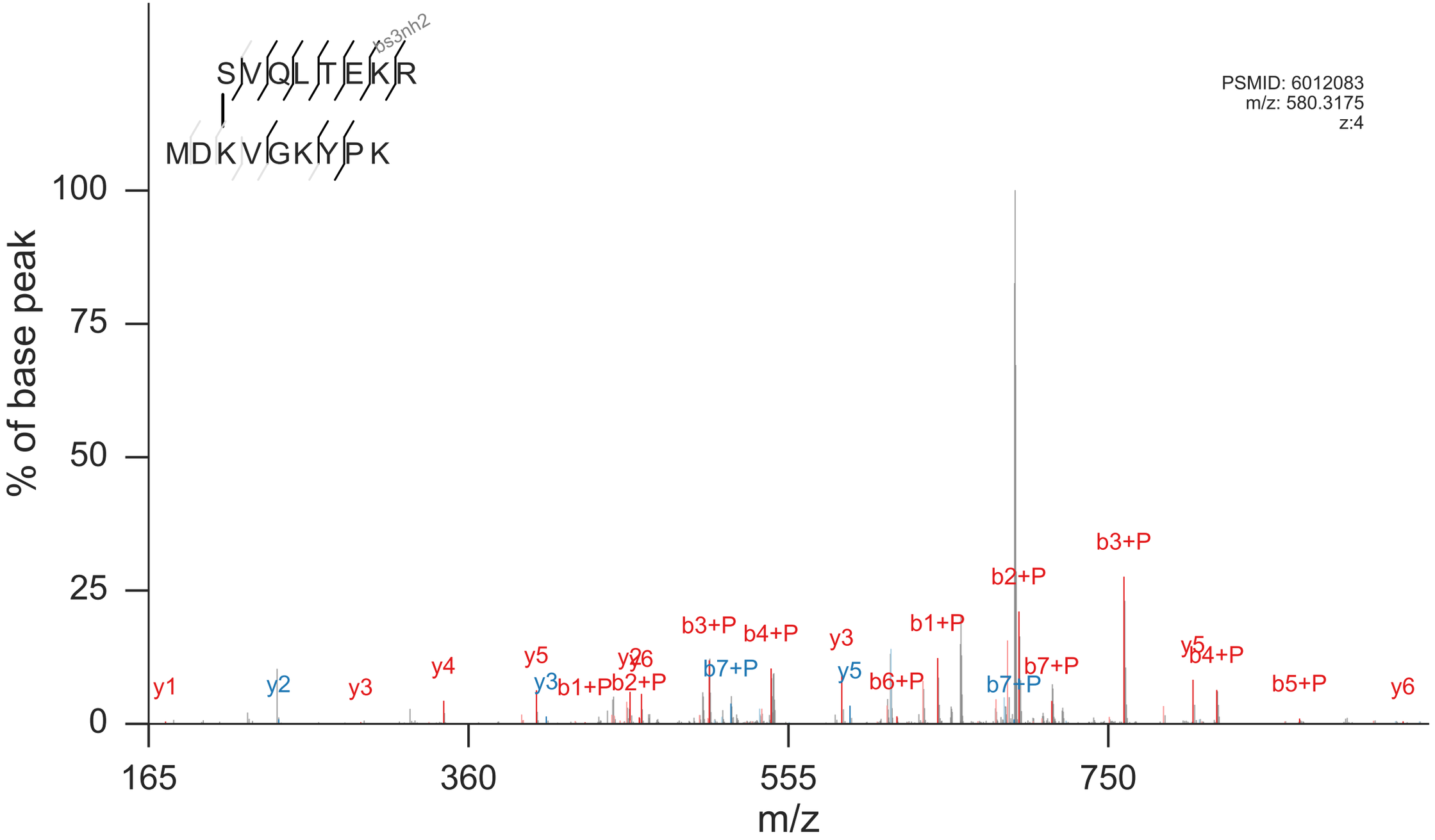
y3
b1
y2
b3
b9+P
y9+P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25
0
165
360
555
750
m/z
y1
y2
y3
y4
y5
y3
b1+P
y2
b2+P
b3+P
b4+P
b7+P
y3
y5
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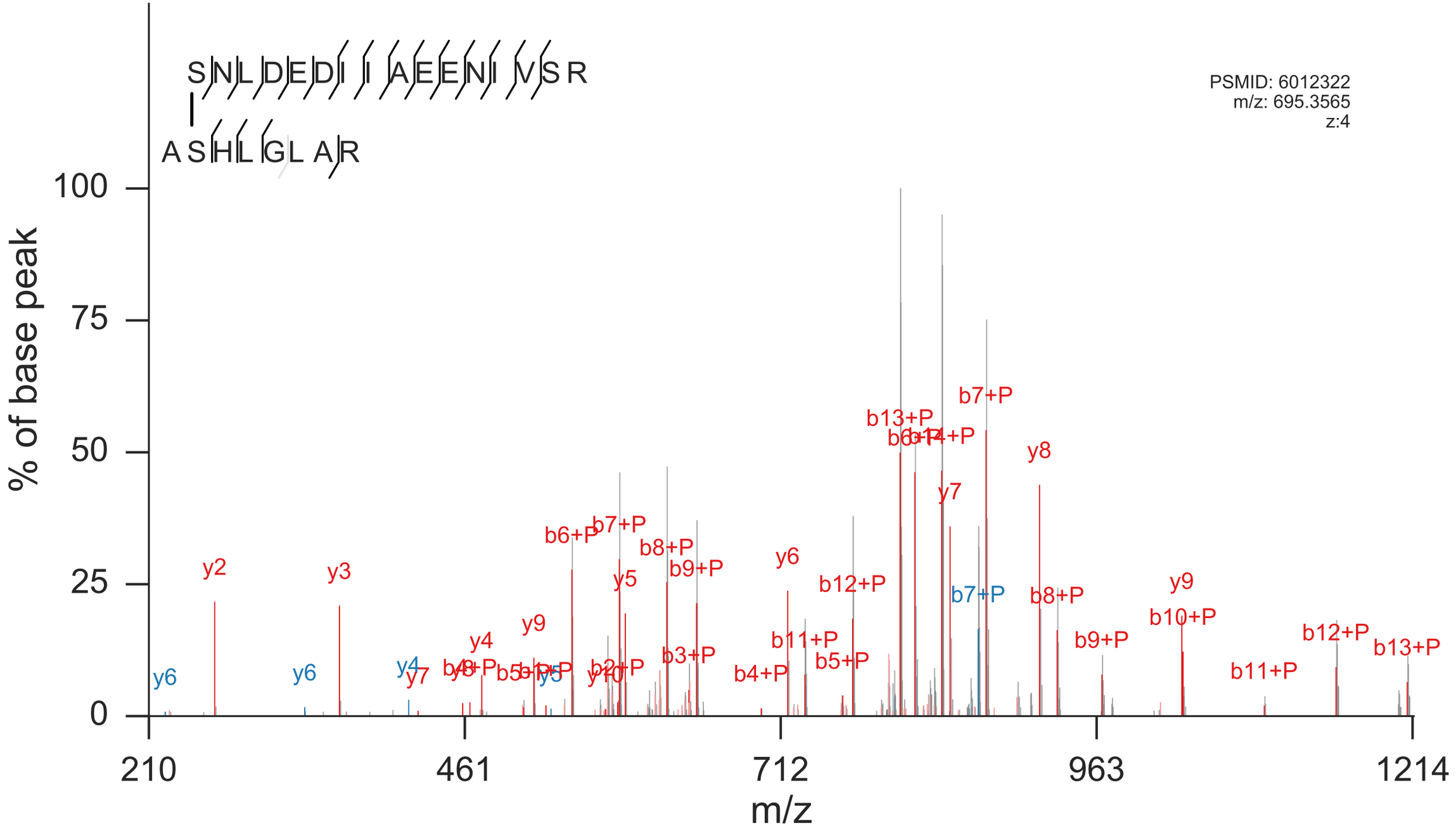
b7+P
b5+P
y6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% of base peak
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25
0
210
461
712
963
1214
m/z
y2
y3
y6
y6
y4
y7
y4
y9
y5
y6
b6+P
b7+P
b8+P
b9+P
b3+P
b4+P
b12+P
b11+P
b5+P
b13+P
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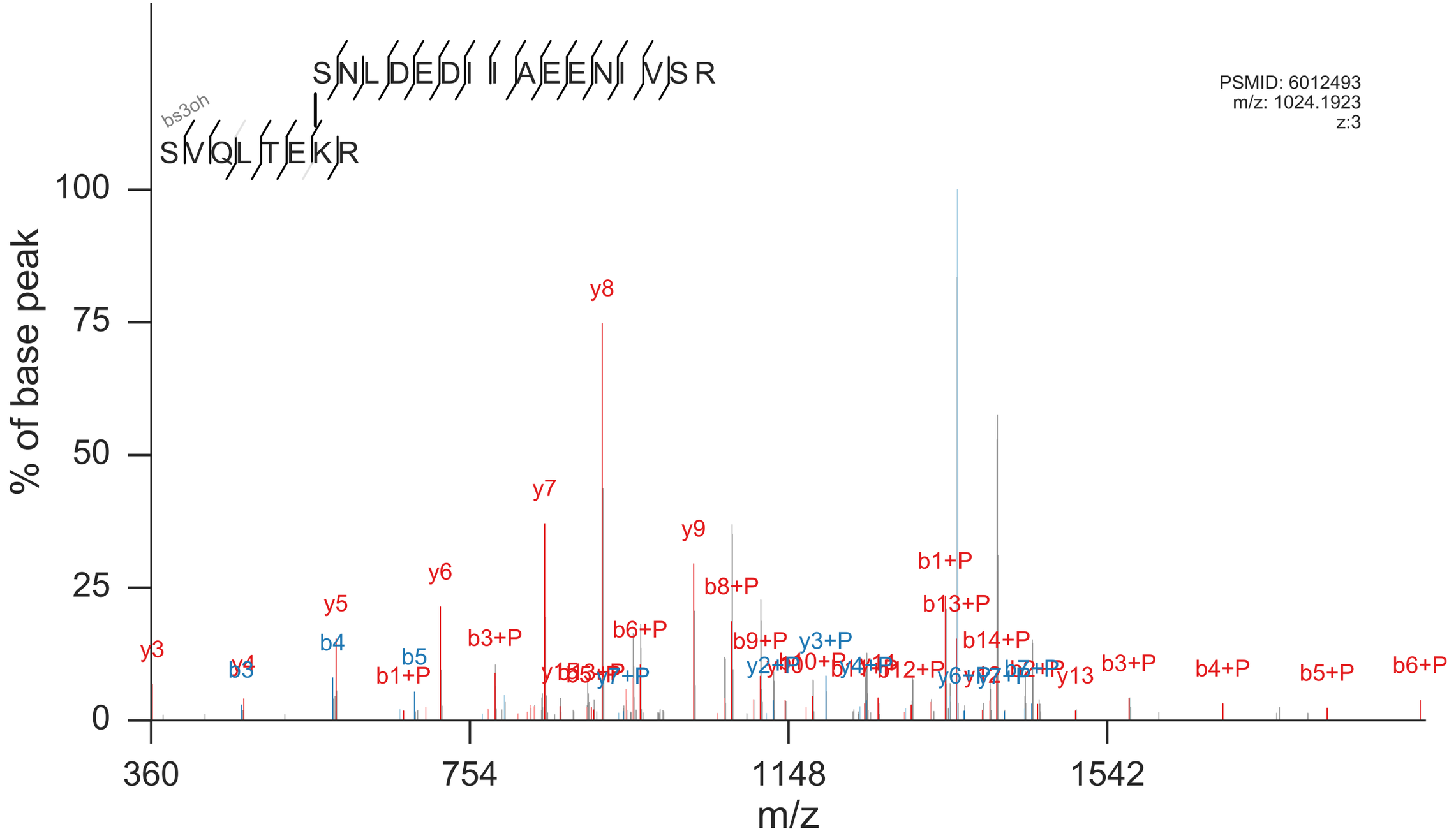
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25
0
360
754
1148
1542
m/z
y8
y7
y9
y6
y5
b4
y3
b5
b3+P
b6+P
b1+P
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b5+P
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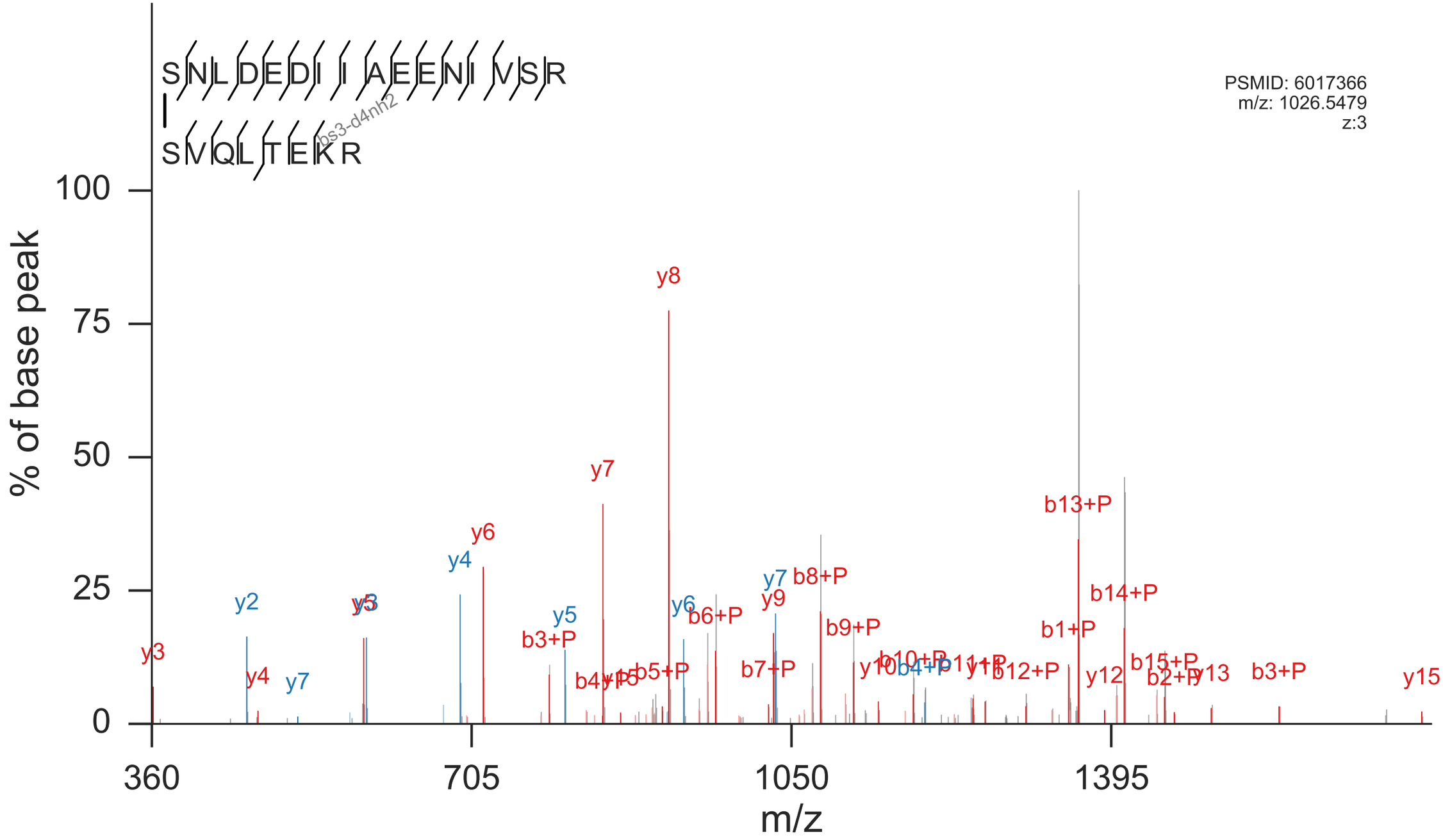
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50
25
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m/z
y8
y7
y6
y4
y2
y3
y5
b3+P
y7 b8+P
y9
b6+P
y6
b9+P
b13+P
b14+P
b1+P
y3
y4
y7
b4+P
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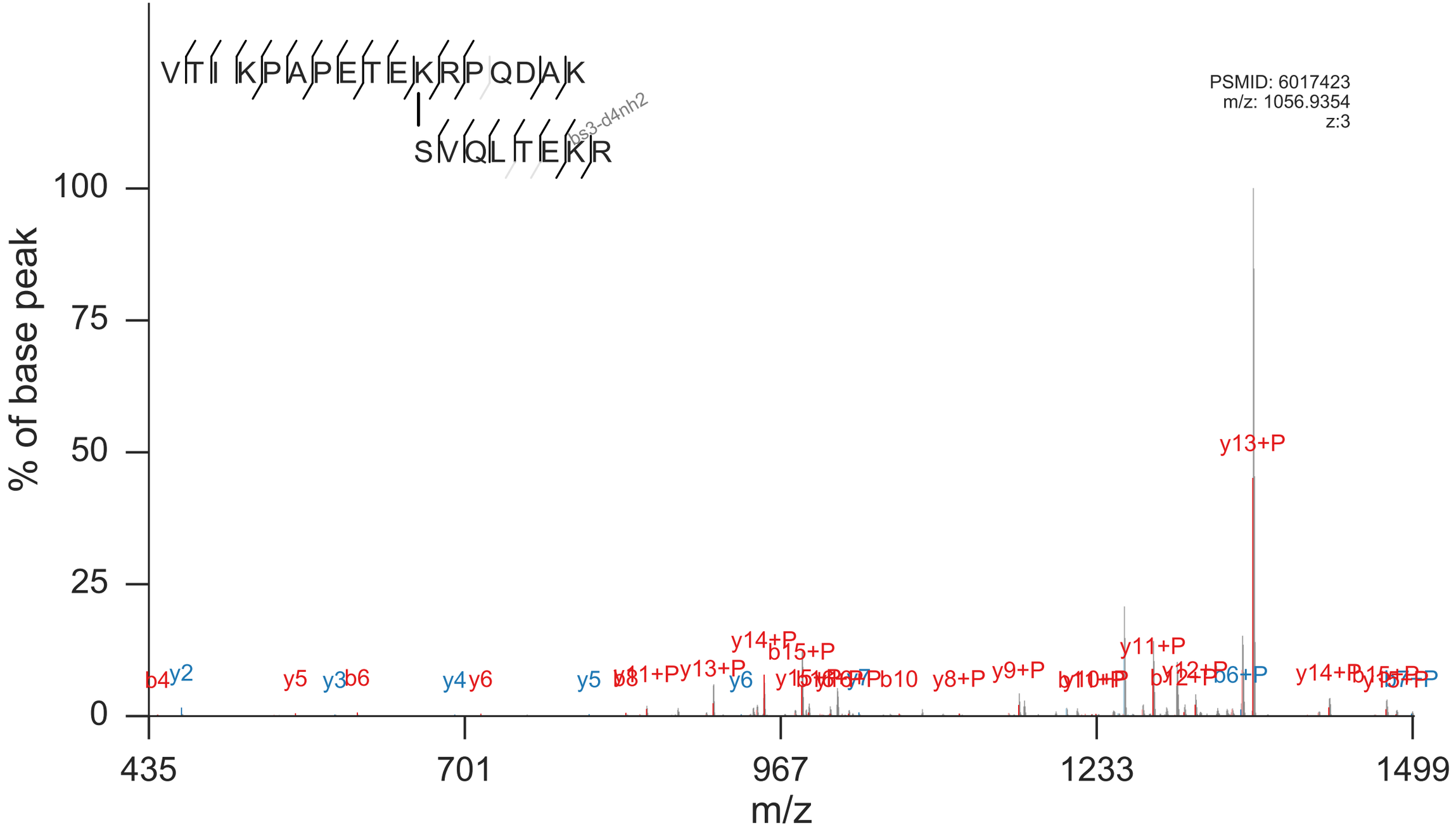
b3+P
y15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z:3
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75
50
25
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435
701
967
1233
1499
m/z
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y14+P
b15+P
y11+P
y13+P
y9+P
y8+P
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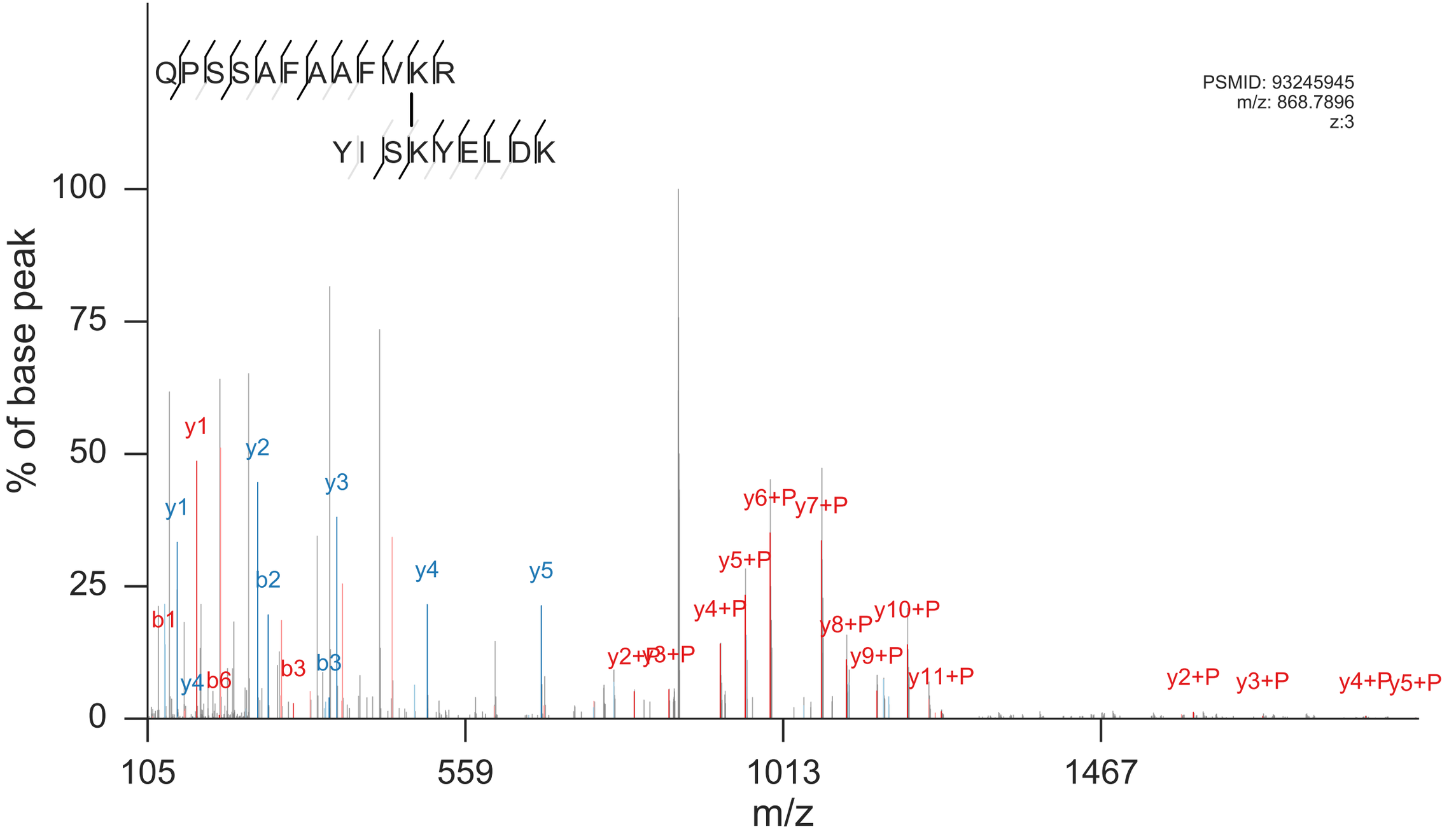
y3
b6
y4
y6
y5
y6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z:3
% of base peak
100
75
50
25
0
105
559
1013
1467
m/z
y1
y2
y3
y1
b2
y4
y5
b1
y4
b6
b3
b3
y6+P
y7+P
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y4+P
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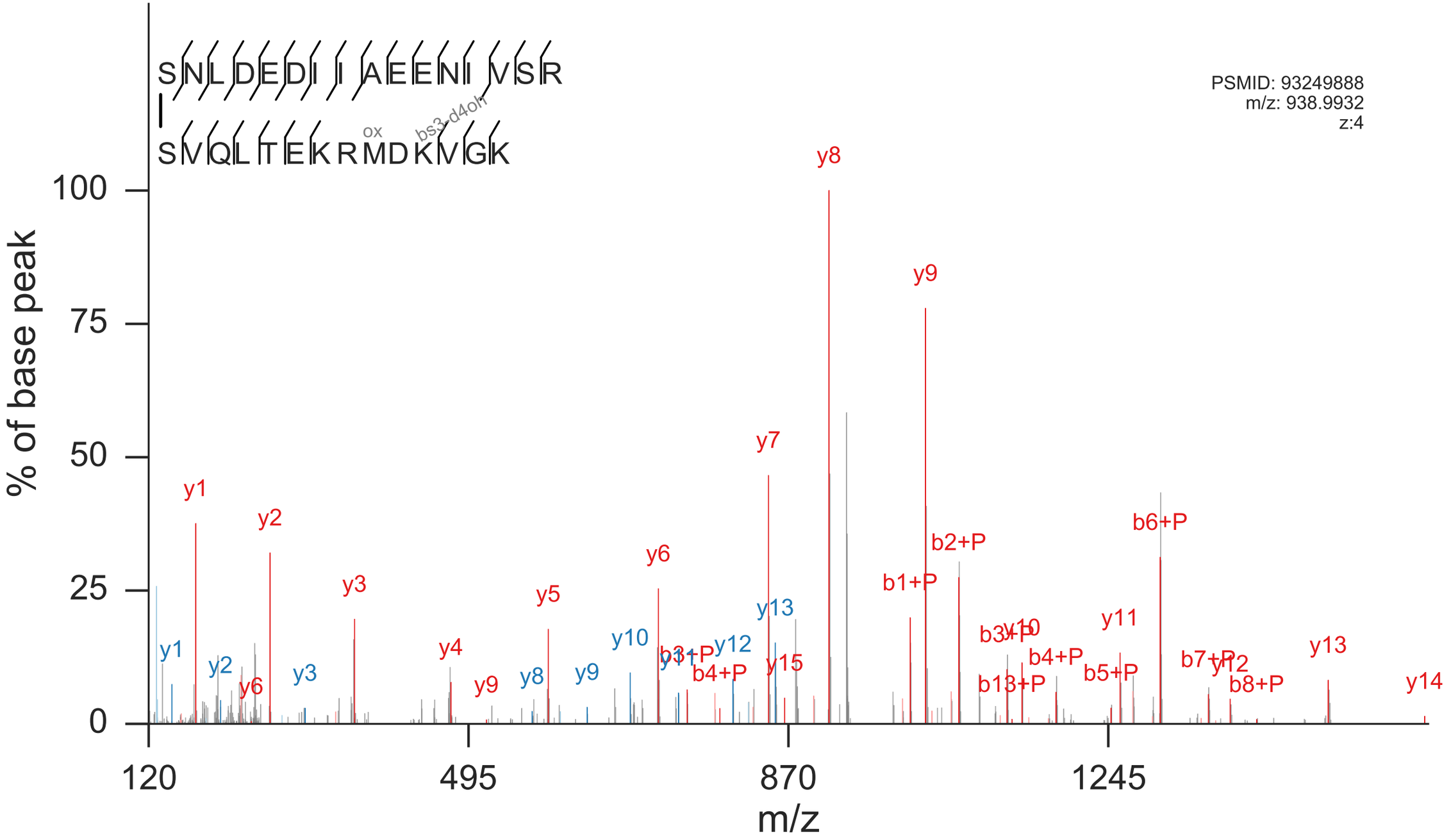
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z:4
% of base peak
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75
50
25
0
120
495
870
1245
m/z
y8
y9
y7
y1
y2
y3
y6
y5
y13
y10
y12
y11
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b2+P
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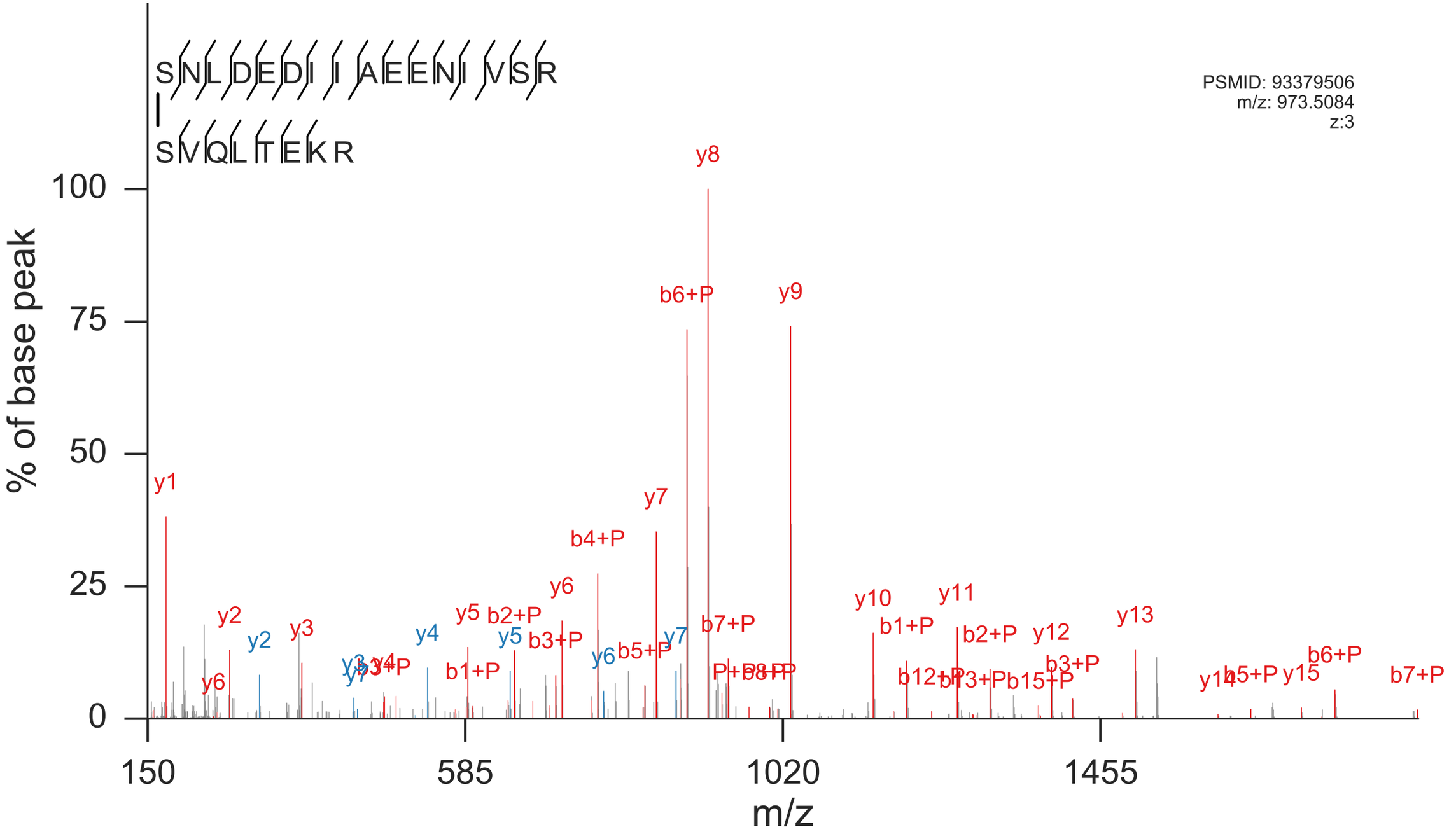
y14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100
75
50
25
0
150
585
1020
1455
m/z
y8
b6+P
y9
y1
y7
b4+P
y6
y10
y11
y2
y5
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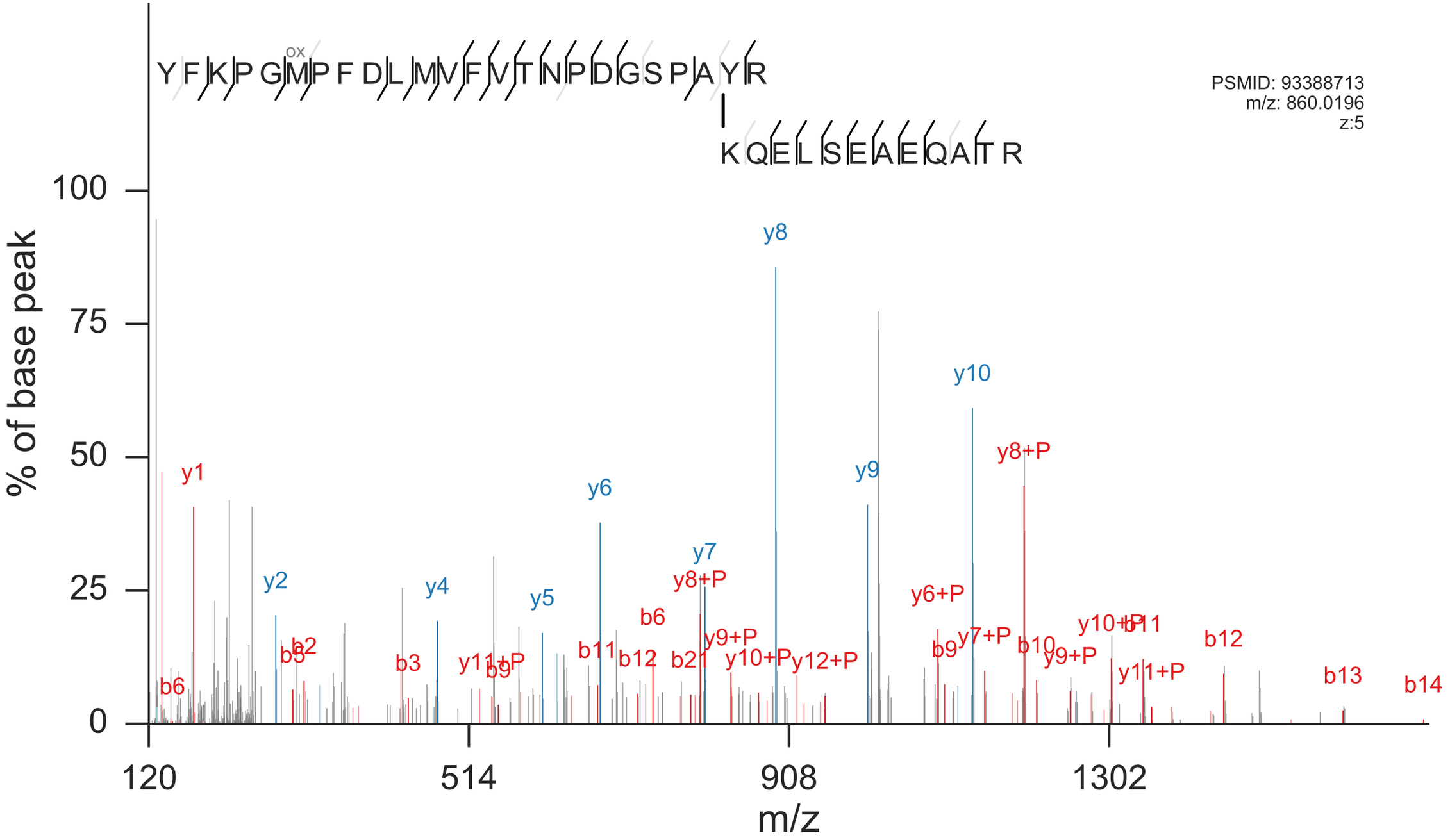
b5+P
y12
b6+P
y15
b7+P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K Q E L S E A E Q A T R
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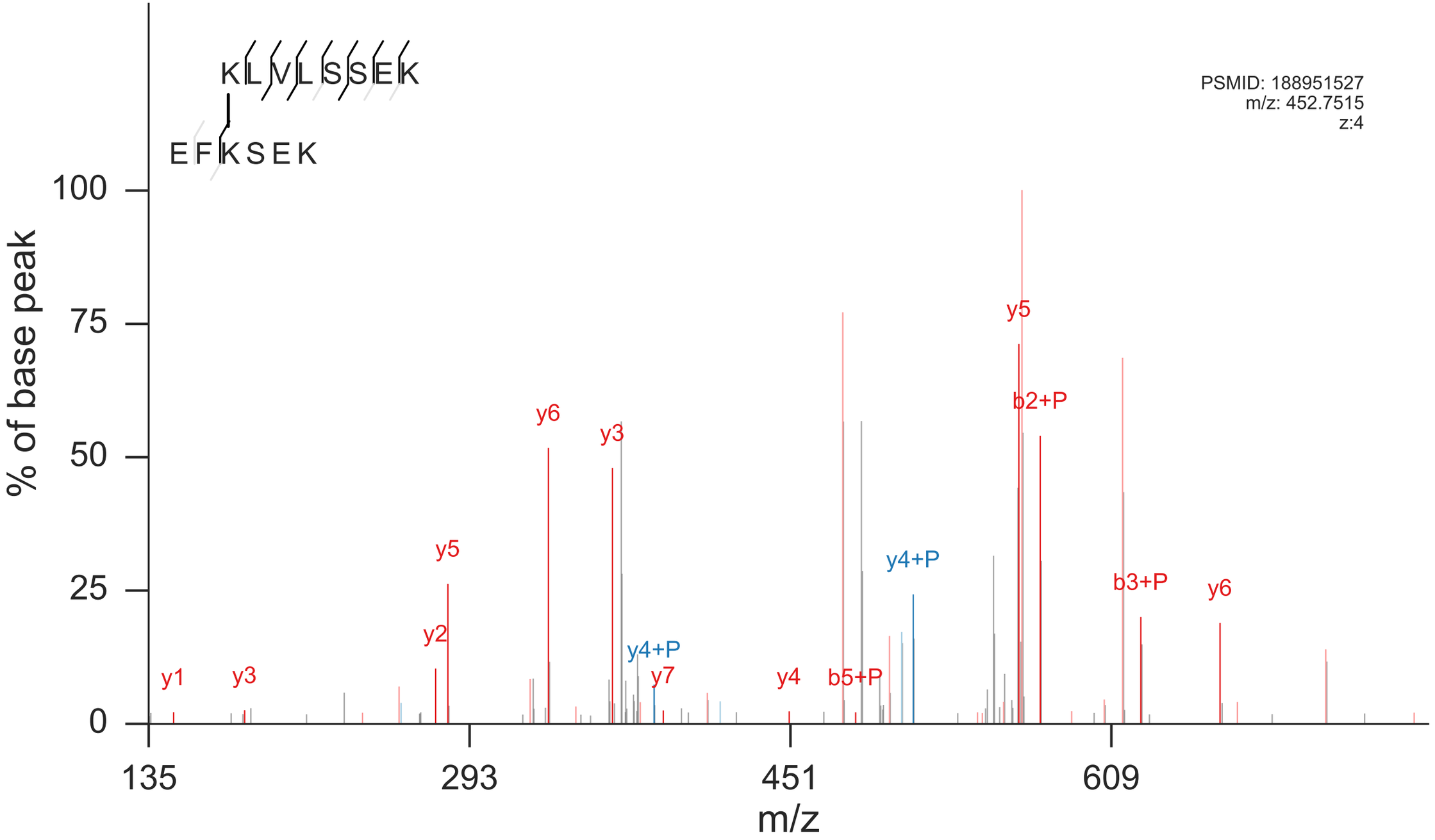
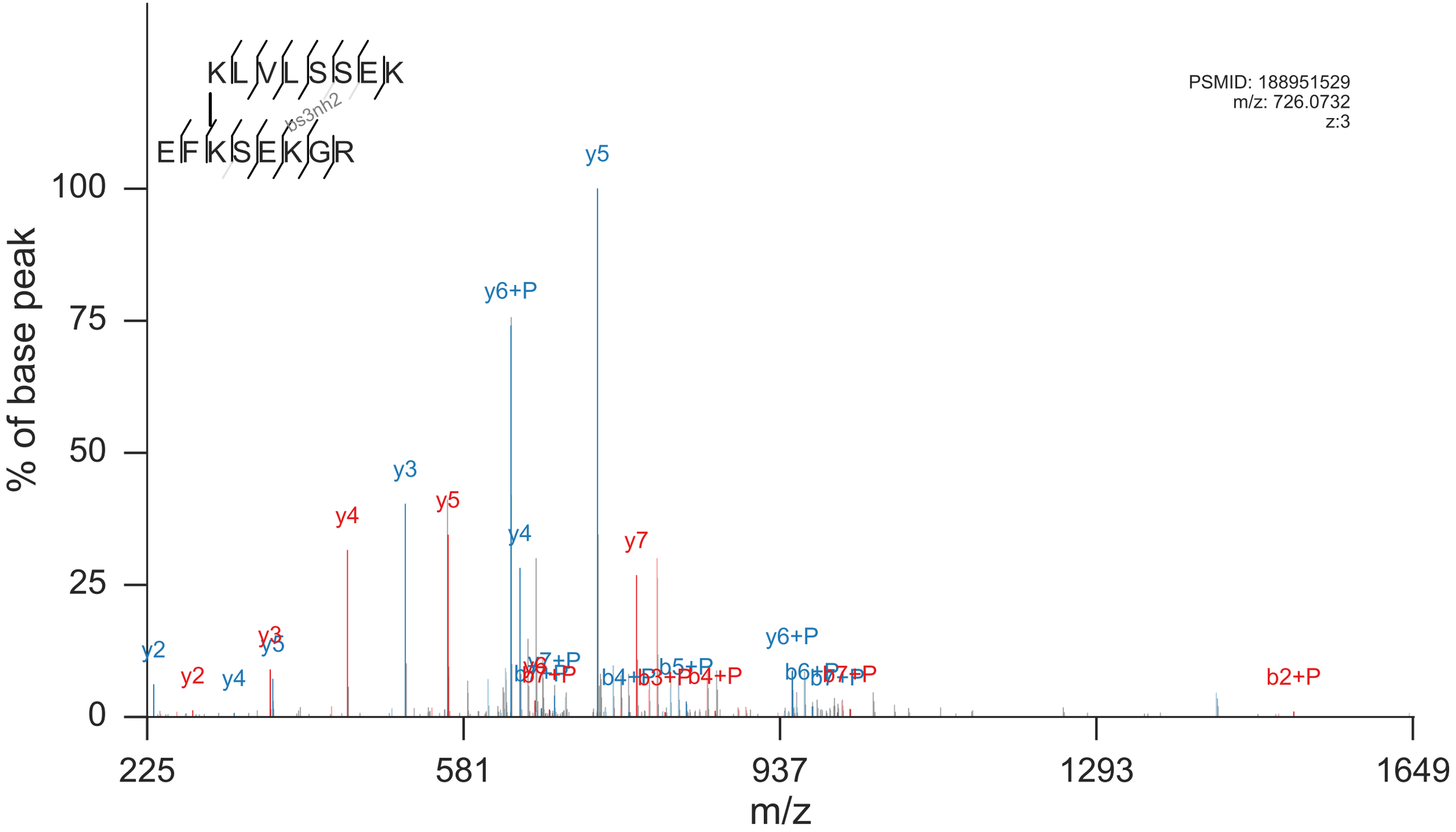
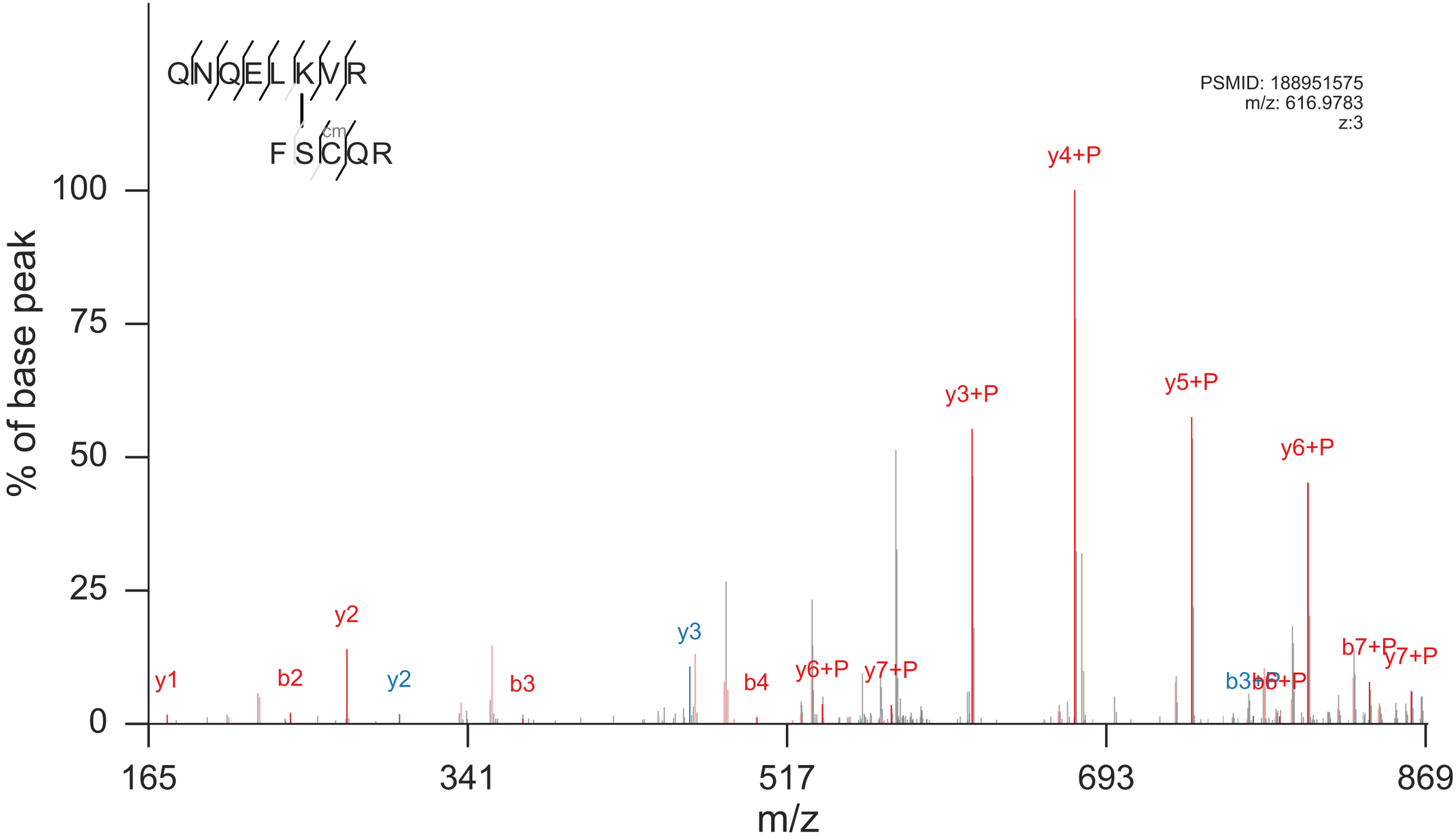
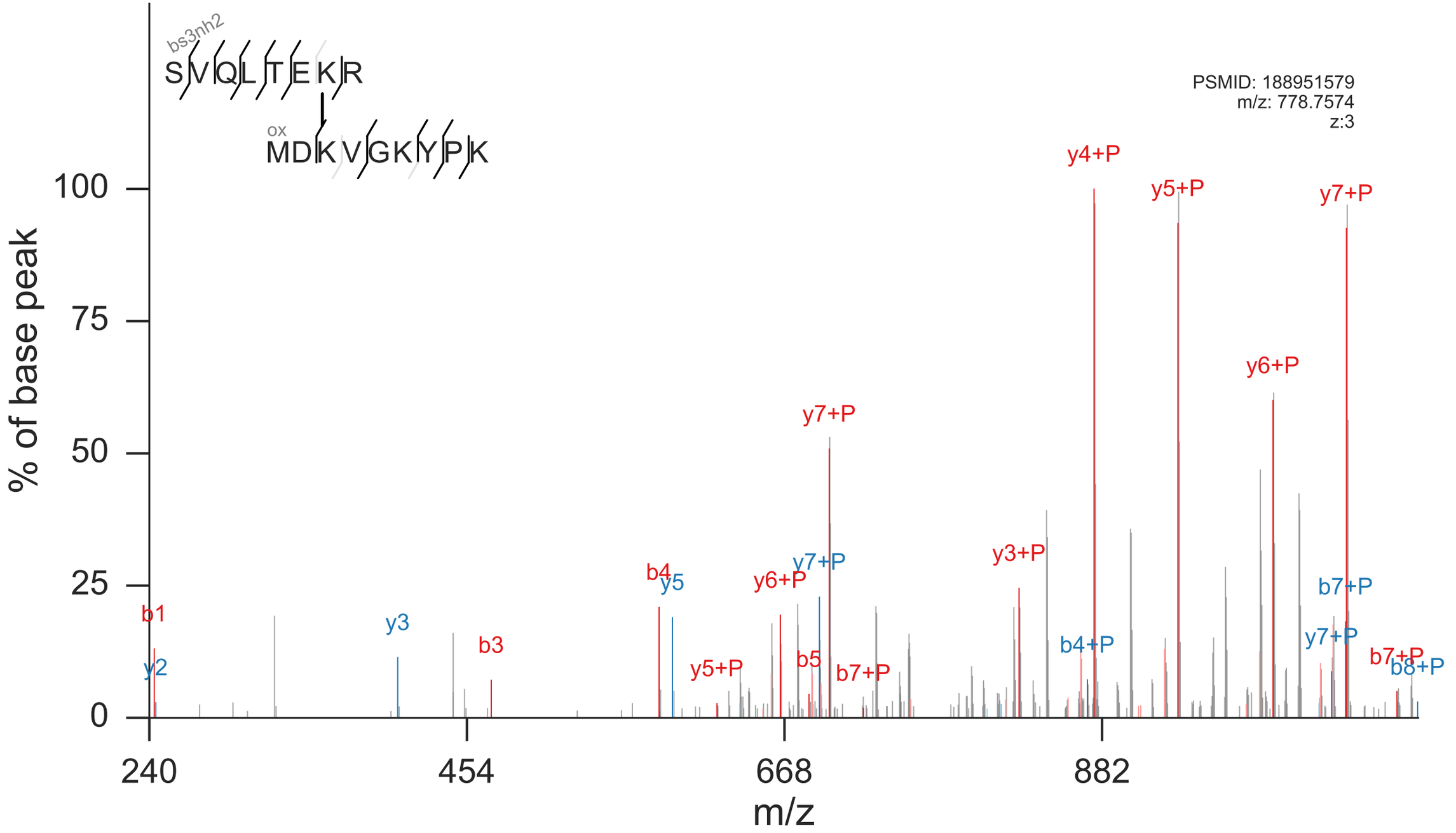
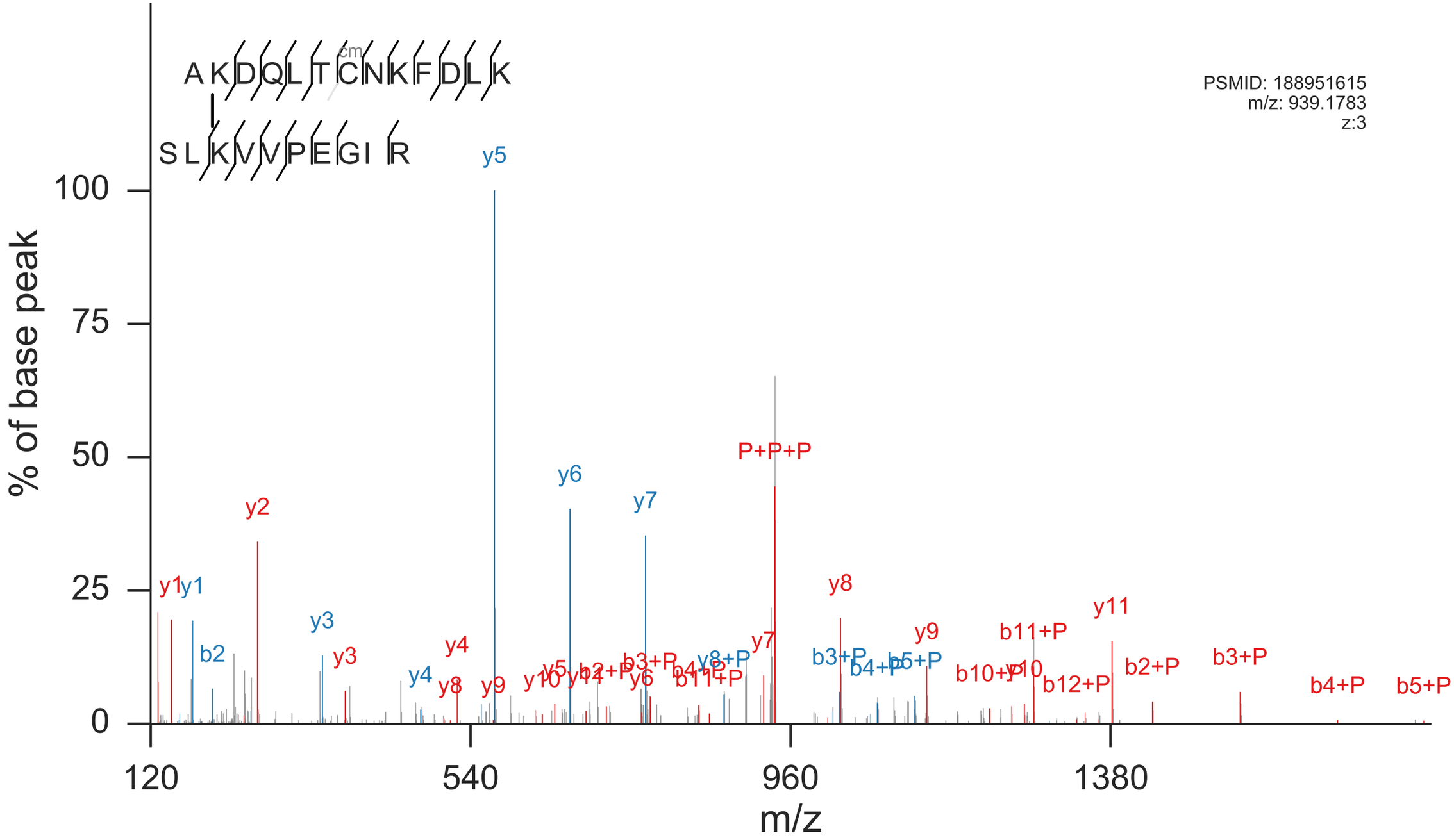
z:5
% of base peak
100
75
50
25
0
120
514
908
1302
m/z
y8
y10
y8+P
y9
y1
y6
y7
y2
y4
y5
y6+P
y8+P
b6
y9+P
b5
b2
b11
b12
b21
y10+P
y12+P
b9
y7+P
b10
y10+P
y11+P
b12
b3
y11+P
b9
y9+P
y11+P
b13
b14
b6

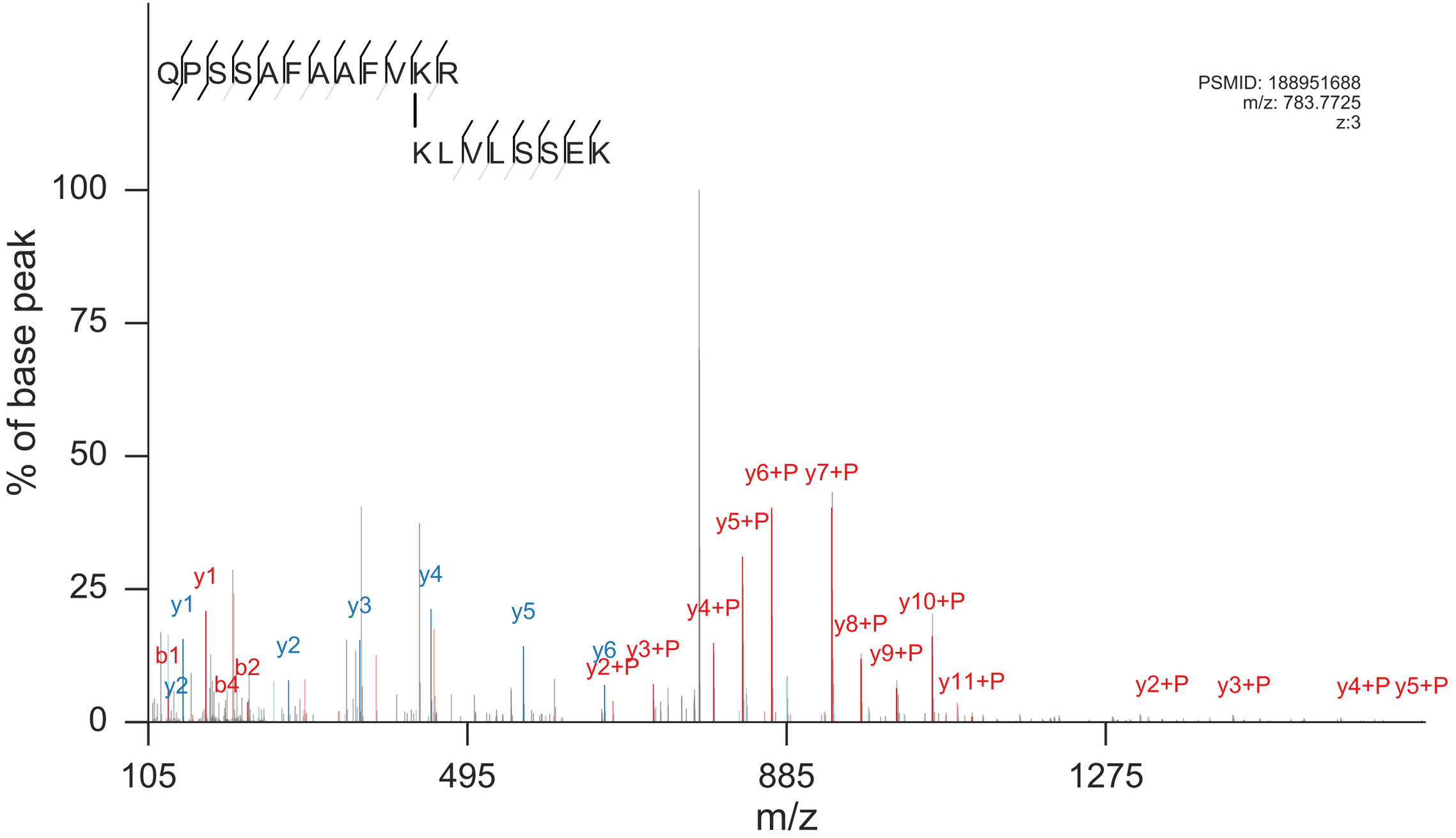

K L V L S S E K
E F K S E K
PSMID: 188951527
m/z: 452.7515
z:4
% of base peak
100
75
50
25
0
135
293
451
609
m/z
y1
y3
y5
y2
y6
y3
y4+P
y7
y4
b5+P
y5
b2+P
y4+P
b3+P
y6

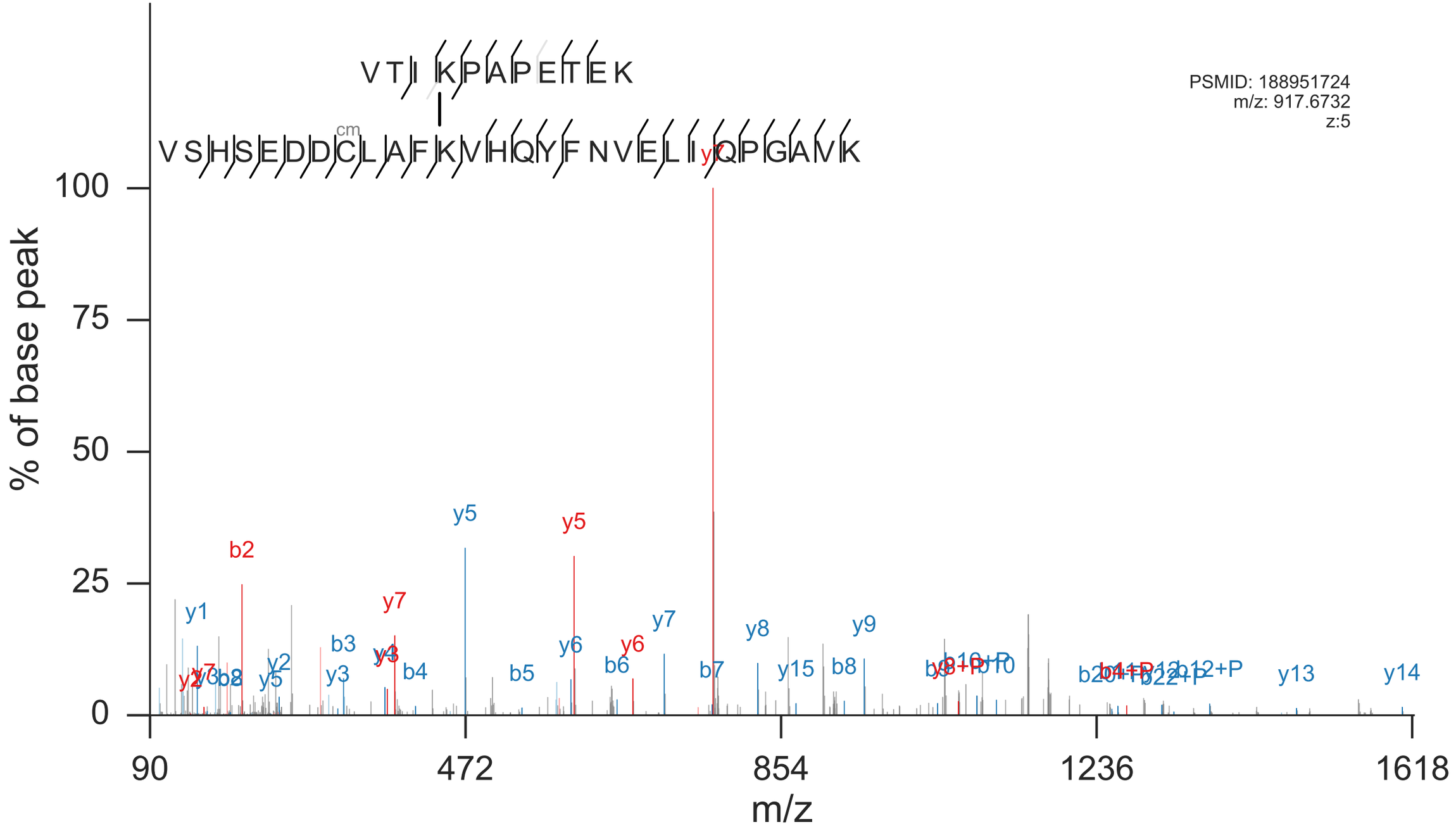

KLVLSSEK
EFKSEKGR
bs3nh2
PSMID: 188951529
m/z: 726.0732
z:3
% of base peak
100
75
50
25
0
225
581
937
1293
1649
m/z
y5
y6+P
y3
y5
y4
y4
y7
y6+P
y2
y2
y4
y3
y3
y7+P
b5+P
b4+P
b2+P

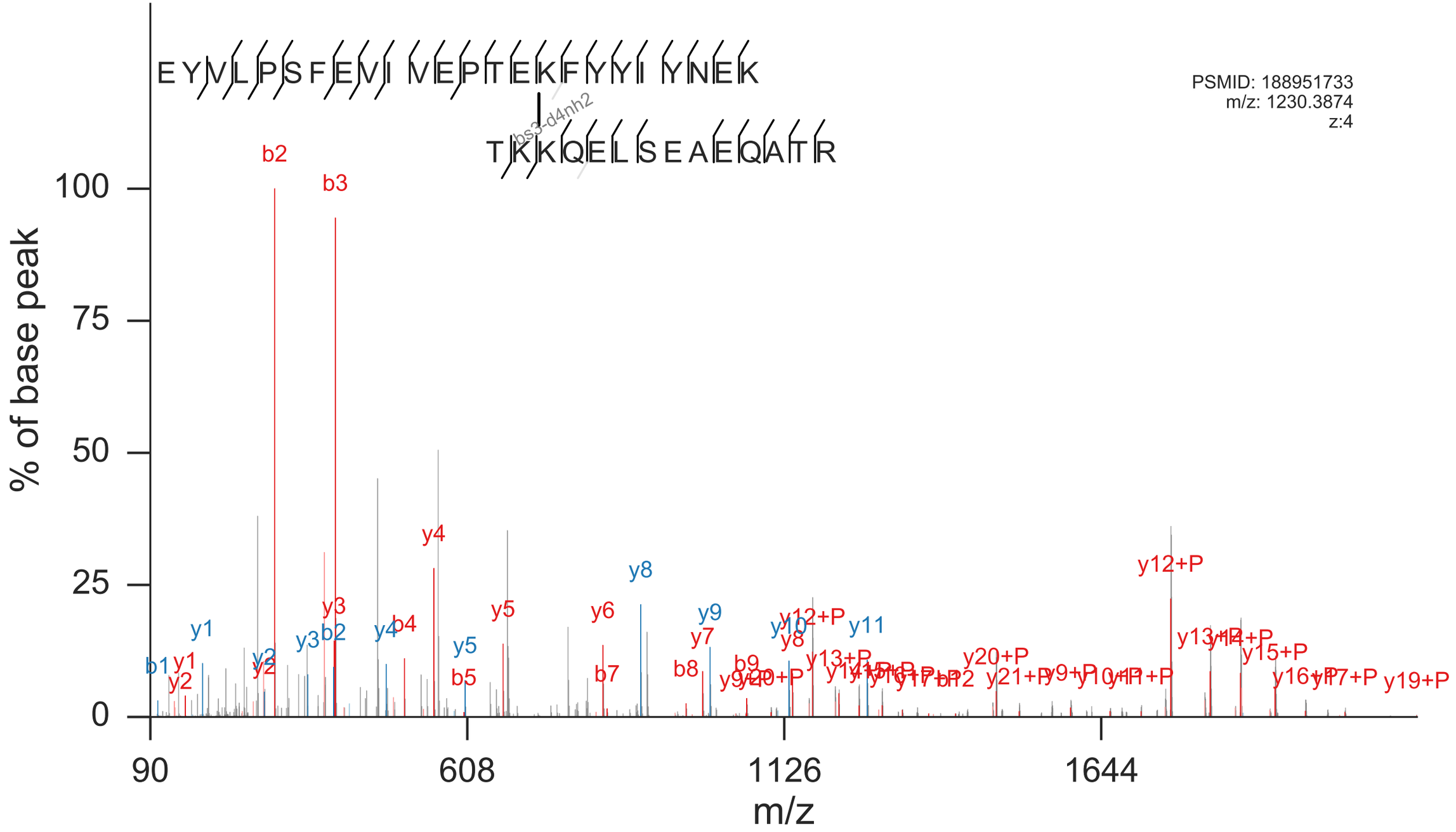

QNQELKVR
FSCmCQR
PSMID: 188951575
m/z: 616.9783
z:3
% of base peak
100
75
50
25
0
165
341
517
693
869
m/z
y4+P
y3+P
y5+P
y6+P
b7+P
y7+P
y2
y3
y1
b2
y2
b3
b4
y6+P
y7+P
b3
b6+P

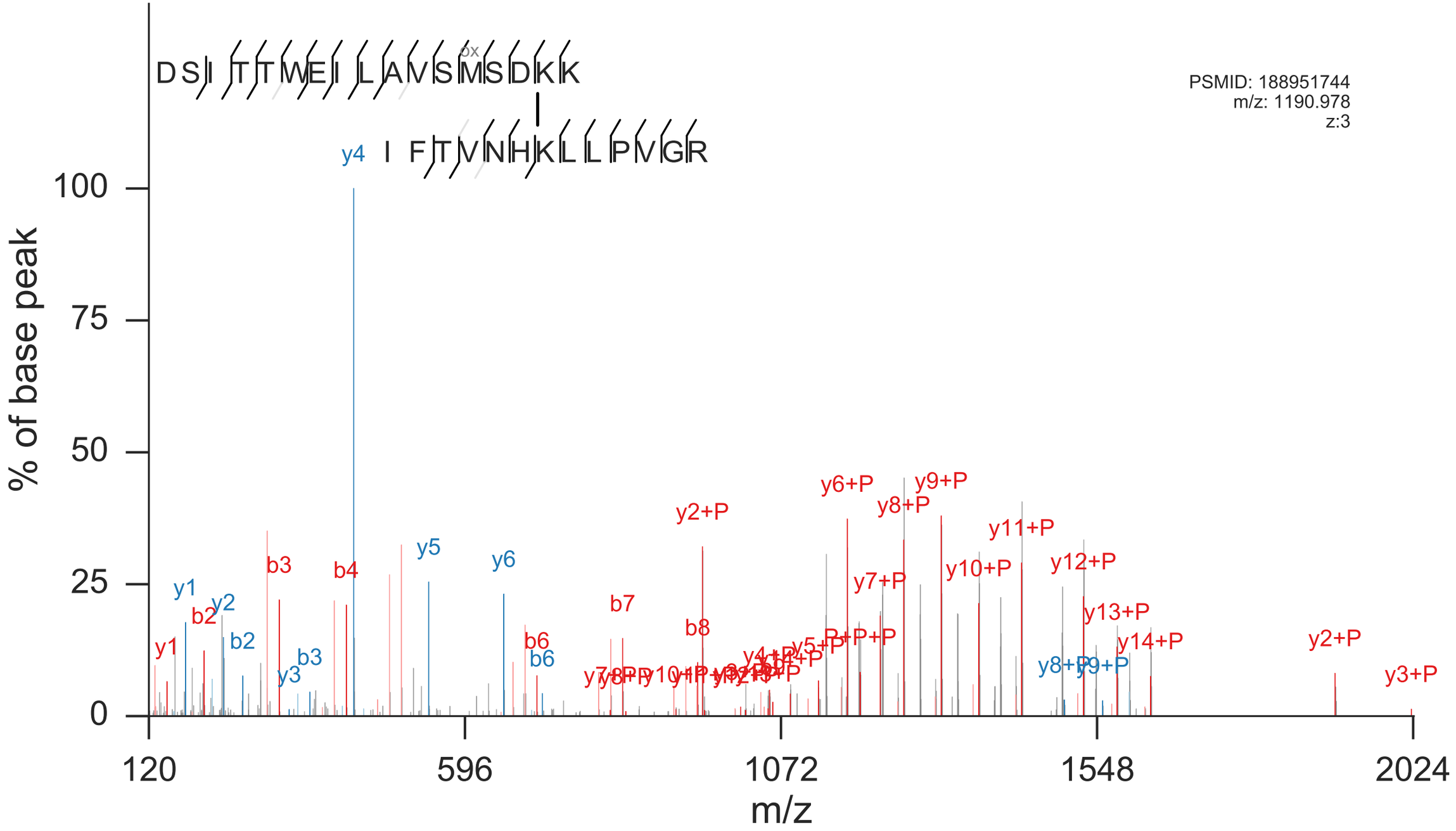

bs3nh2
SVQLTEKR
ox
MDKVGKYPK
PSMID: 188951579
m/z: 778.7574
z:3
% of base peak
100
75
50
25
0
240
454
668
882
m/z
y4+P
y5+P
y7+P
y6+P
y7+P
y3+P
b4
y5
y6+P
y7+P
b7+P
b1
y3
b3
y2
y5+P
b5
b7+P
b4+P
y7+P
b7+P
b8+P

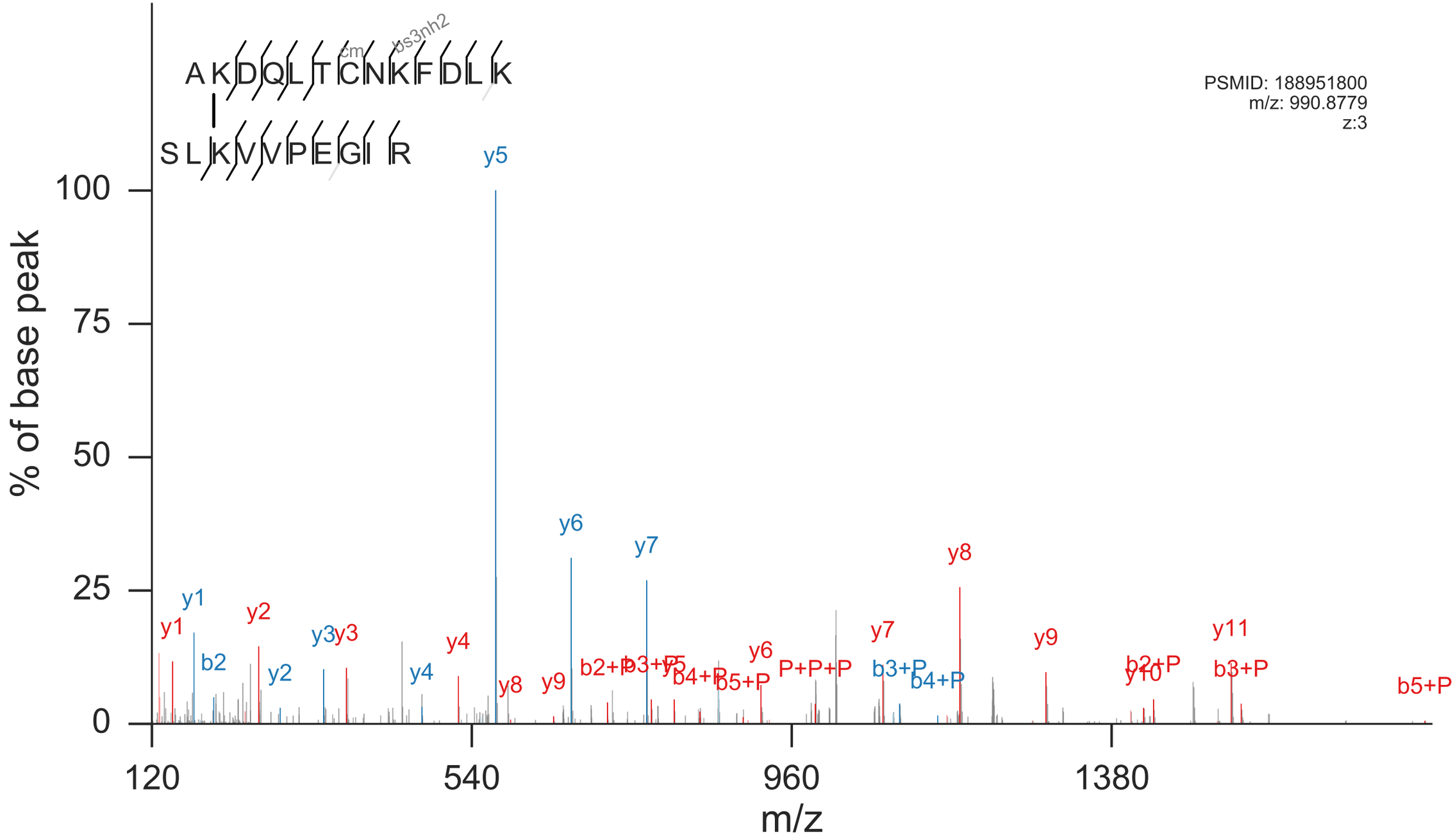

AKDQLTCNKFDLK
SLKVVPEGIR
cm
PSMID: 188951615
m/z: 939.1783
z:3
% of base peak
100
75
50
25
0
120
540
960
1380
m/z
y5
y6
y7
P+P+P
y2
y1
y1
b2
y3
y3
y4
y4
y8
y9
y5
y10
y14+P
b2+P
b3+P
y6
b4+P
b11+P
y8+P
y7
y8
b3+P
b4+P
b5+P
y9
b11+P
b10+P
y10
y11
b12+P
b2+P
b3+P
b4+P
b5+P

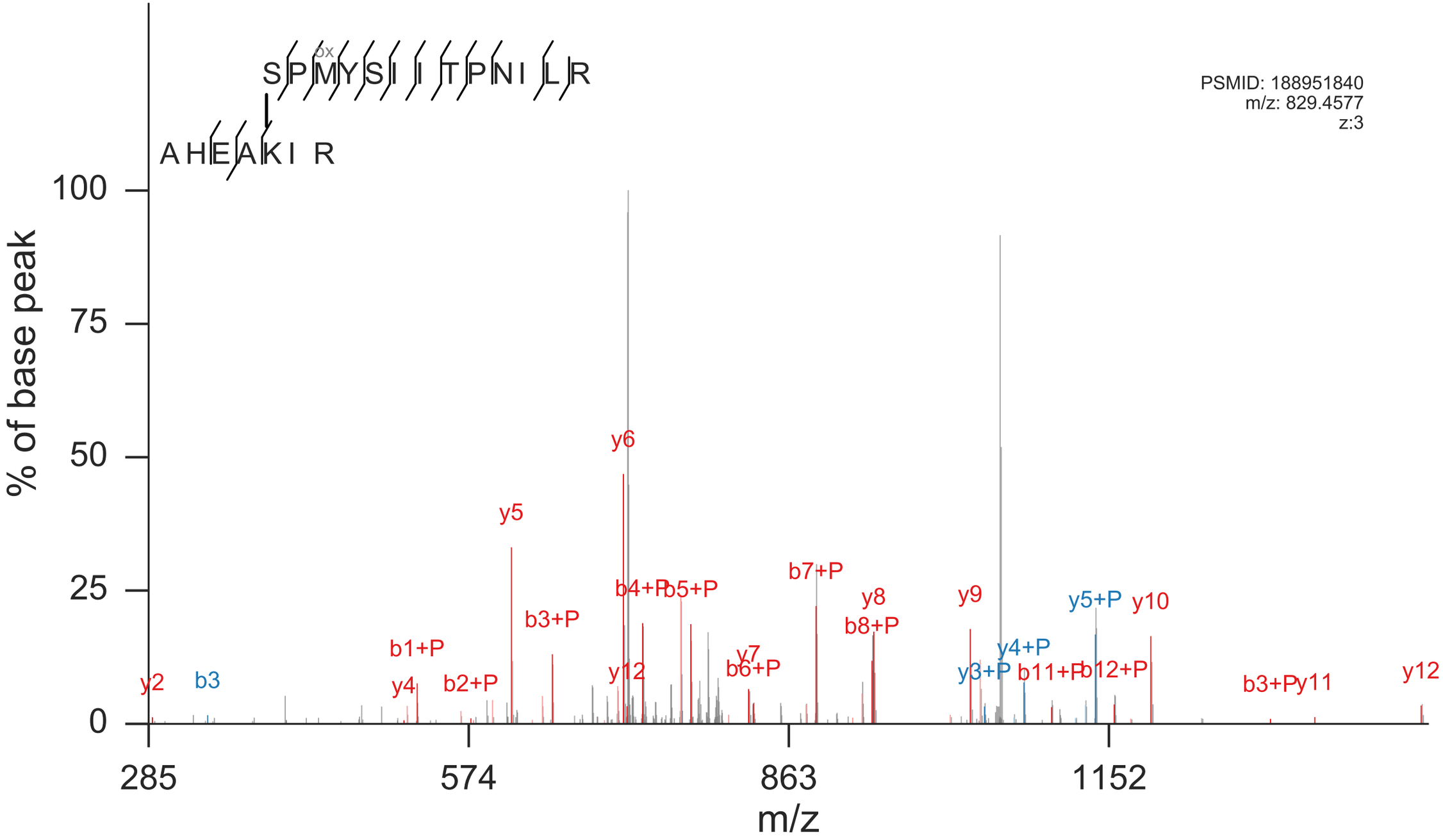

QPSSAFAAFVKR
KLVLSSEK
PSMID: 188951688
m/z: 783.7725
z:3
% of base peak
100
75
50
25
0
105
495
885
1275
m/z
y1
y1
y4
y3
y5
y2
b1
b2
y2
b4
y6
y3+P
y2+P
y6+P
y7+P
y5+P
y4+P
y8+P
y10+P
y9+P
y11+P
y2+P
y3+P
y4+P
y5+P

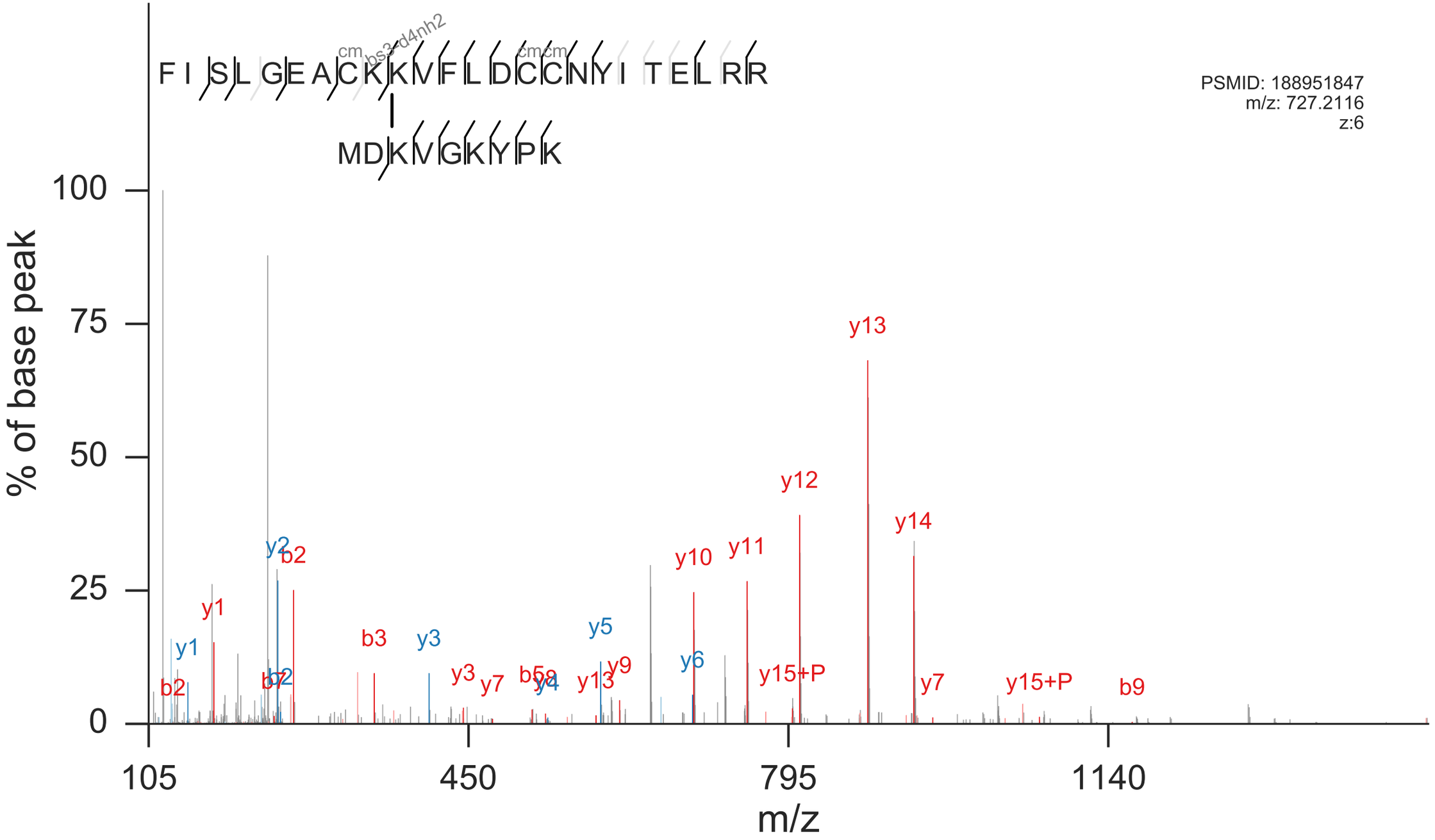

VTIIKPAPETEK
VSHSEDDCmCLAFKVHQYFNVELIIQPGAVK
PSMID: 188951724
m/z: 917.6732
z:5
% of base peak
100
75
50
25
0
90
472
854
1236
1618
m/z
b2
y5
y5
y1
y7
b3
y3
y2
y3
b4
b5
y6
y6
b6
y7
b7
y8
y9
y15
b8
y13
y14

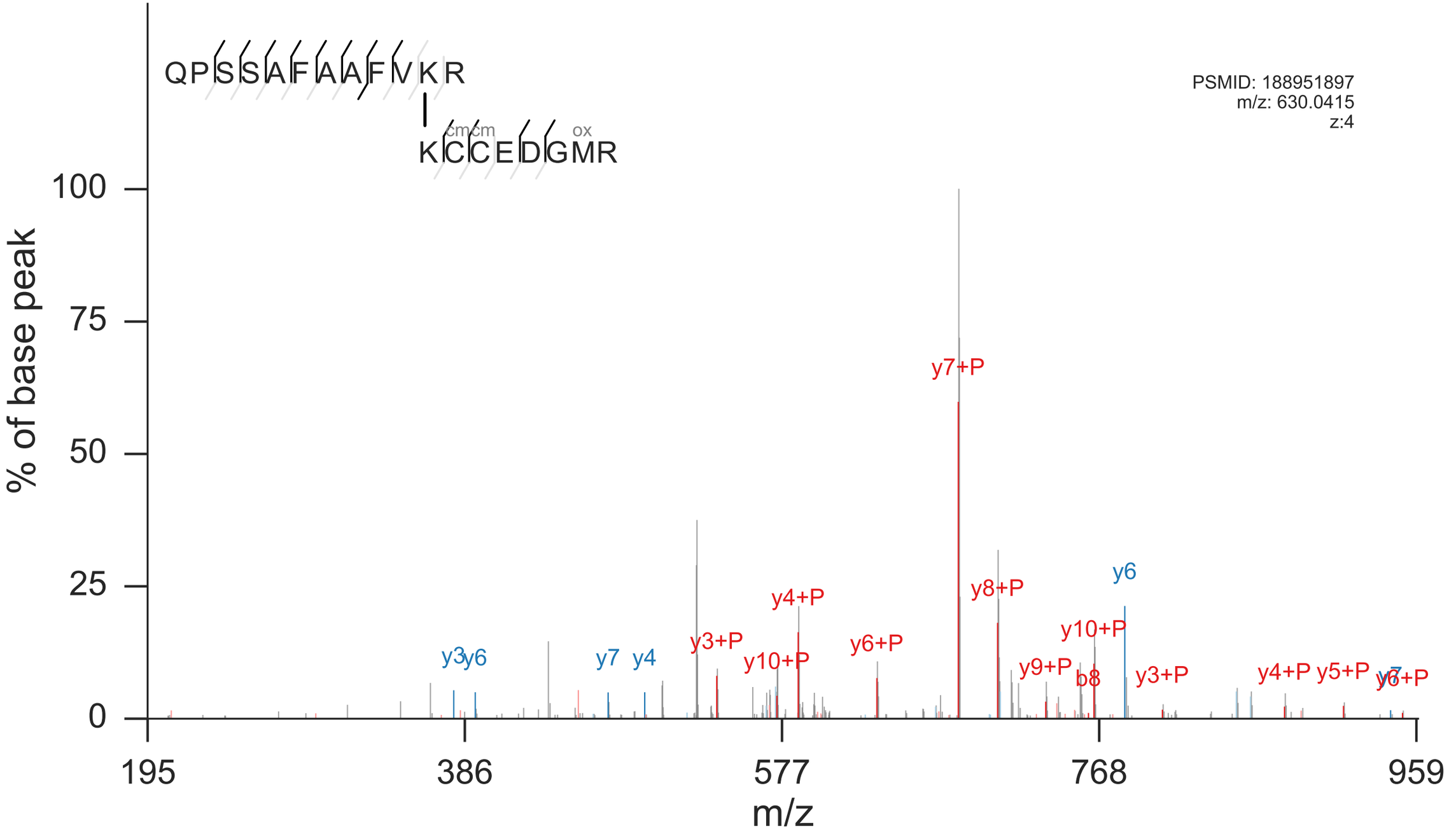

EYVLPSFEVIVEPTEKFYYIYNEK
bs3-d4nh2
TKKQELSEAEQATR
PSMID: 188951733
m/z: 1230.3874
z:4
% of base peak
100
75
50
25
0
90
608
1126
1644
m/z
b2
b3
y4
y8
y12+P
y3
y1
y5
y6
y9
y10+P
y11
y7
y8
b1
y1
y2
y3
b2
y4
b4
y5
b5
b7
b8
y13+P
y20+P
y15+P
y16+P
y17+P
y19+P

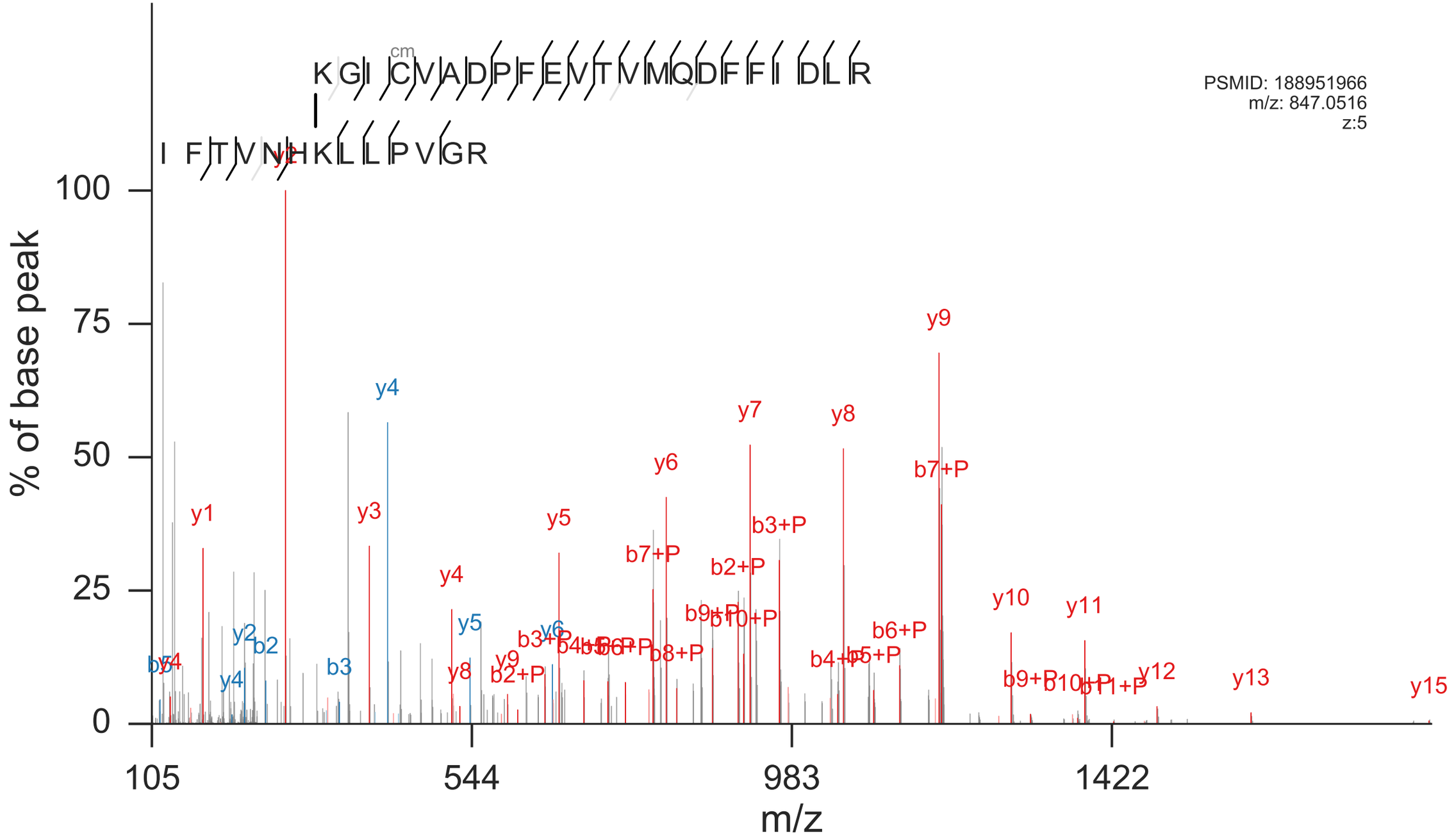

DSITTWEILAVSMSDKK
ox
y4 IFTVNHKLLPVGR
PSMID: 188951744
m/z: 1190.978
z:3
% of base peak
100
75
50
25
0
120
596
1072
1548
2024
m/z
y1
b2
y2
b2
b3
y3
b3
b4
y5
y6
b6
b6
b7
b8
y2+P
y6+P
y9+P
y8+P
y11+P
y7+P
y10+P
y12+P
y13+P
y14+P
y2+P
y3+P
y8+P
y9+P

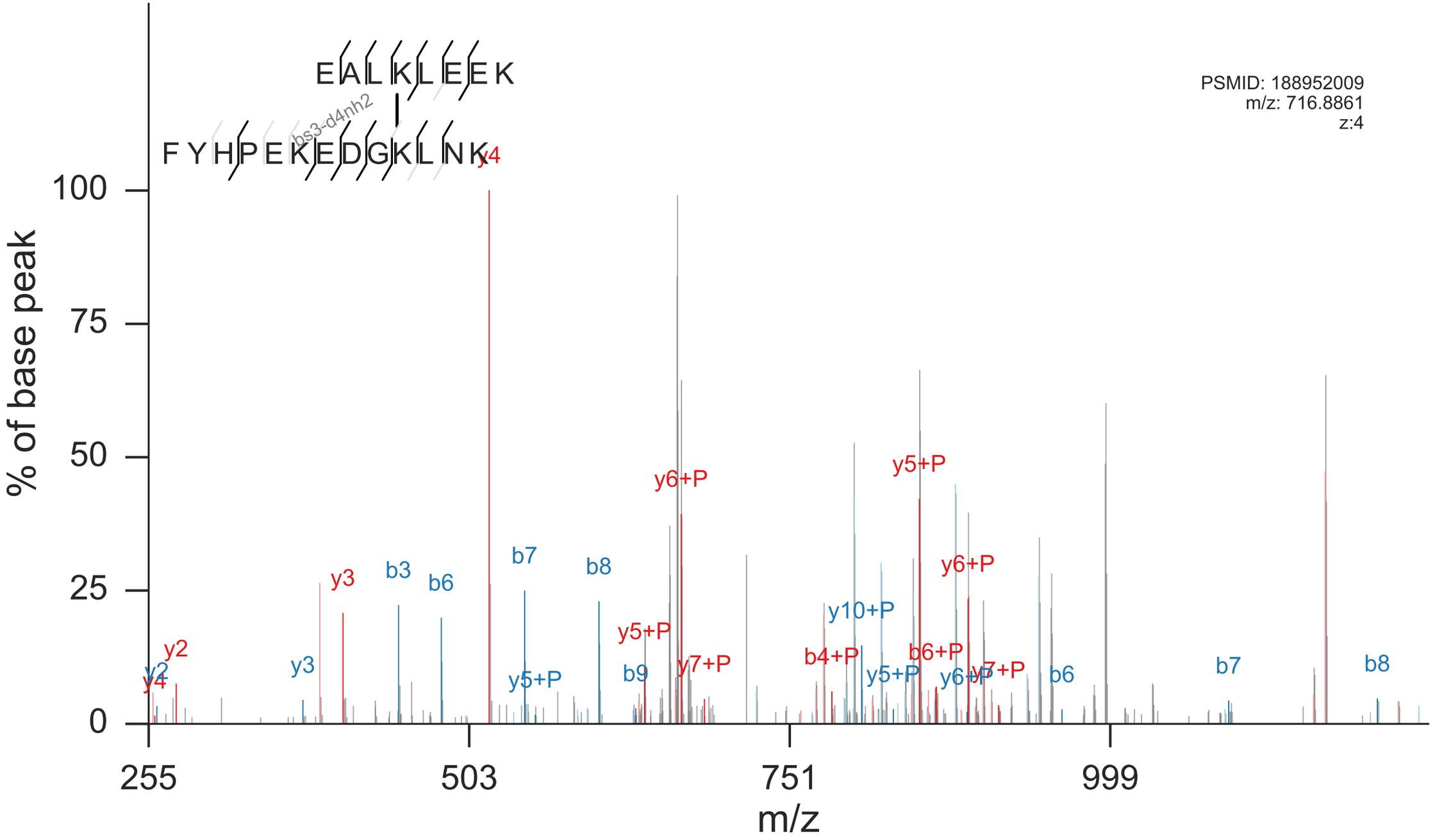

AKDQLTCNKFDLK
cm
bs3nh2
SLKVVPEGIR
PSMID: 188951800
m/z: 990.8779
z:3
% of base peak
100
75
50
25
0
120
540
960
1380
m/z
y5
y6
y7
y8
y1
y2
y3
y4
y9
b2
y10
y11
b5+P
b3+P
b4+P
P+P+P
b2+P
b3+P5
b4+P
b5+P

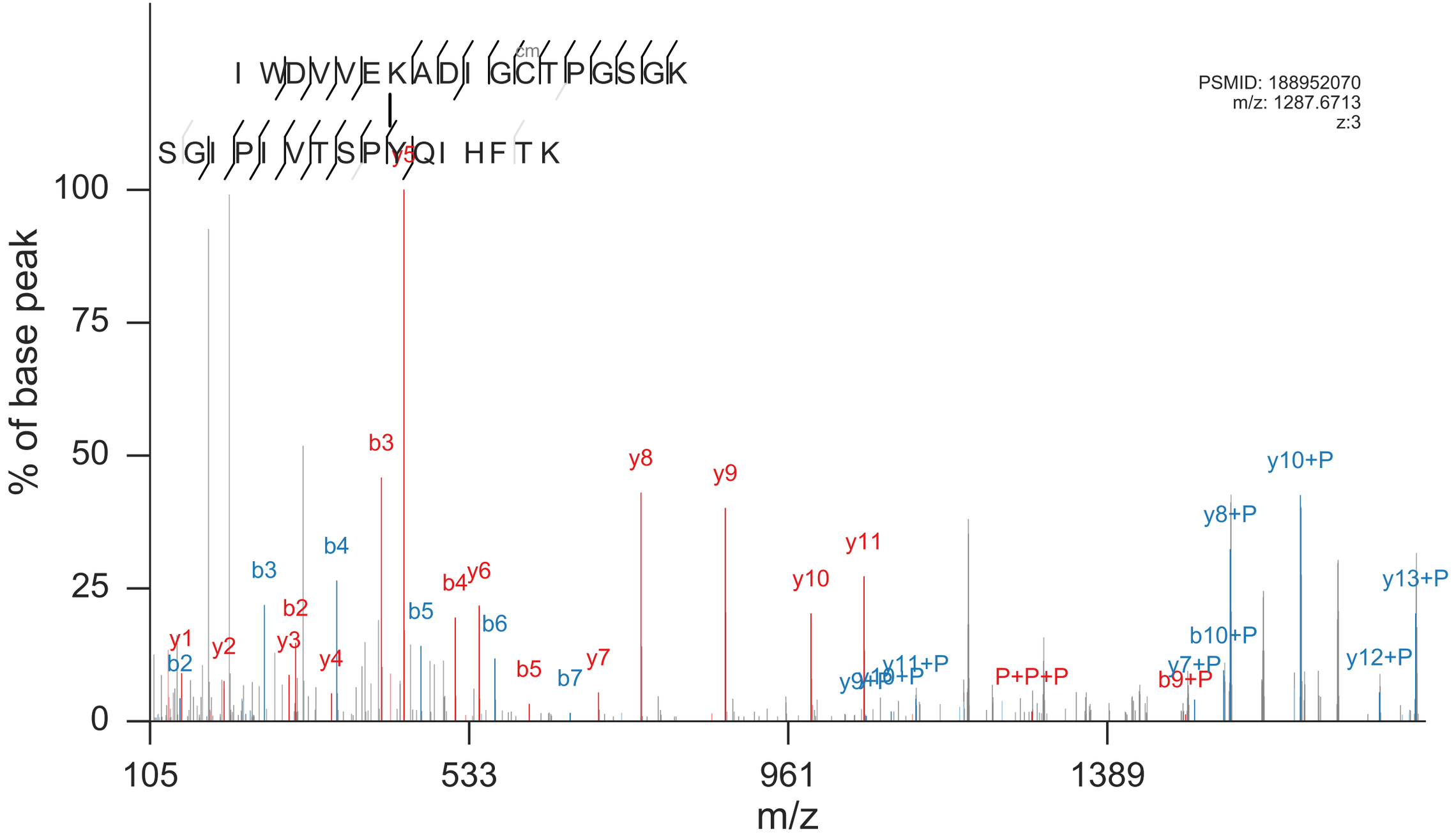

SPMoxYSIITPNILR
AHEAKIR
PSMID: 188951840
m/z: 829.4577
z:3
% of base peak
100
75
50
25
0
285
574
863
1152
m/z
y6
y5
b3+P
b1+P
b4+P
b5+P
b7+P
y8
y9
y5+P
y10
b8+P
y4+P
y7
b6+P
y3+P
b11+P
b12+P
y2
b3
y4
b2+P
y12
b3+P
y11
y12

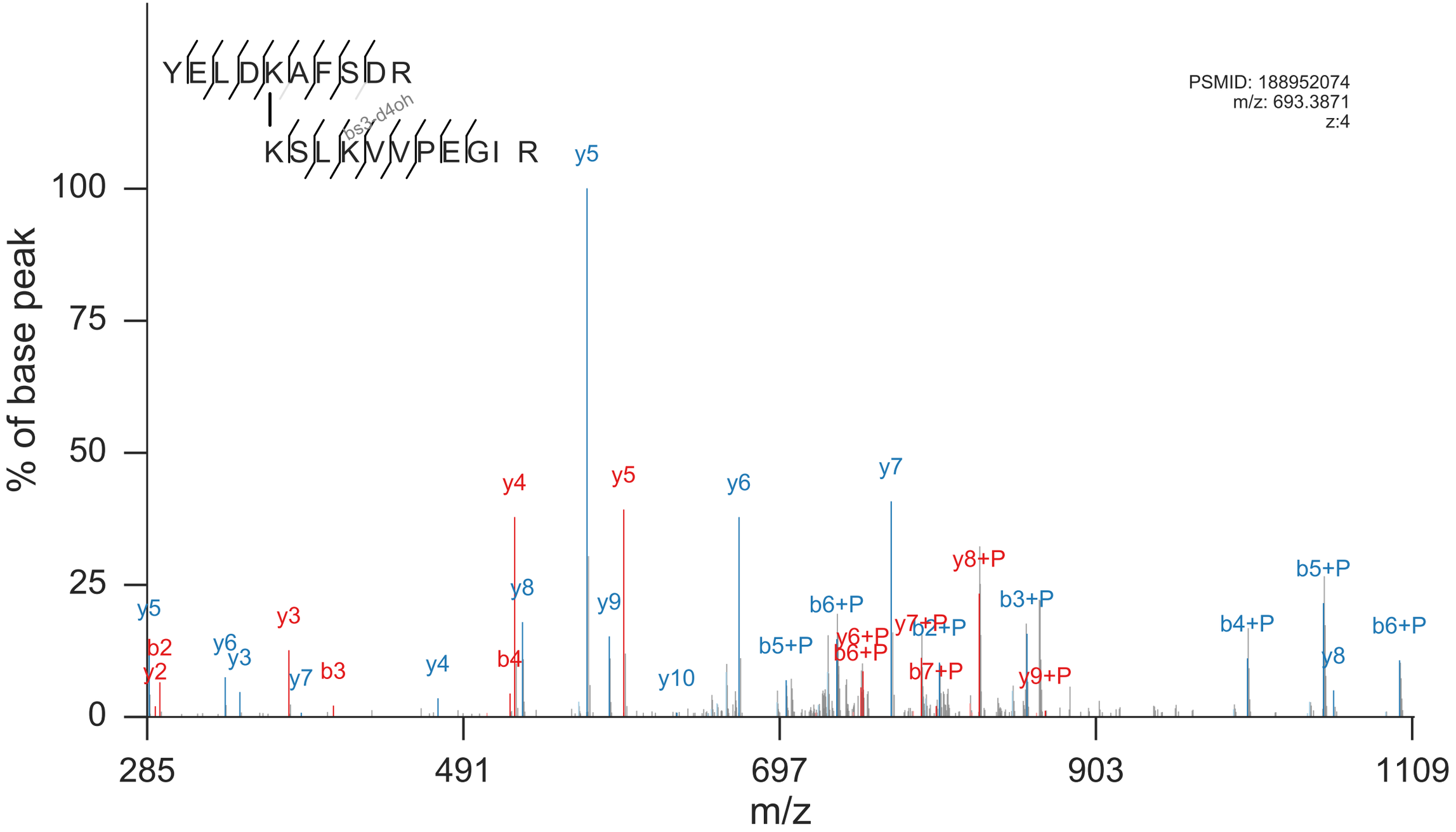

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
bs3:d4nh2
cm cm
M D K V G K Y P K
PSMID: 188951847
m/z: 727.2116
z:6
% of base peak
100
75
50
25
0
105
450
795
1140
m/z
y13
y12
y14
y10
y11
y2
b2
y1
b3
y3
y5
y6
y9
y3
y7
b5a
y4
y13
y15+P
y7
y15+P
b9
y1
b2
b2

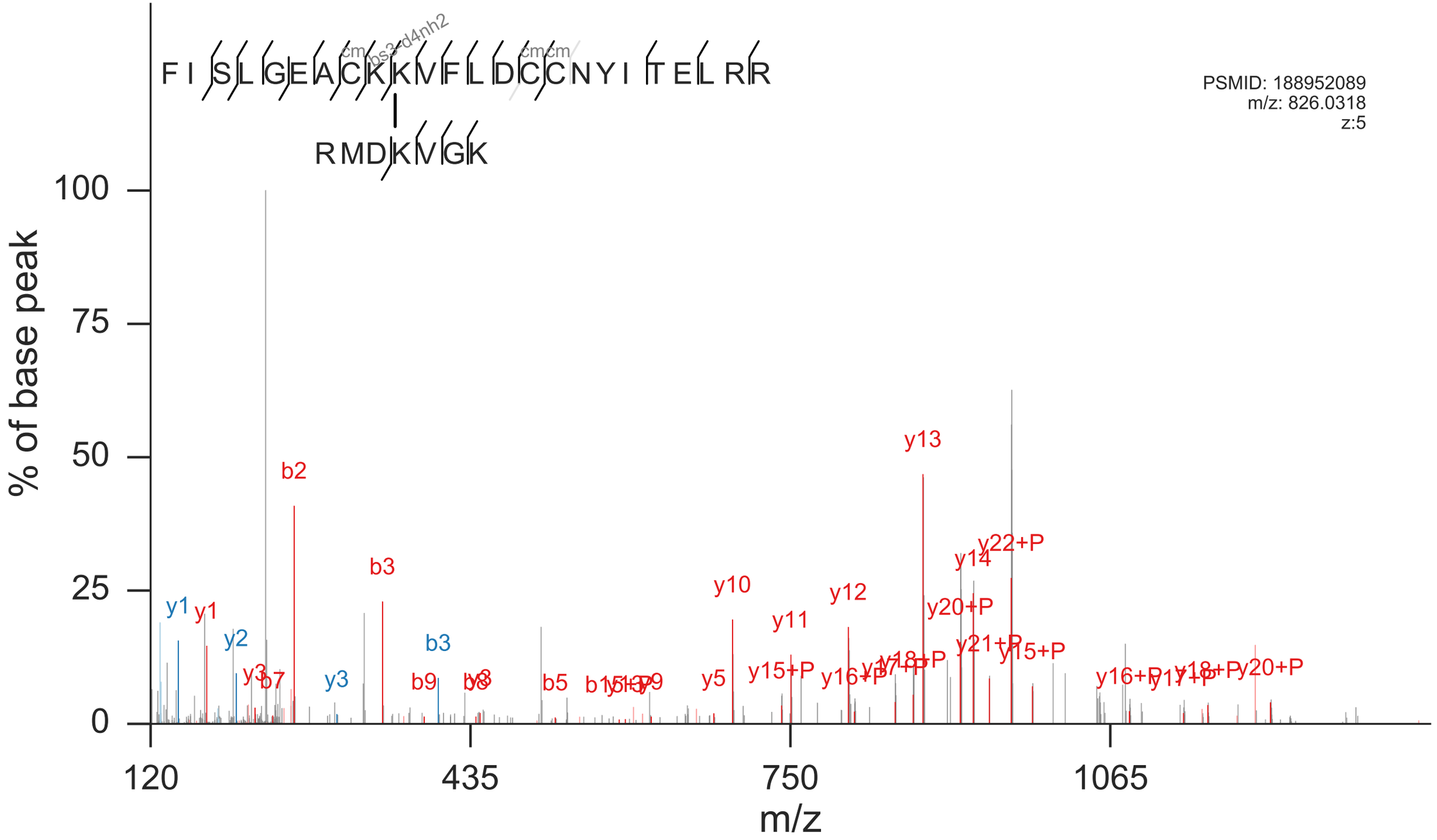

QPSSAFAAFVKR
KCCEDGMR
cm
cm
ox
PSMID: 188951897
m/z: 630.0415
z:4
% of base peak
100
75
50
25
0
195
386
577
768
959
m/z
y7+P
y8+P
y6
y4+P
y10+P
y3+P
y6+P
y9+P
b8
y3+P
y4+P
y5+P
y6+P
y3
y6
y7
y4

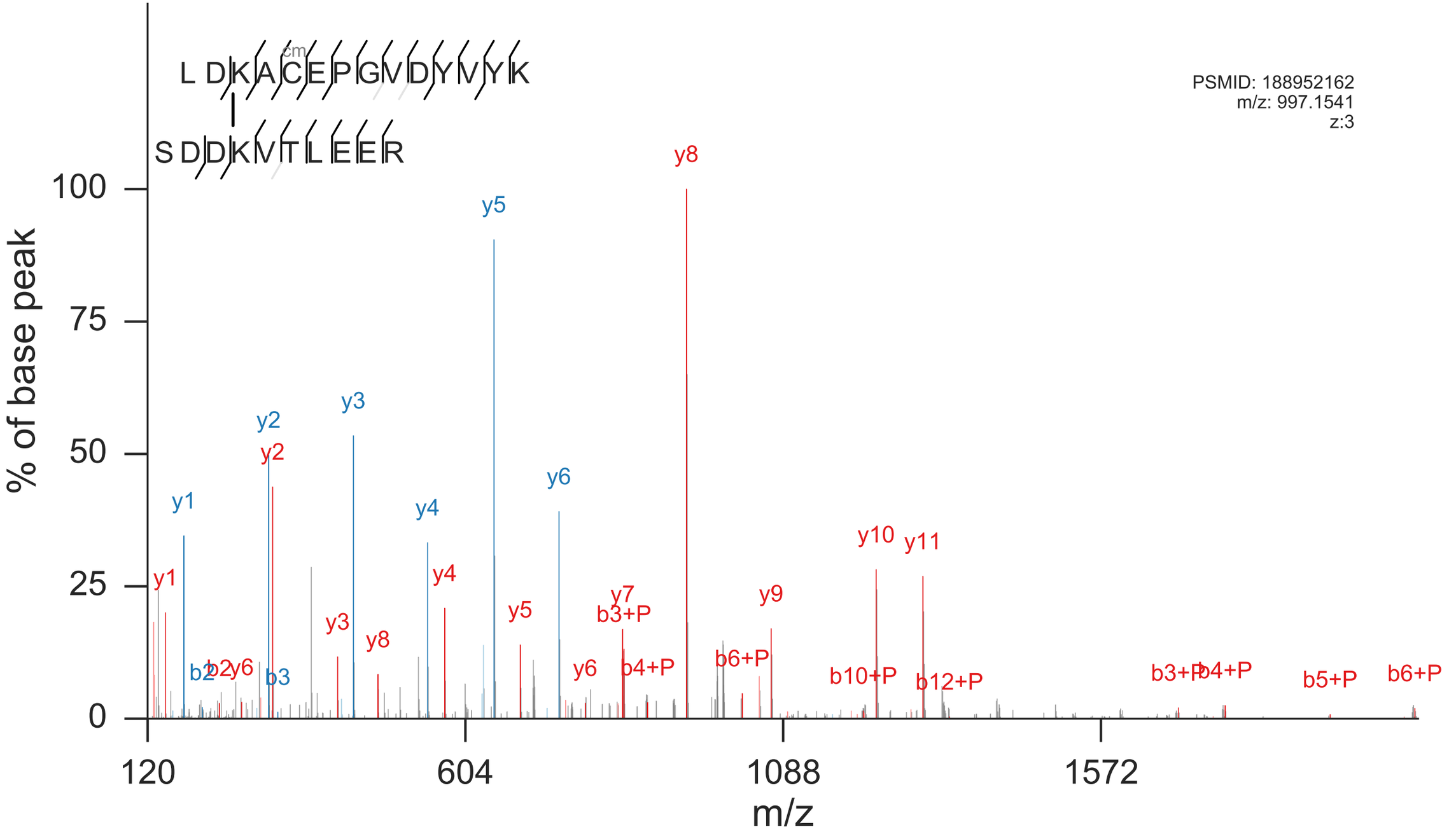

KGICVADPFEVTVMQDFFIDLR
IFTVNHKLLPVGR
cm
PSMID: 188951966
m/z: 847.0516
z:5
% of base peak
100
75
50
25
0
105
544
983
1422
m/z
y1
y2
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y15
b2
b3
b7+P
b3+P
b2+P
b10+P
b6+P
b8+P
b9+P
b11+P

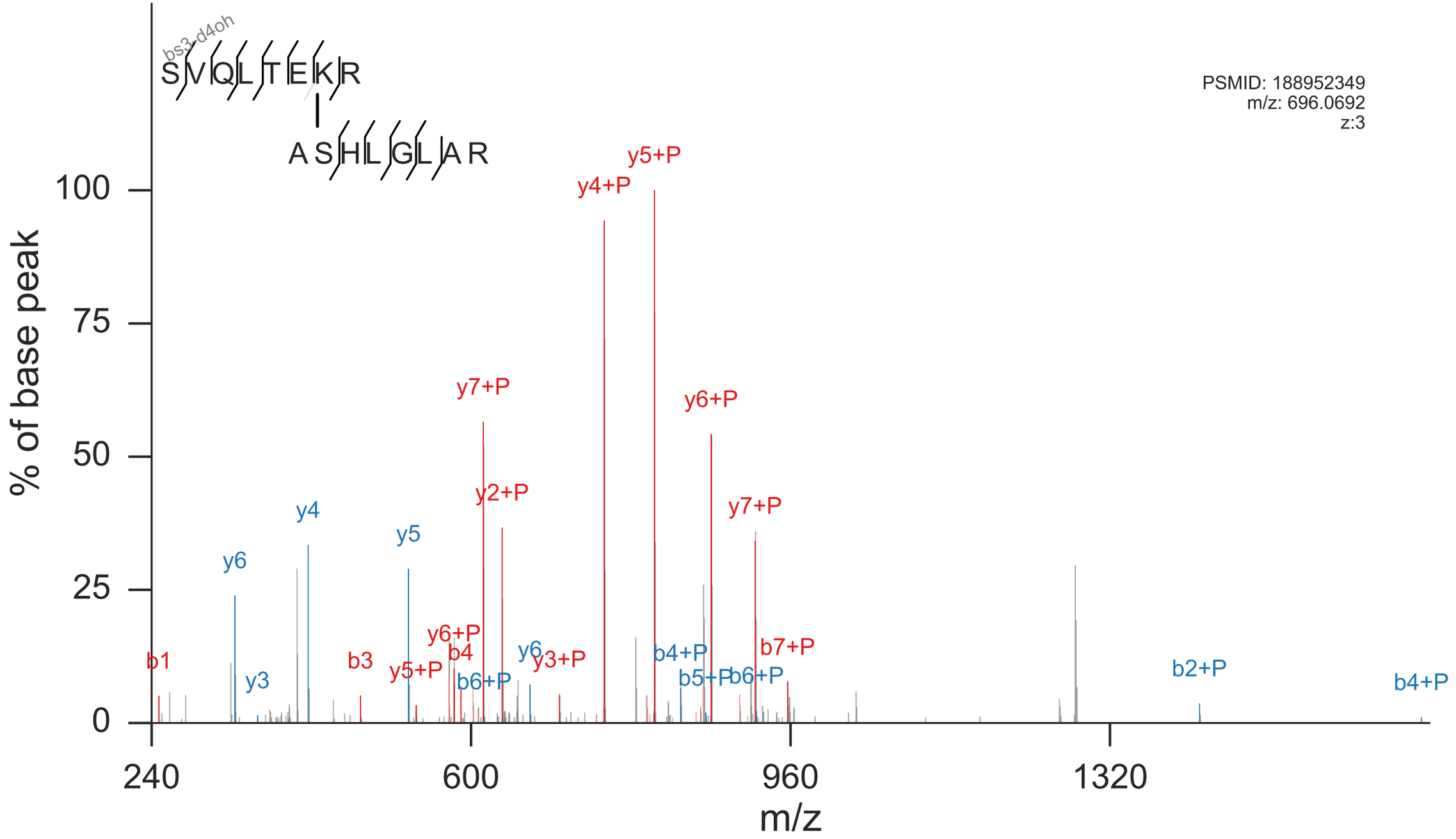

EALKLEEK
FYHPEKEDGKLNK
bs3-d4nh2
y4
PSMID: 188952009
m/z: 716.8861
z:4
% of base peak
100
75
50
25
0
255
503
751
999
m/z
y2
y4
y3
y3
b3
b6
b7
y5+P
b8
y6+P
y5+P
b9
y7+P
y10+P
b4+P
b6+P
y5+P
y6+P
y7+P
b6
b7
b8

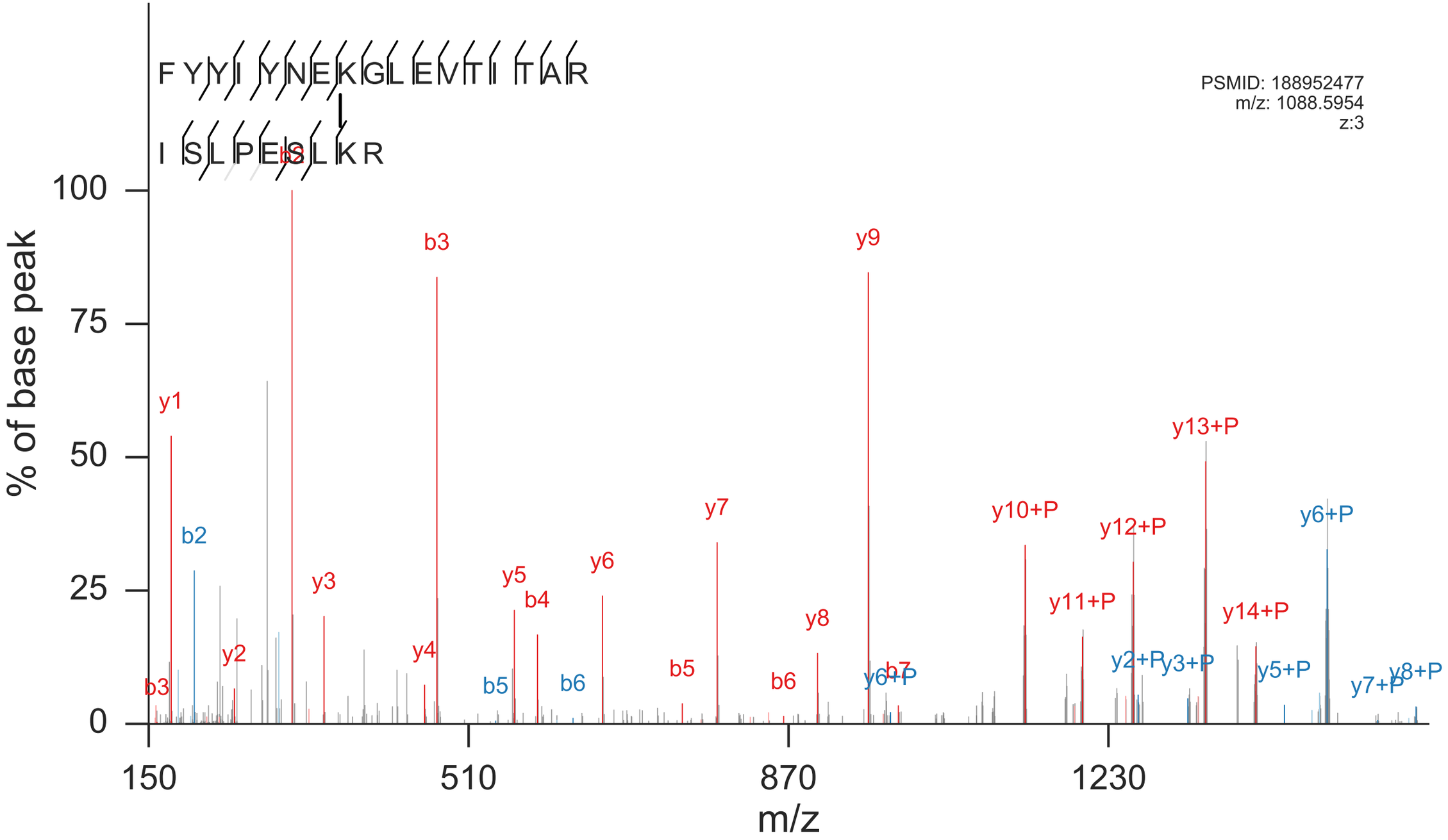

I W D V V E K A D I G C T P G S G K
S G I P I V T S P Y Q I H F T K
cm
y5
PSMID: 188952070
m/z: 1287.6713
z:3
% of base peak
100
75
50
25
0
105
533
961
1389
m/z
b3
y8
y9
y10+P
y8+P
y11
y10
b4
y6
b3
b4
b2
b5
b6
y13+P
y1
y2
y3
b2
y4
b5
b7
y7
y11+P
P+P+P
b10+P
y7+P
y12+P
b9+P

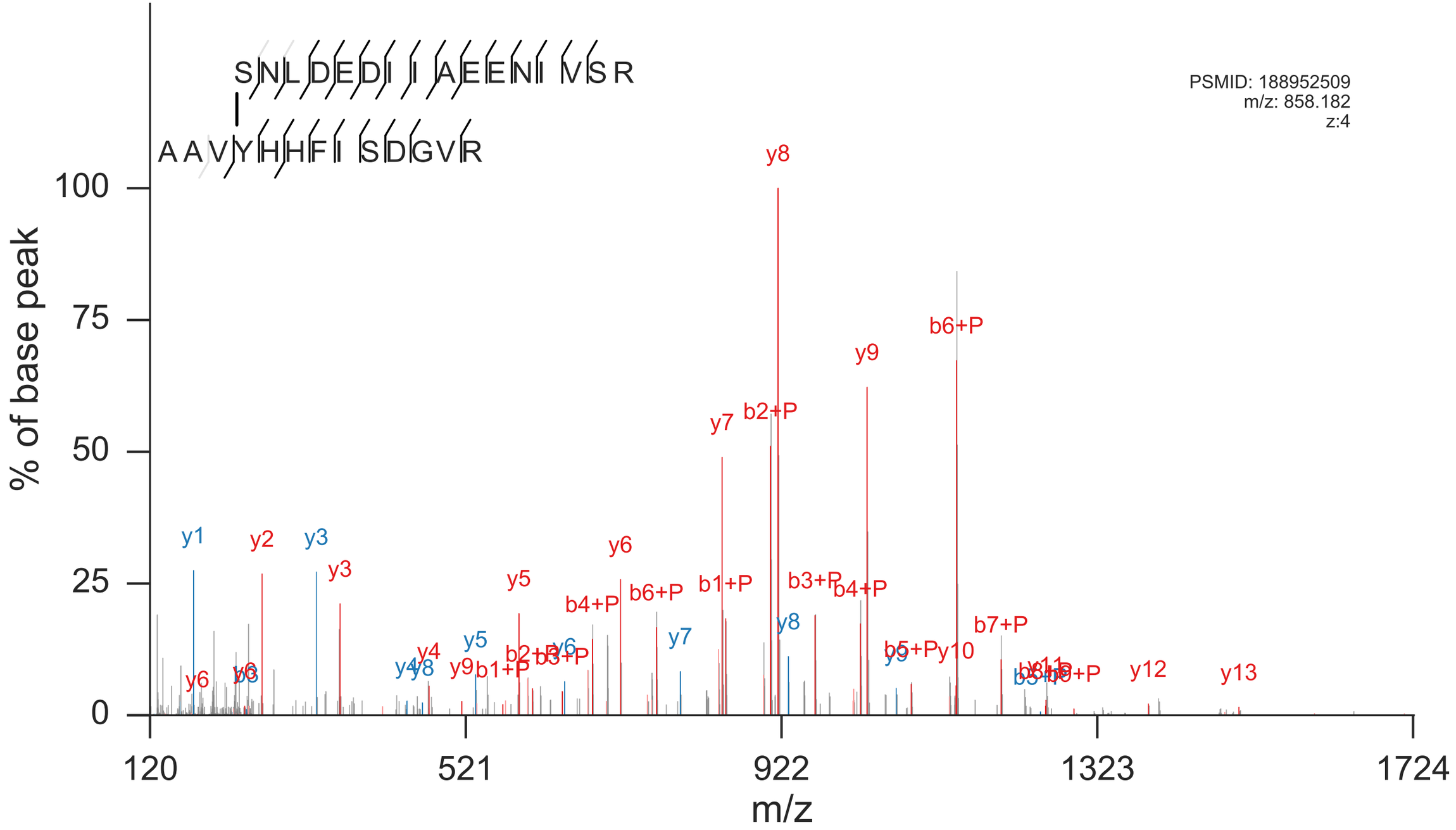

YELDKAFSDR
KSLKVVPEGI R
bs3-d4oh
PSMID: 188952074
m/z: 693.3871
z:4
% of base peak
100
75
50
25
0
285
491
697
903
1109
m/z
y5
y4
y5
y6
y7
y8
y9
y10
y3
b3
b4
b2
y2
b6+P
b5+P
y6+P
b6+P
y7+P
b2+P
b7+P
y8+P
b3+P
y9+P
b4+P
b5+P
b6+P
y8

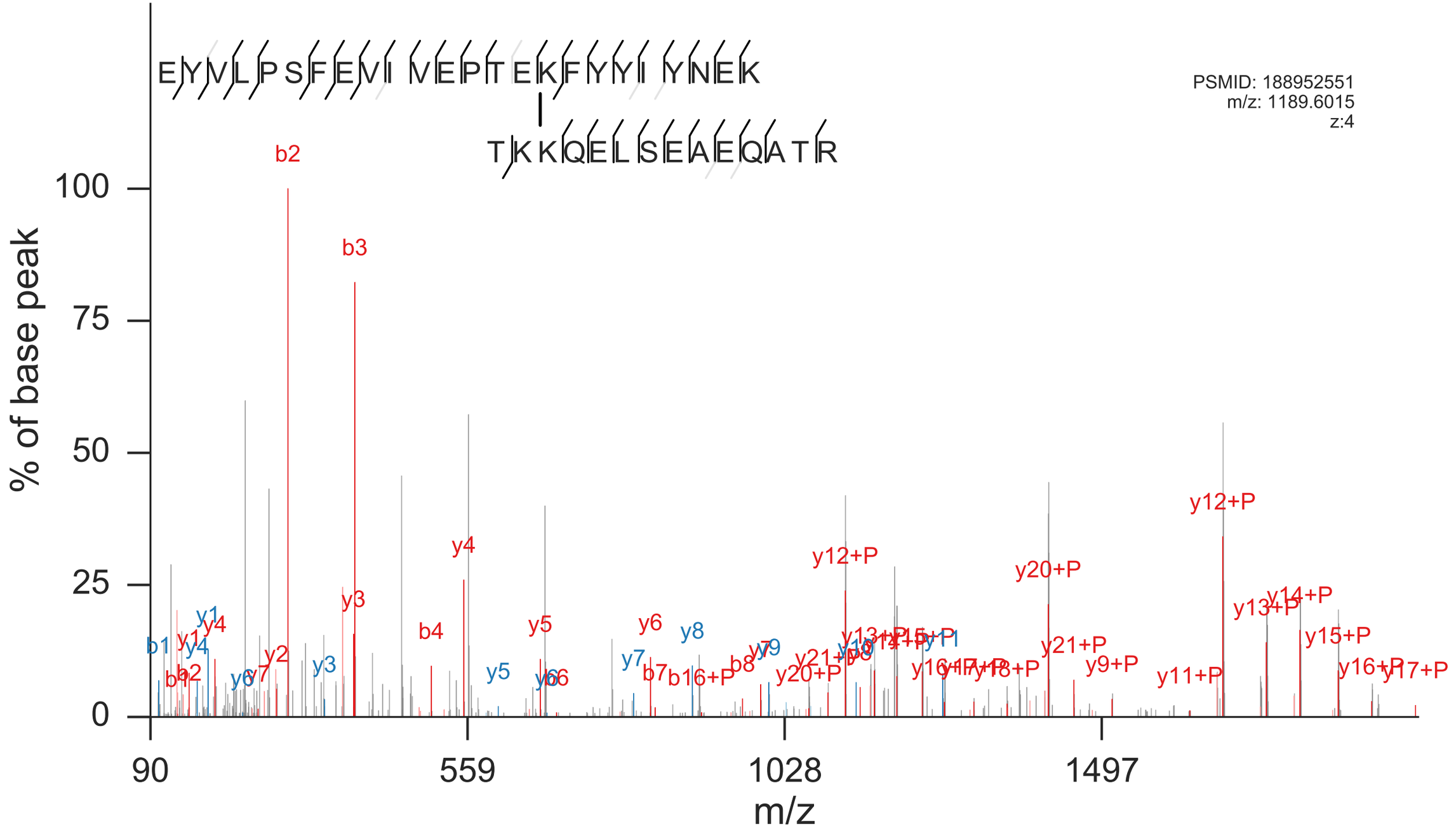

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
ps3rd4nh2
cmcm
R M D K V G K
PSMID: 188952089
m/z: 826.0318
z:5
% of base peak
100
75
50
25
0
120
435
750
1065
m/z
y1
y1
y2
y3
b7
y3
b2
b3
b3
b9
b5
y5
y10
y11
y12
y13
y14
y22+P
y20+P
y21+P
y15+P
y15+P
y16+P
y16+P
y20+P

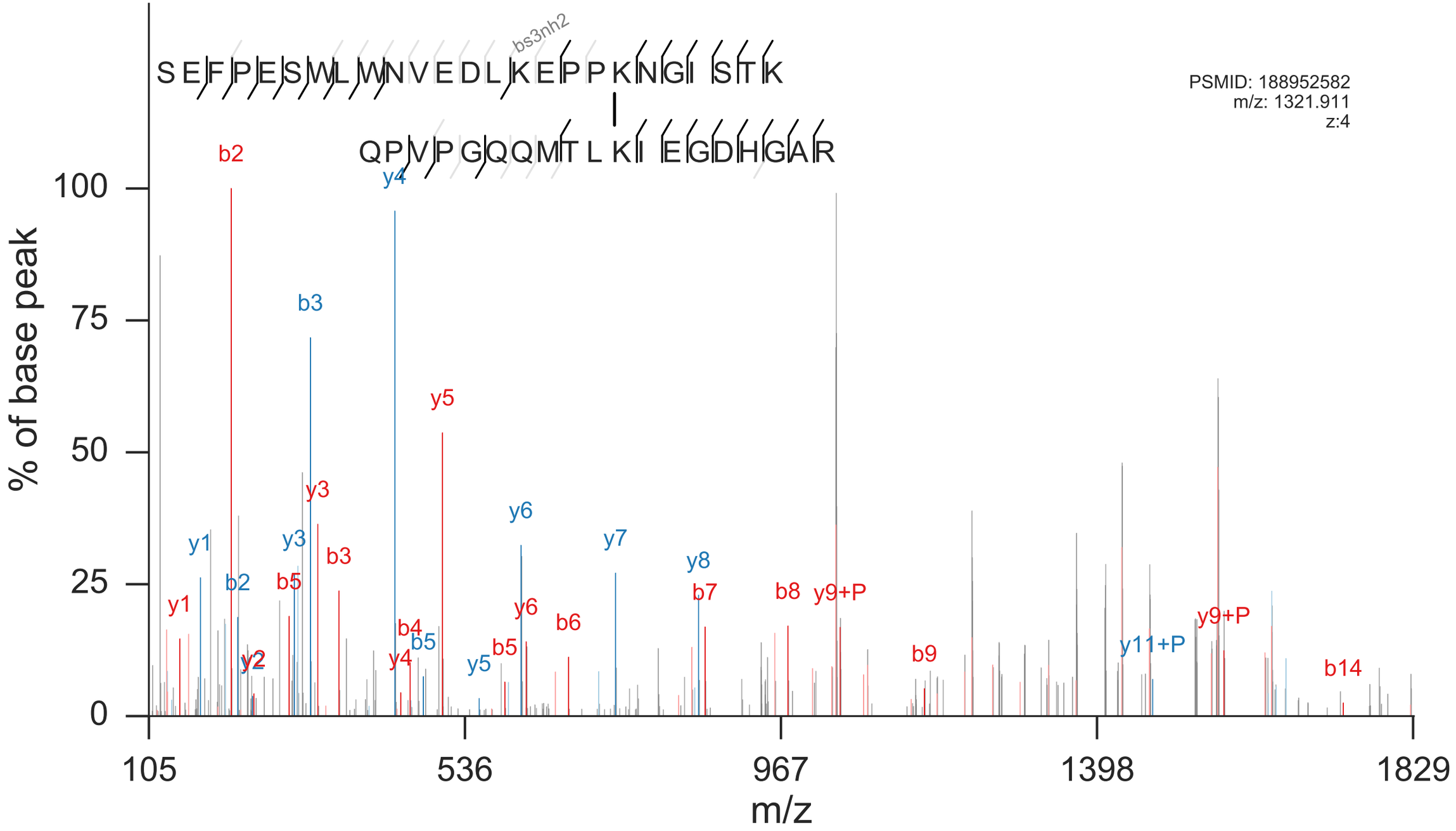

L D K A C E P G V D Y V Y K
cm
S D D K V T L E E R
PSMID: 188952162
m/z: 997.1541
z:3
% of base peak
100
75
50
25
0
120
604
1088
1572
m/z
y8
y5
y3
y2
y2
y6
y1
y4
y1
y4
y3
y8
y5
y7
b3+P
y9
y10
y11
b2
b2
y6
b3
y6
b4+P
b6+P
b10+P
b12+P
b3+P
b4+P
b5+P
b6+P

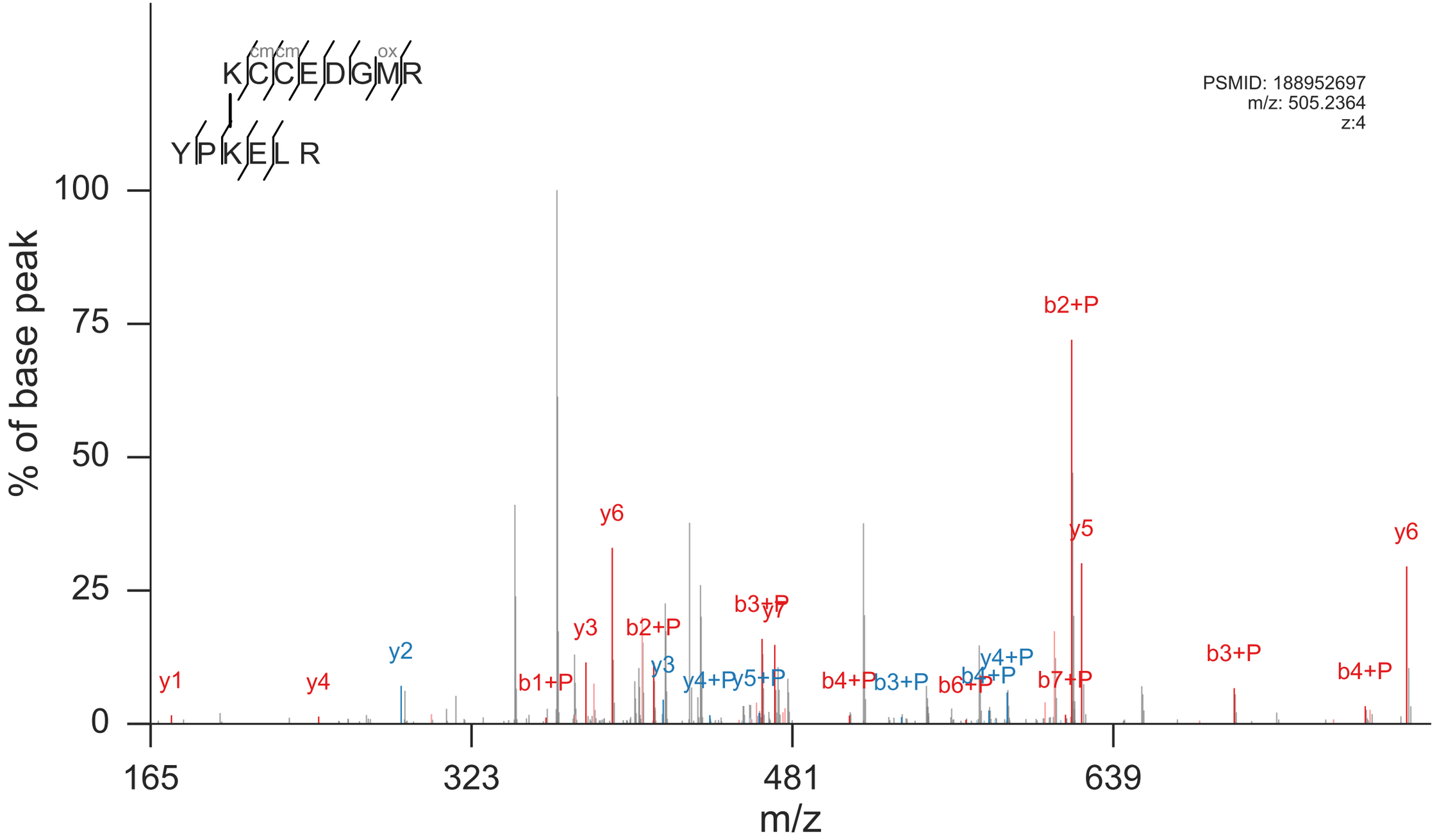

bs3-d4oh
SVQLTEKR
ASHLGLAR
PSMID: 188952349
m/z: 696.0692
z:3
% of base peak
100
75
50
25
0
240
600
960
1320
m/z
y5+P
y4+P
y7+P
y6+P
y2+P
y7+P
y4
y5
y6
y6+P
b4
y6
y3+P
b4+P
b7+P
b1
y3
b3
y5+P
b6+P
b5+P
b6+P
b2+P
b4+P

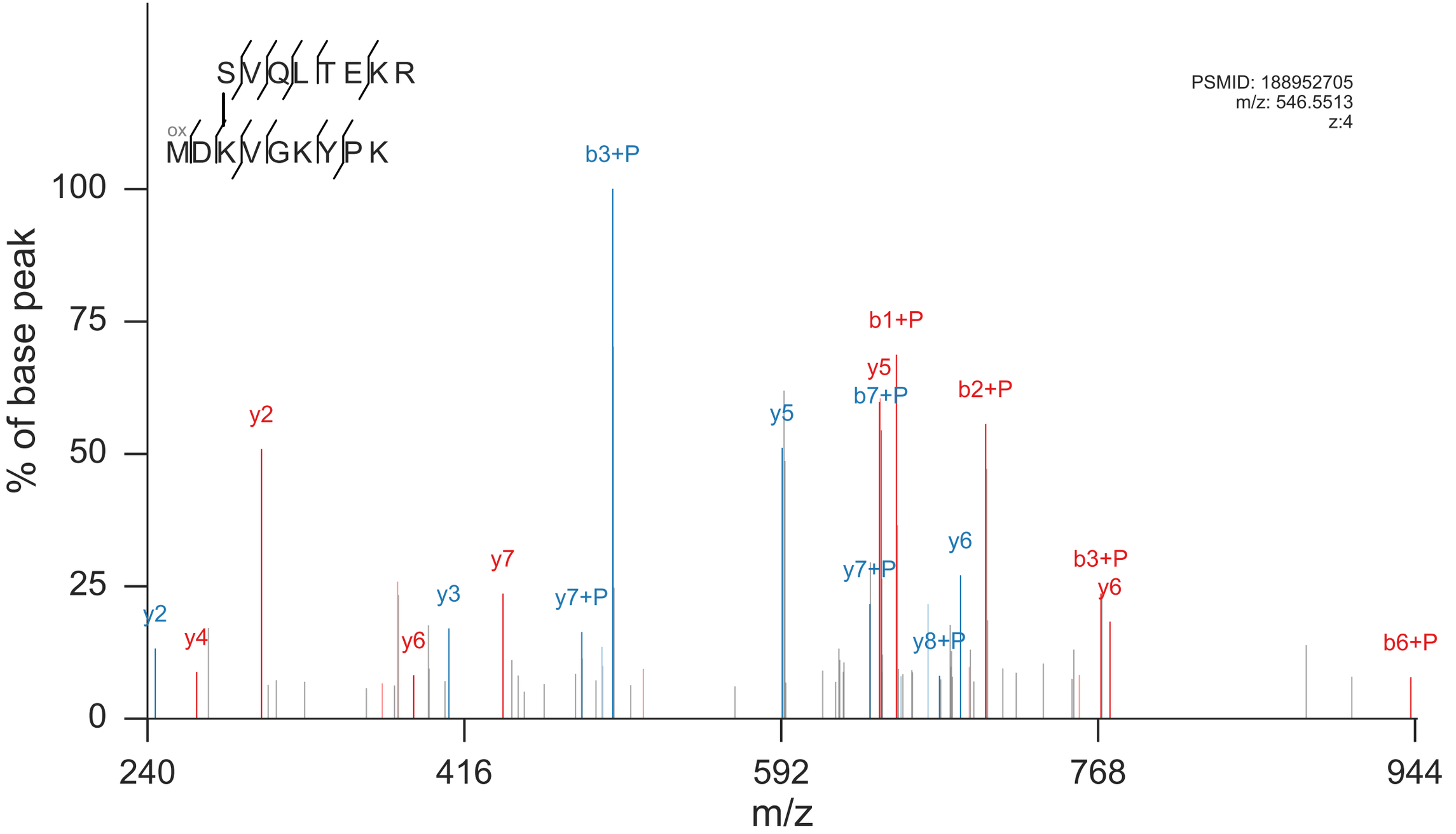

F Y Y I Y N E K G L E V T I T A R
I S L P E S L K R
PSMID: 188952477
m/z: 1088.5954
z:3
% of base peak
100
75
50
25
0
150
510
870
1230
m/z
b2
b3
y1
y2
y3
y4
y5
b4
y6
b5
b6
y7
y8
y9
y10+P
y11+P
y12+P
y13+P
y14+P
y2+P
y3+P
y5+P
y6+P
y7+P
y8+P

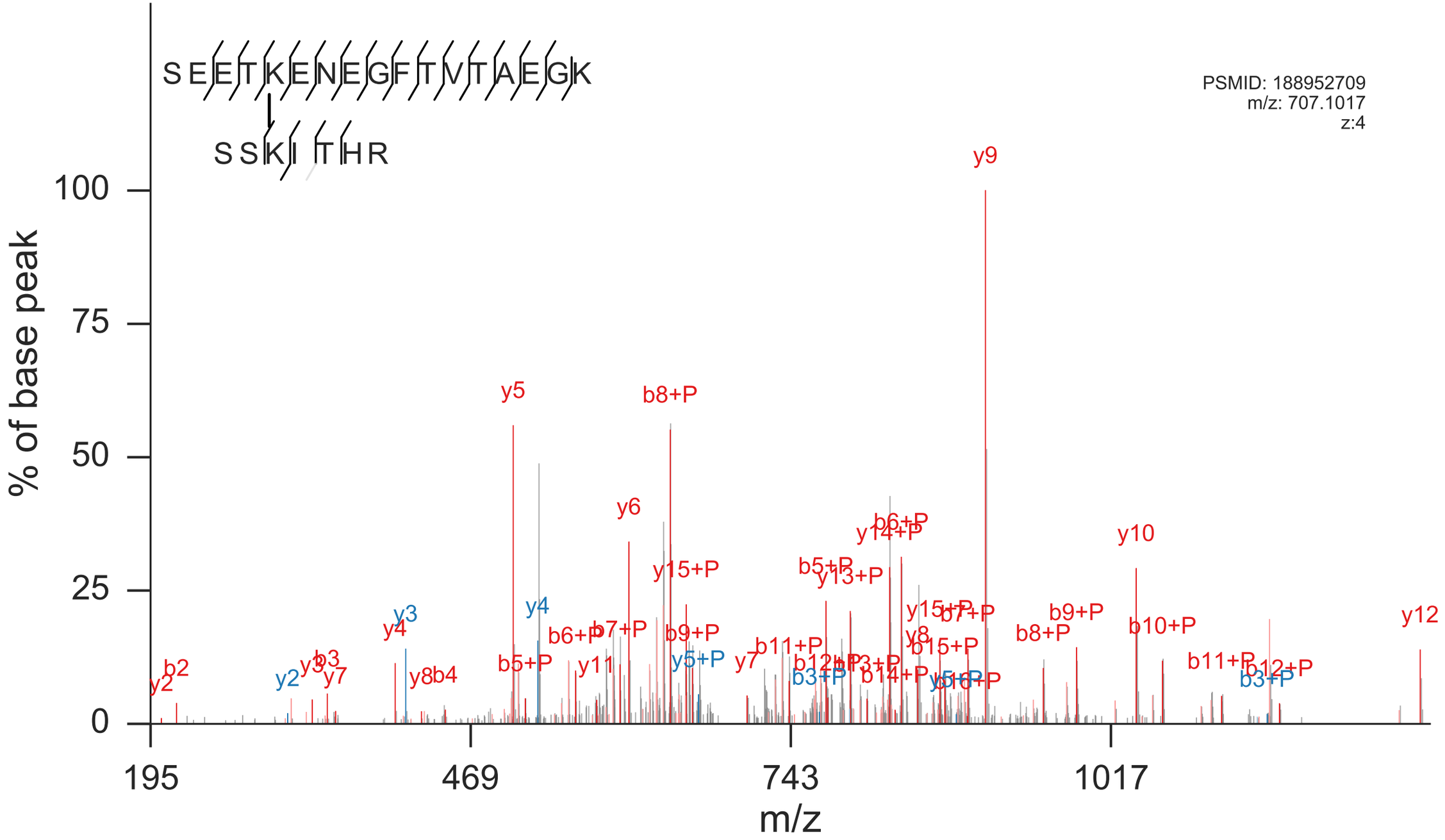

SNLDEDIIAEENIVSR
AAVYHHFISDGVR
PSMID: 188952509
m/z: 858.182
z:4
% of base peak
100
75
50
25
0
120
521
922
1323
1724
m/z
y8
y9
b6+P
y7
b2+P
y1
y2
y3
y3
y6
y5
b4+P
b6+P
b1+P
b3+P
b4+P
y8
b7+P
y7
y5
y4
y6
y9
b1+P
b2+P
b3+P
y9
b5+P
y10
y12
y13
y6
y6

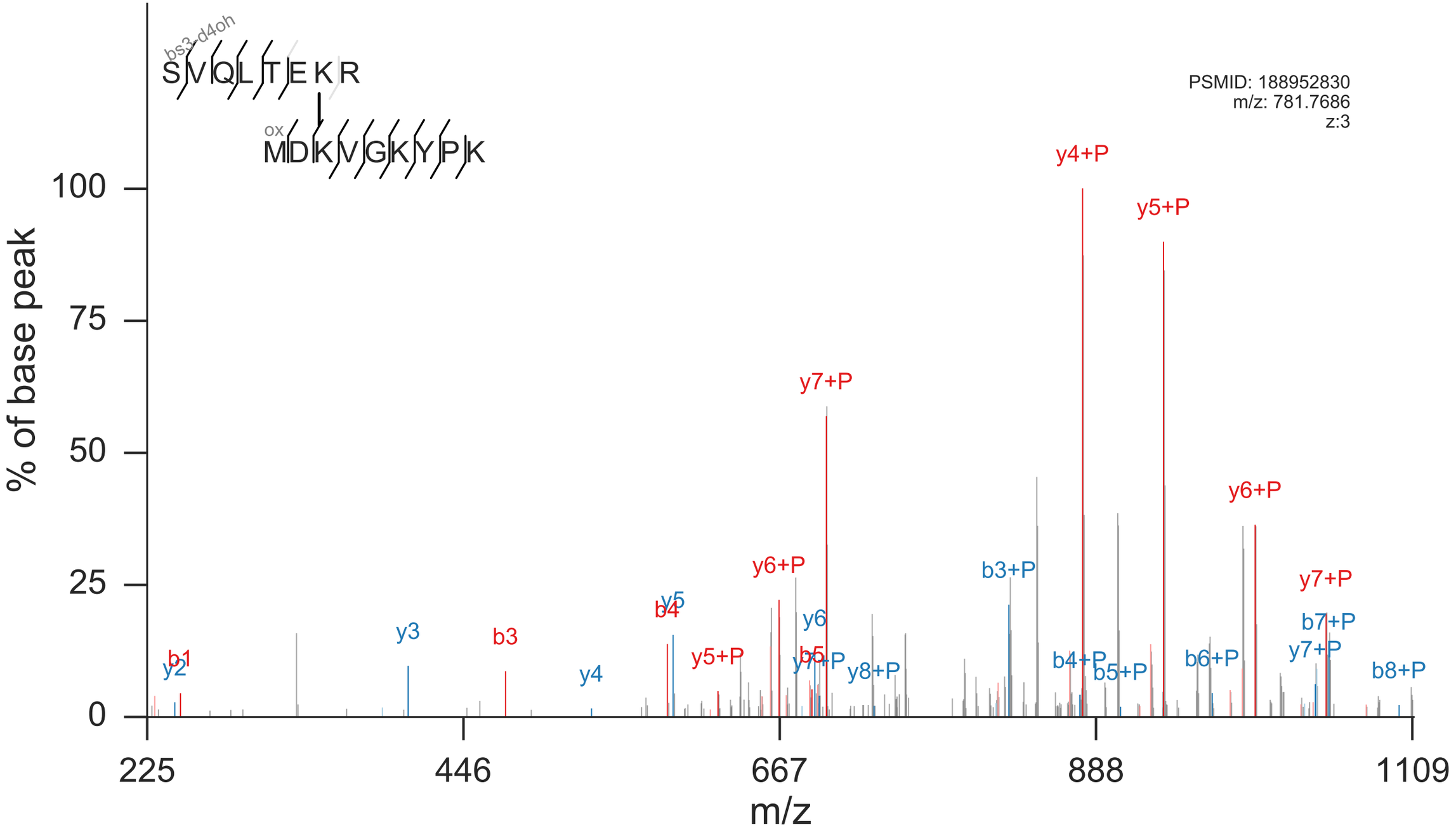

EYVLPSFEVIVEPTEKFYYIYNEK
TKKQELSEAEQATR
PSMID: 188952551
m/z: 1189.6015
z:4
% of base peak
100
75
50
25
0
90
559
1028
1497
m/z
b2
b3
y4
y3
b4
y5
y6
y8
y7
b7
b16+P
b8
y9
y20+P
y12+P
y21+P
y16+P
y18+P
y9+P
y11+P
y20+P
y12+P
y13+P
y14+P
y15+P
y16+P
y17+P
y1
y4
b1
b2
y6
y7
y2
y3
y5
y6

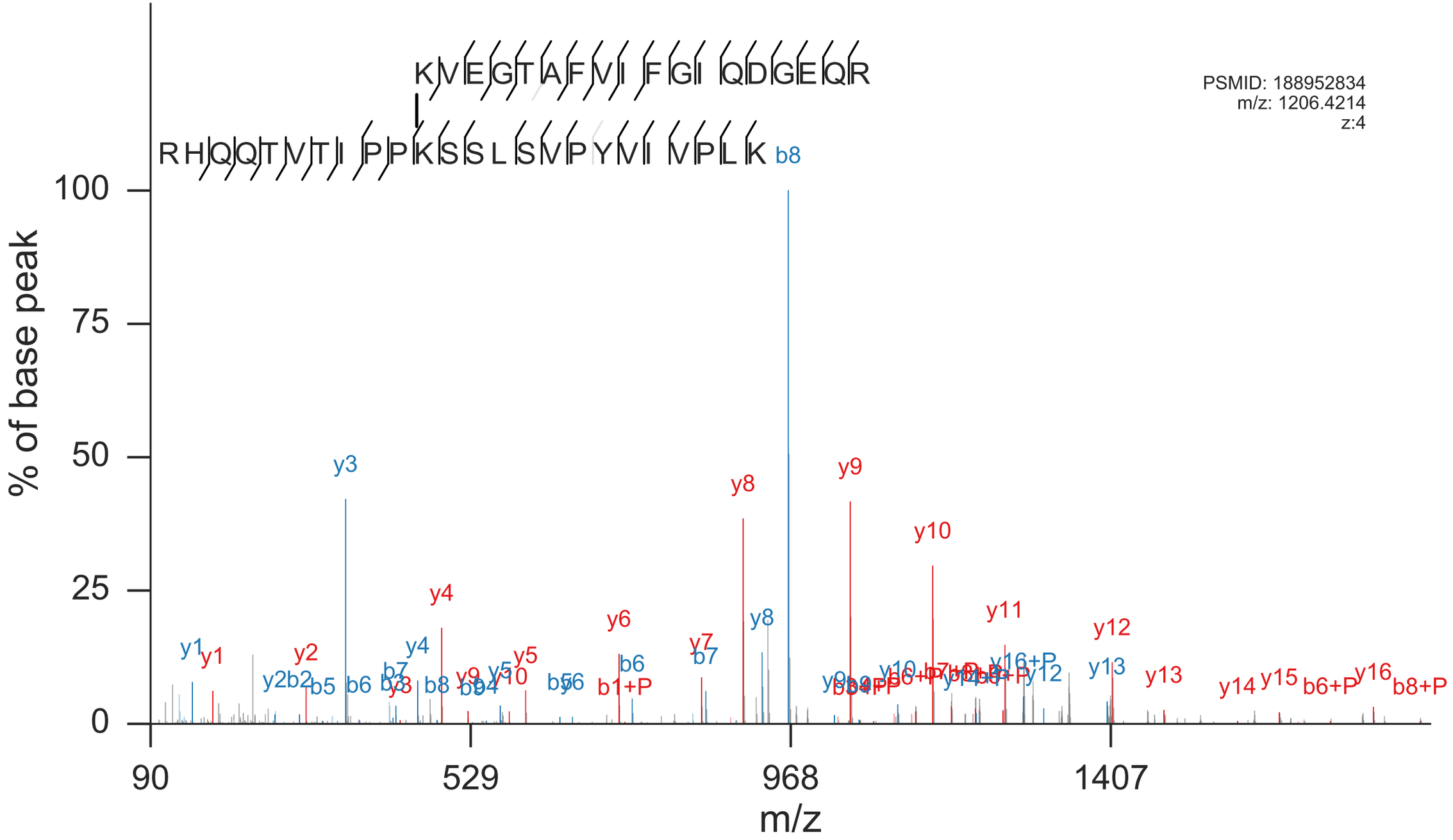

S E F P E S W L W N V E D L K E P P K N G I S T K
bs3nh2
Q P V P G Q Q M T L K I E G D H G A R
PSMID: 188952582
m/z: 1321.911
z:4
% of base peak
100
75
50
25
0
105
536
967
1398
1829
m/z
b2
y4
b3
y5
y3
y6
y1
y3
y7
b3
y8
b2
b5
b7
b8
y9+P
y1
y6
b6
y9+P
b4
b5
b5
y11+P
y2
y4
y5
b9
b14

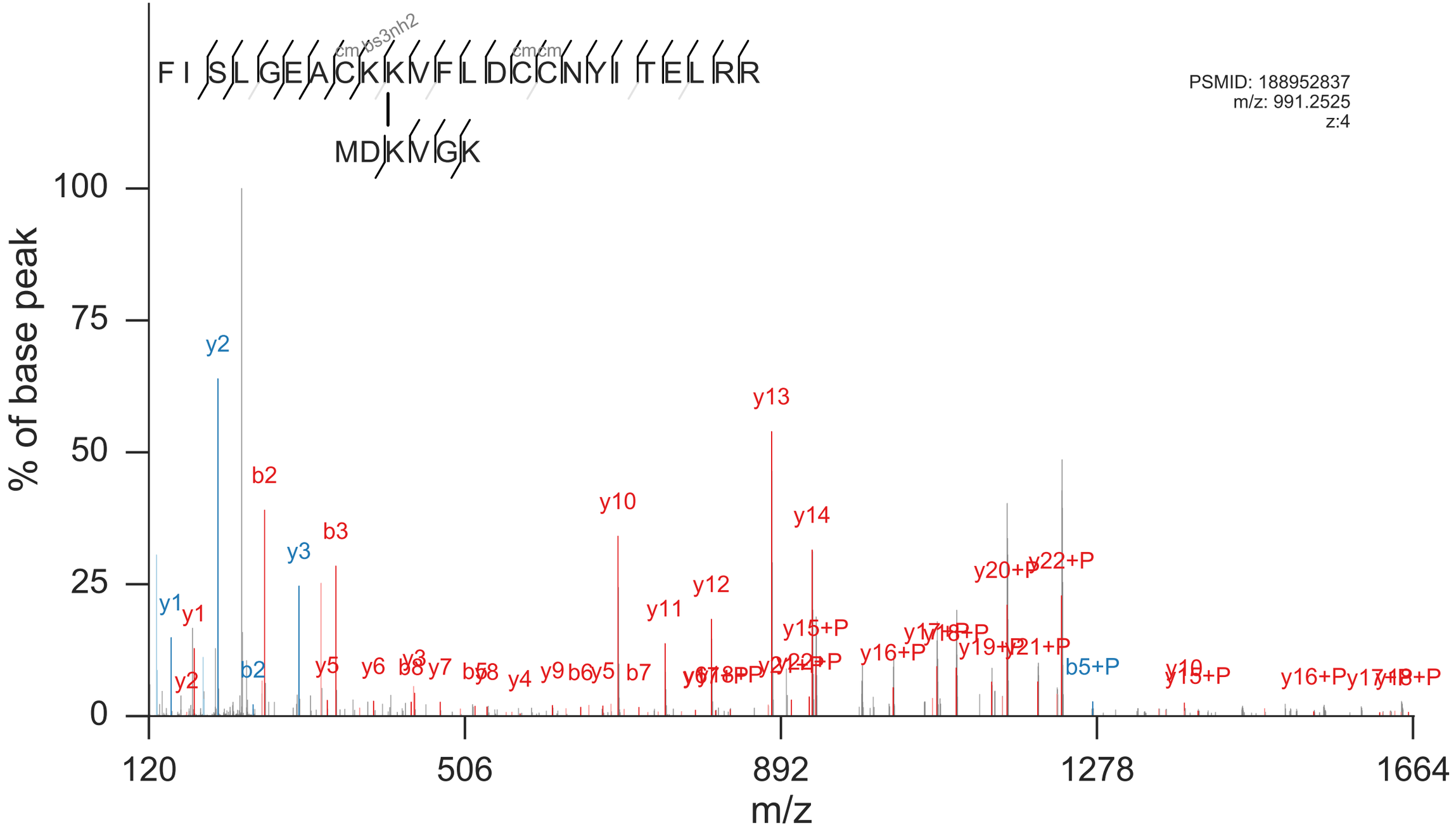

cmcm
ox
K C C E D G M R
Y P K E L R
PSMID: 188952697
m/z: 505.2364
z:4
% of base peak
100
75
50
25
0
165
323
481
639
m/z
b2+P
y6
y5
y6
b3+P
y7
y3
b2+P
y2
y3
y4+P
y5+P
b4+P
b3+P
b6+P
y4+P
b4+P
b7+P
b3+P
b4+P
y1
y4
b1+P

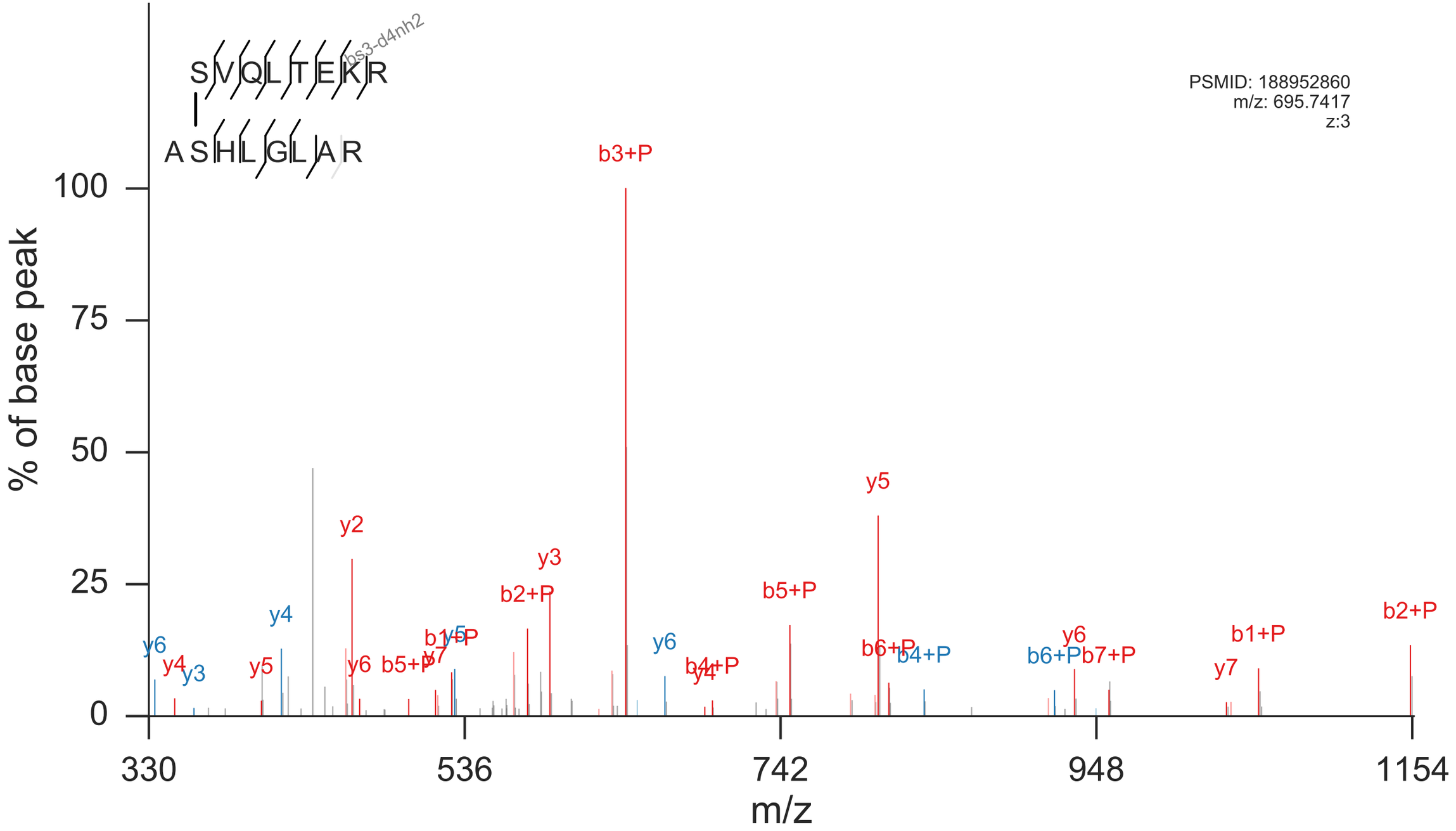

SVQLTEKR
ox
MDKVGKYPK
PSMID: 188952705
m/z: 546.5513
z:4
% of base peak
100
75
50
25
0
240
416
592
768
944
m/z
b3+P
b1+P
y5
b7+P
b2+P
y2
y5
y7
y3
y7+P
y6
y7+P
b3+P
y6
y2
y4
y6
y8+P
b6+P

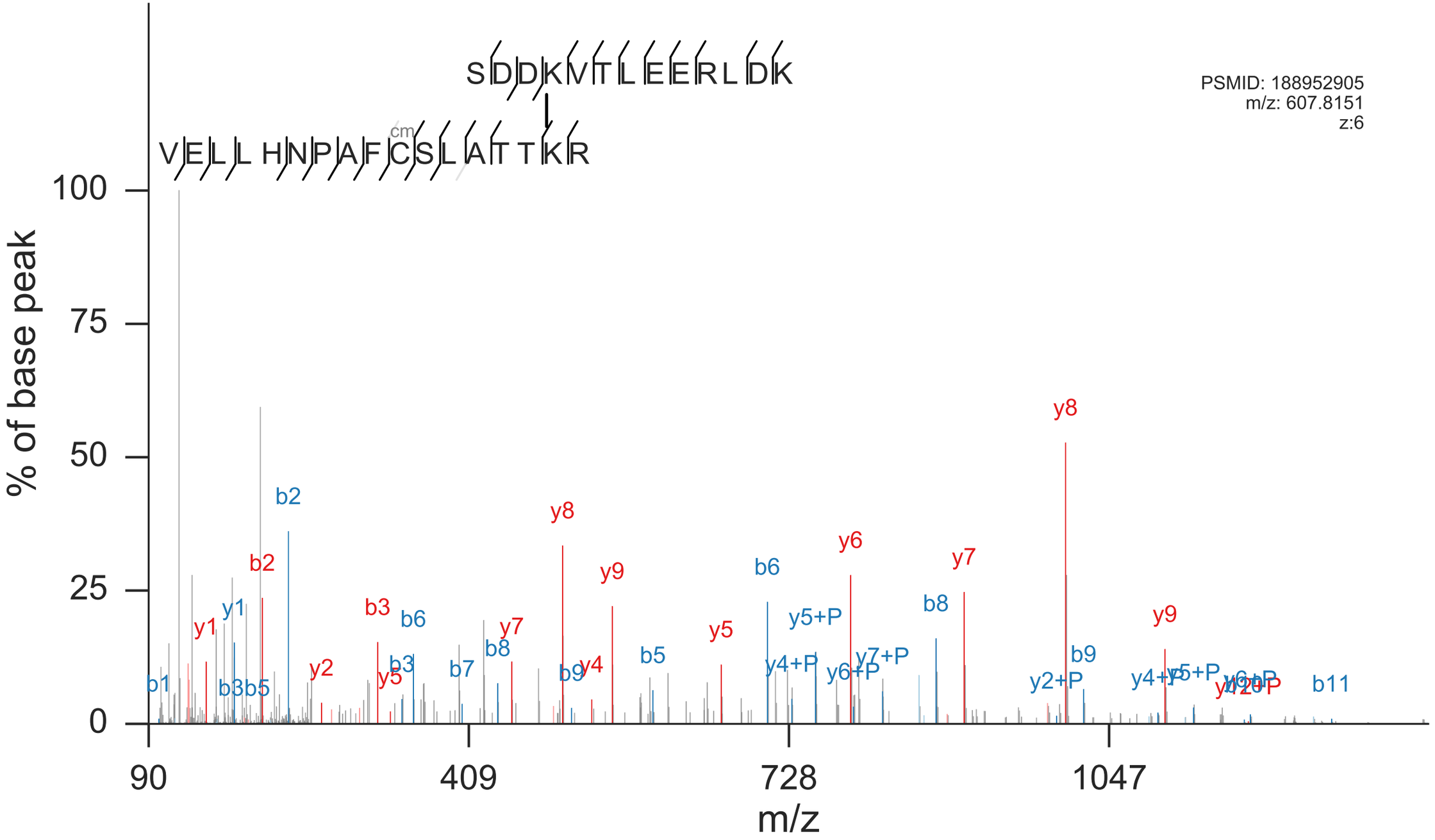

S E E T K E N E G F T V T A E G K
S S K I T H R
PSMID: 188952709
m/z: 707.1017
z:4
% of base peak
100
75
50
25
0
195
469
743
1017
m/z
y9
y5
b8+P
y6
y15+P
y4
y3
b6+P
b7+P
b9+P
y5+P
y7
b11+P
b5+P
y11
y2
b2
y8
b4
b3
y10
b10+P
y12
b12+P
y13+P
y14+P
b14+P
b15+P

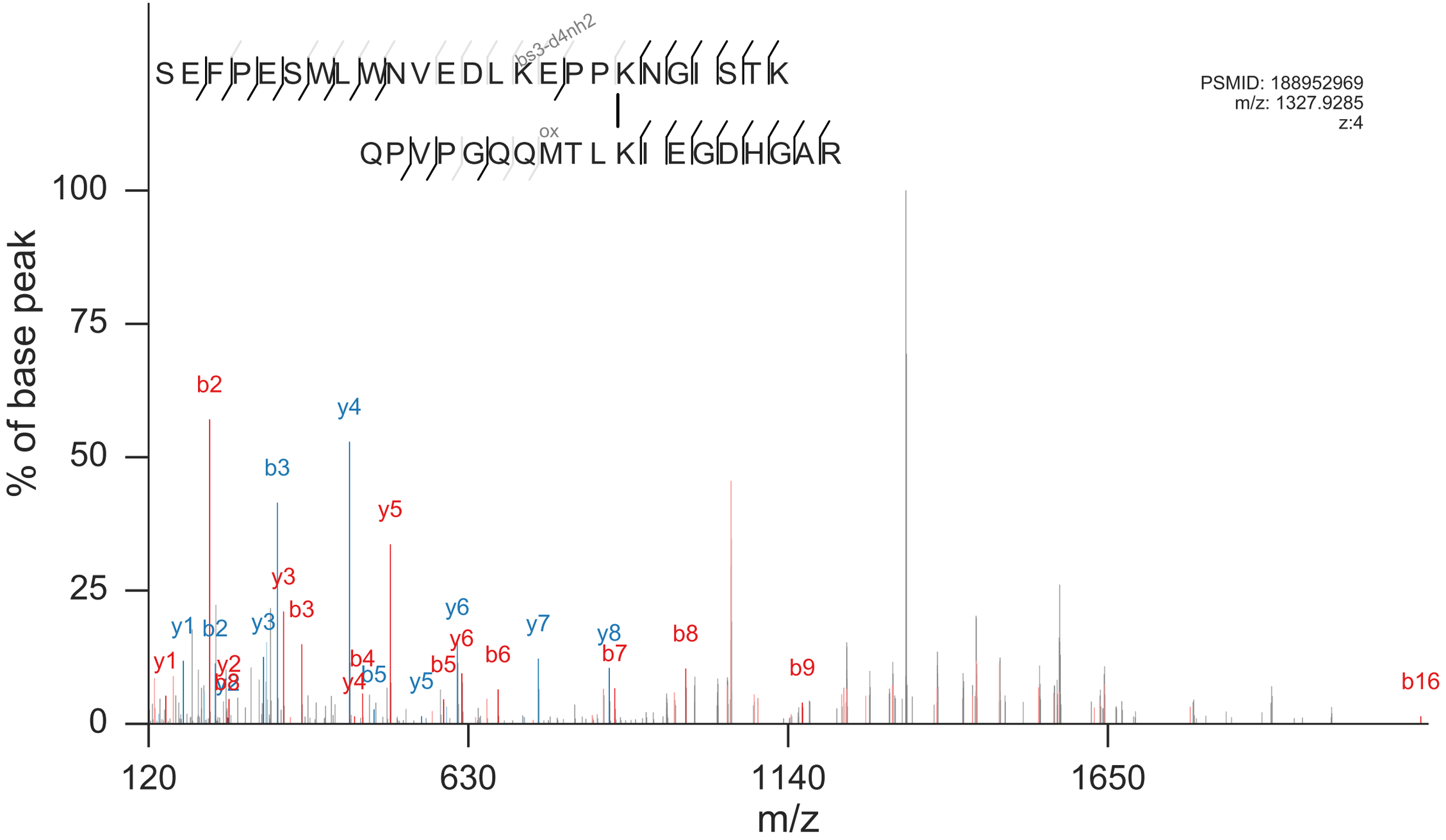

bs3-d4oh
SIVQLTEKR
ox
MDKVGKYPK
PSMID: 188952830
m/z: 781.7686
z:3
% of base peak
100
75
50
25
0
225
446
667
888
1109
m/z
y4+P
y5+P
y7+P
y6+P
b3+P
y7+P
b7+P
y7+P
b8+P
b6+P
b4+P
b5+P
y8+P
y7+P
y6
y5
b4
y5+P
y6+P
b5
y4
y3
b3
b1
y2

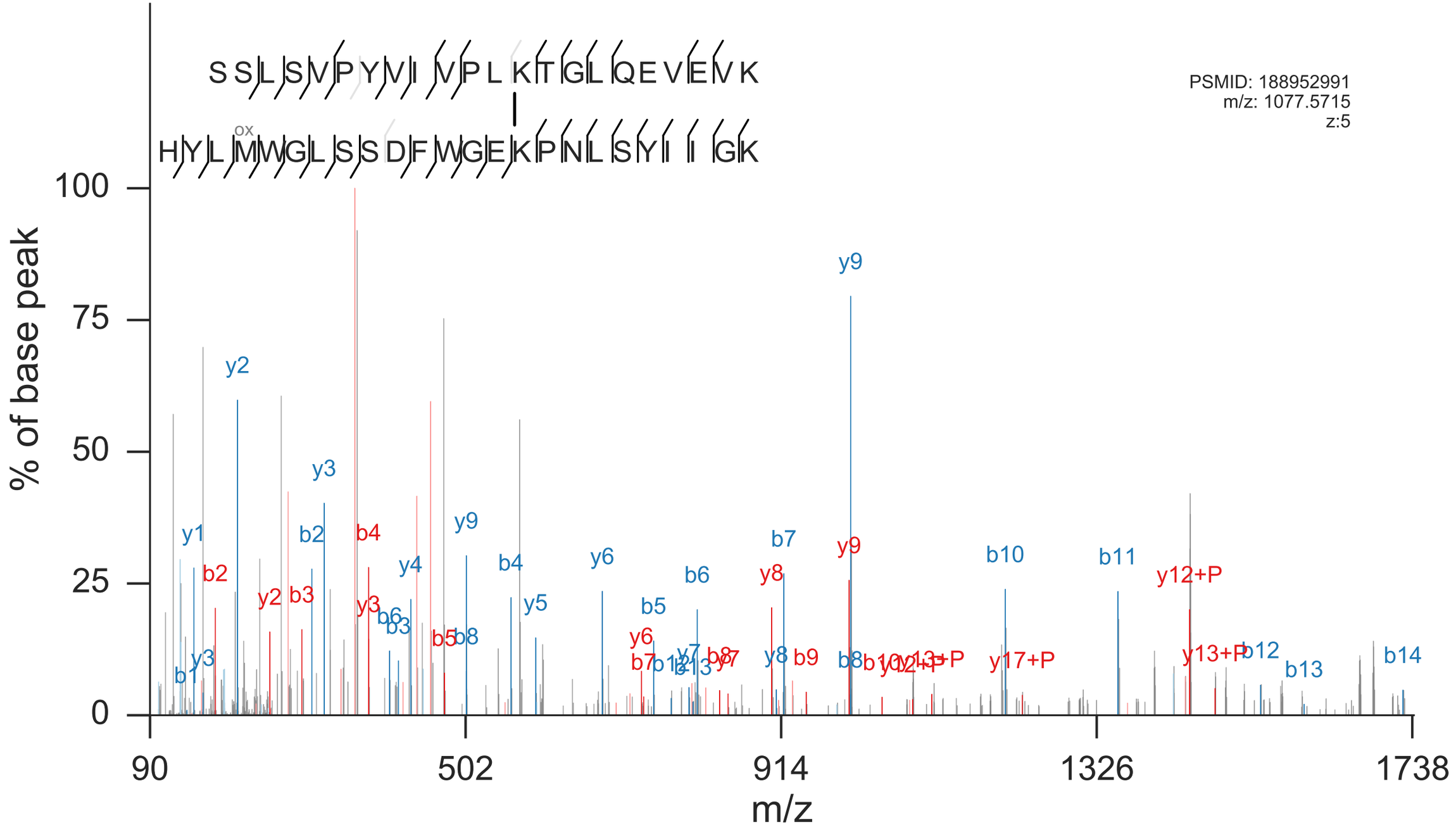

KVEGTAFVIFGIQDGEQR
RHQQTVTIPPKSSLSVPYVIVPLK
b8
PSMID: 188952834
m/z: 1206.4214
z:4
% of base peak
100
75
50
25
0
90
529
968
1407
m/z
y3
y4
y6
y7
y8
y9
y10
y11
y12
y13
y14
y15
y16
b6+P
b8+P
b1+P
y16+P

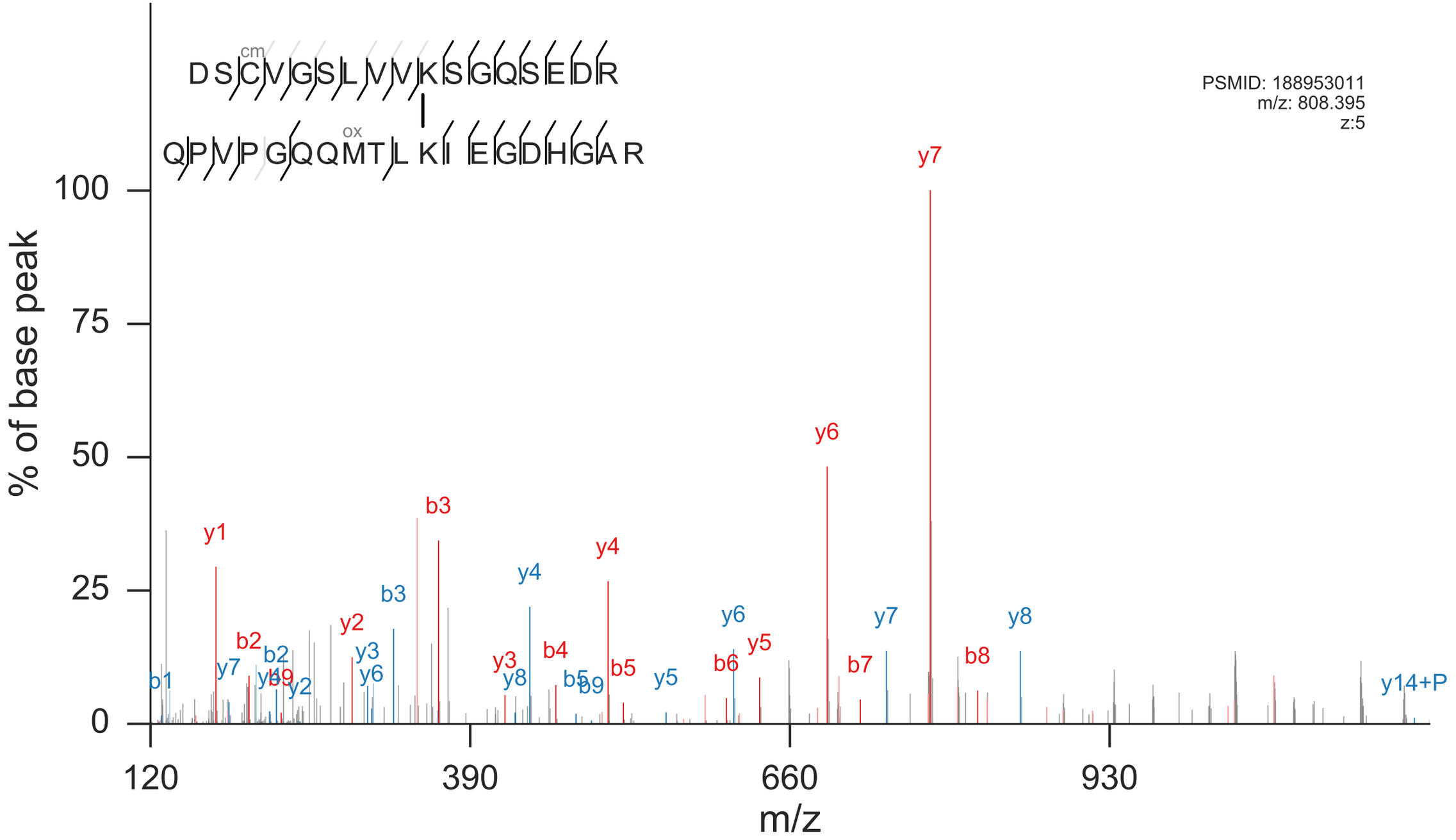

F I S L G E A cmcmss3nh2 K K V F L D cmcm C N Y I T E L R R
M D K V G K
PSMID: 188952837
m/z: 991.2525
z:4
% of base peak
100
75
50
25
0
120
506
892
1278
1664
m/z
y2
b2
b3
y3
y1
y1
y2
b2
y5
y6
y3
y7
y4
y9
b6
y5
b7
y10
y11
y12
y13
y14
y15+P
y16+P
y20+P
y22+P
b5+P
y15+P
y16+P

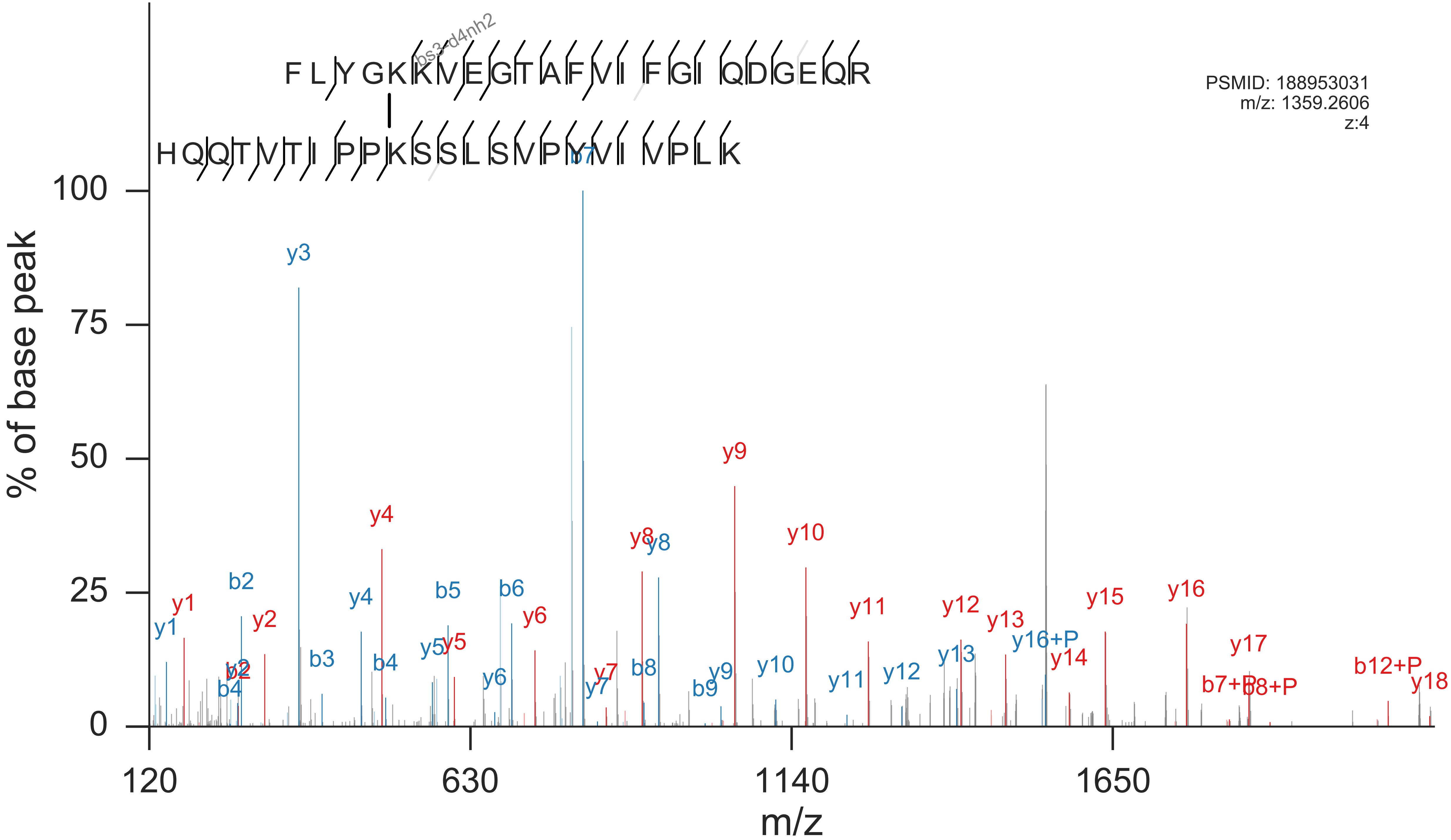

SVQLTEKR
bs3-d4nh2
ASHLGLAR
PSMID: 188952860
m/z: 695.7417
z:3
% of base peak
100
75
50
25
0
330
536
742
948
1154
m/z
b3+P
y2
y3
y4
y5
y6
b2+P
b5+P
b1+P
b4+P
b6+P
b7+P
y7


SDDKVTLEERLDK
VELLHNPAFCSLATTKR
cm
PSMID: 188952905
m/z: 607.8151
z:6
% of base peak
100
75
50
25
0
90
409
728
1047
m/z
b1
b2
b3b5
y1
b2
y2
b3
y5
b6
y1
b3
b7
y7
b8
y8
b9
y4
y9
b5
y5
b6
y5+P
y4+P
y6+P
y7+P
y6
y7
b8
y8
b9
y2+P
y9
y4+P
y5+P
y6+P
y2+P
b11

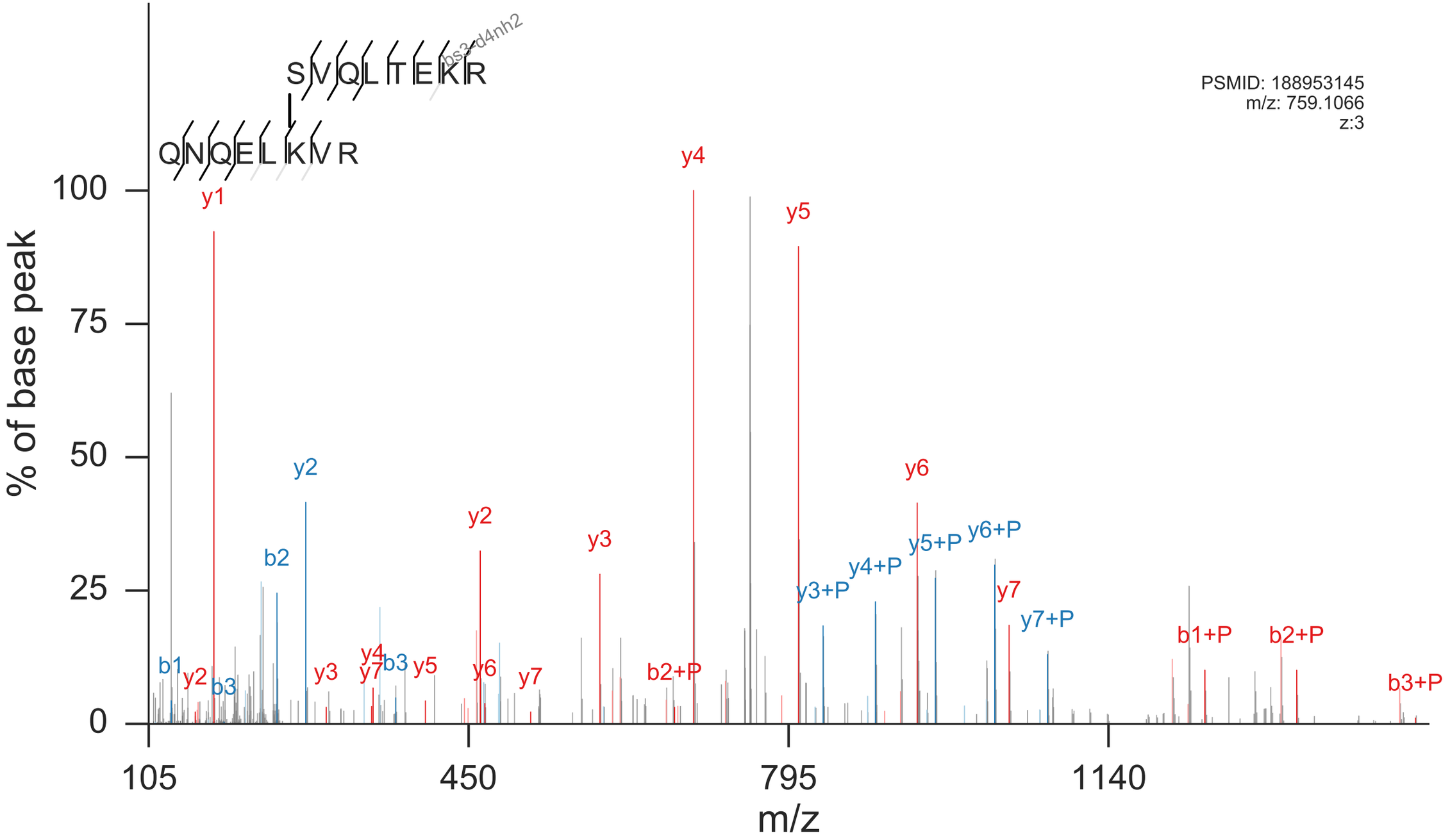

SEFPESWLWNVEDLKEPPKNGISTK
bs3-d4nh2
QPVPGQQMTLKIEGDHGAR
ox
PSMID: 188952969
m/z: 1327.9285
z:4
% of base peak
100
75
50
25
0
120
630
1140
1650
m/z
b2
y4
b3
y5
y3
b3
y1
b2
y3
y6
y7
y8
b8
y6
b7
y1
y2
b4
b5
b6
b5
b9
b16
y4
b5
y5

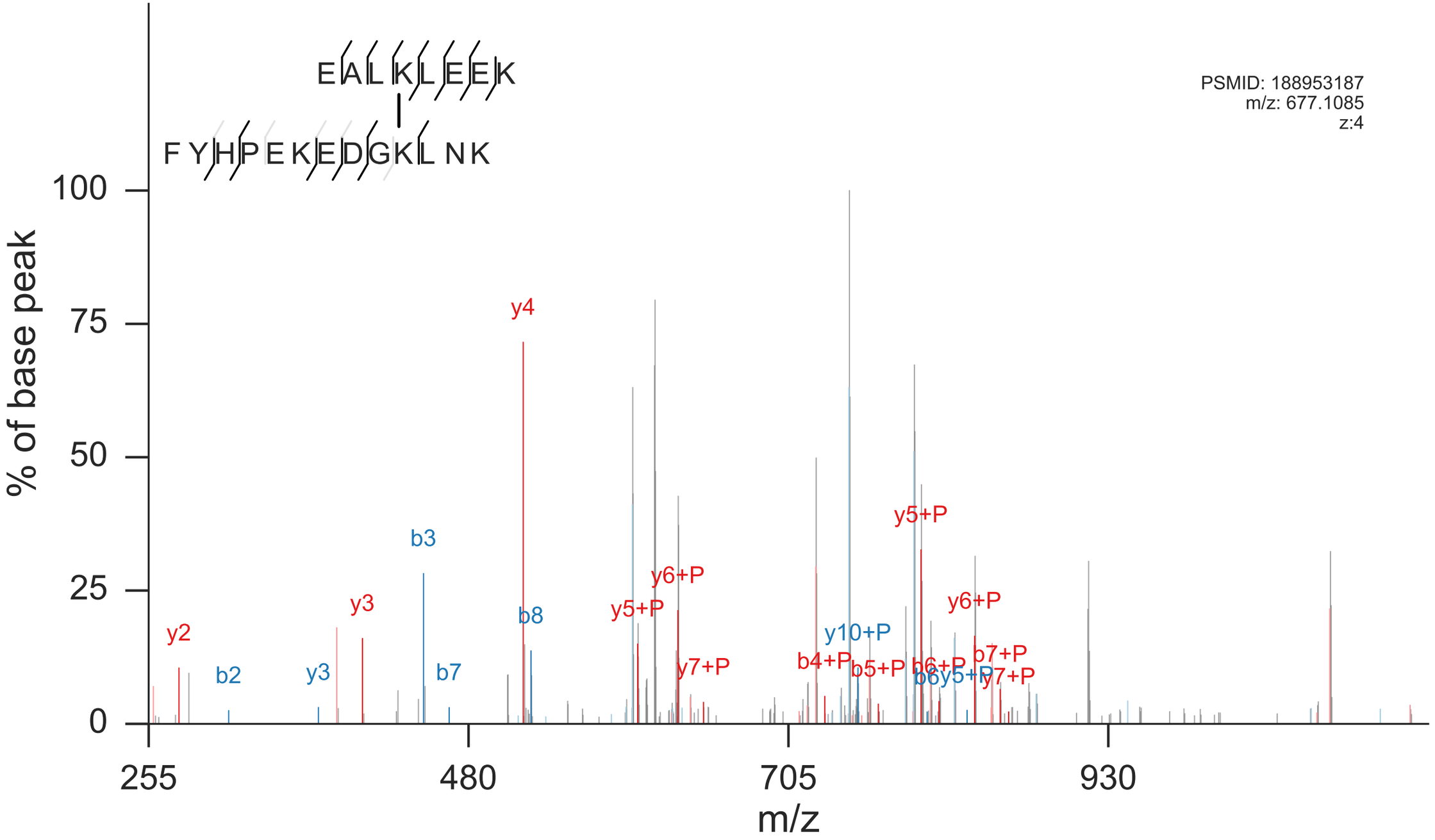

S S L S V P Y V I V P L K T G L Q E V E V K
H Y L M ox W G L S S D F W G E K P N L S Y I I G K
PSMID: 188952991
m/z: 1077.5715
z:5
% of base peak
100
75
50
25
0
90
502
914
1326
1738
m/z
y9
y2
y3
y1
b2
b4
y9
y4
b4
y6
b7
y9
b10
b11
y12+P
b6
y8
y5
b5
b2
y3
y2
b3
y3
b6
b3
b5
b8
y6
b7
b1
b2
b13
y7
b8
y7
y8
b9
b8
y17+P
y13+P
b12
b13
b14
b1
y3

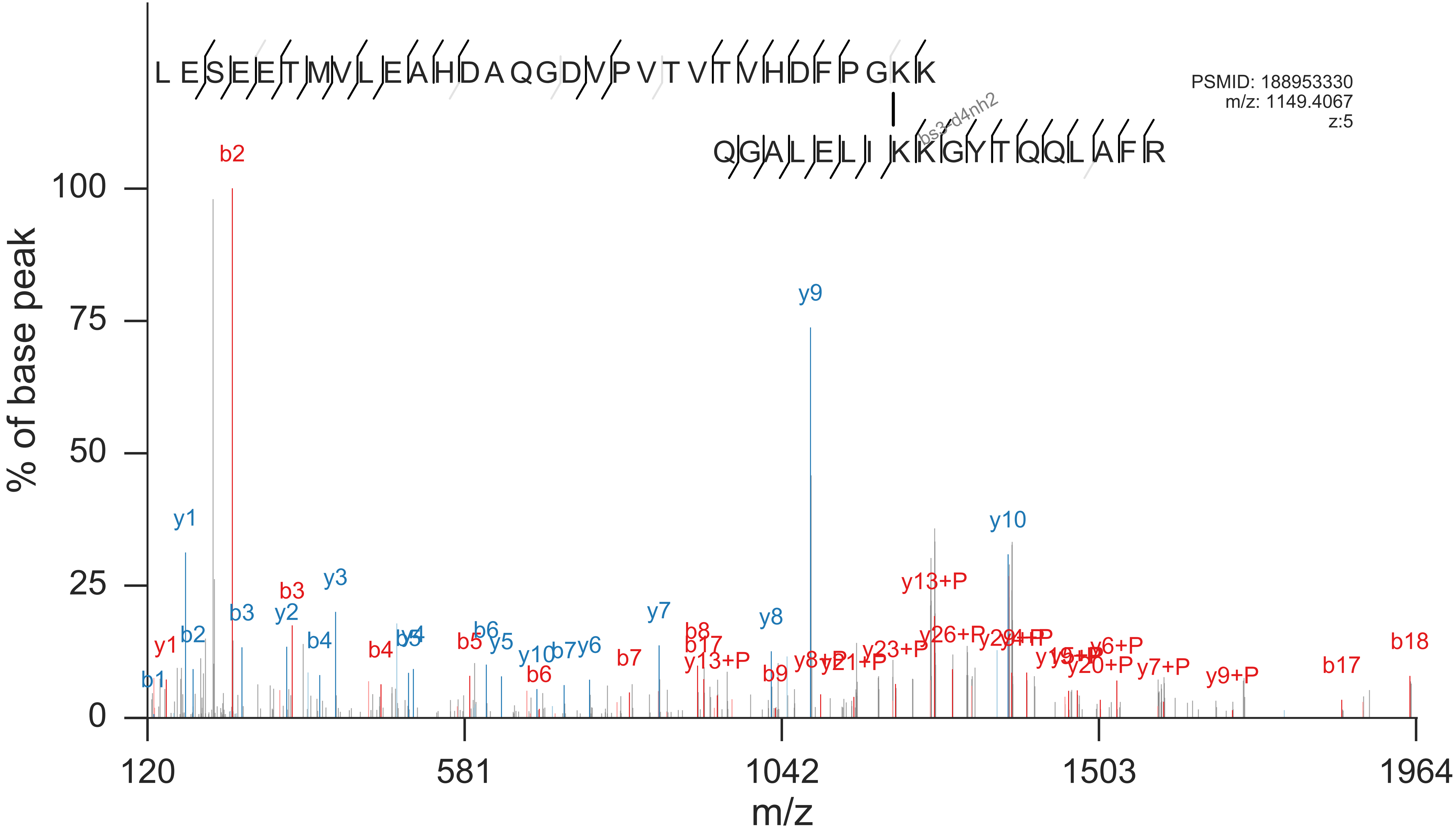

DSCmVGSLVVKSGQSEDR
QPVPGQQMoxTLKIEGDHGAR
PSMID: 188953011
m/z: 808.395
z:5
% of base peak
100
75
50
25
0
120
390
660
930
m/z
y7
y6
b3
y1
y4
y4
b3
y2
b2
b2
y3
y7
y6
y3
b4
y8
b5
b5
b9
y5
y6
y5
b6
b7
y7
b8
y8
b1
y2
y14+P



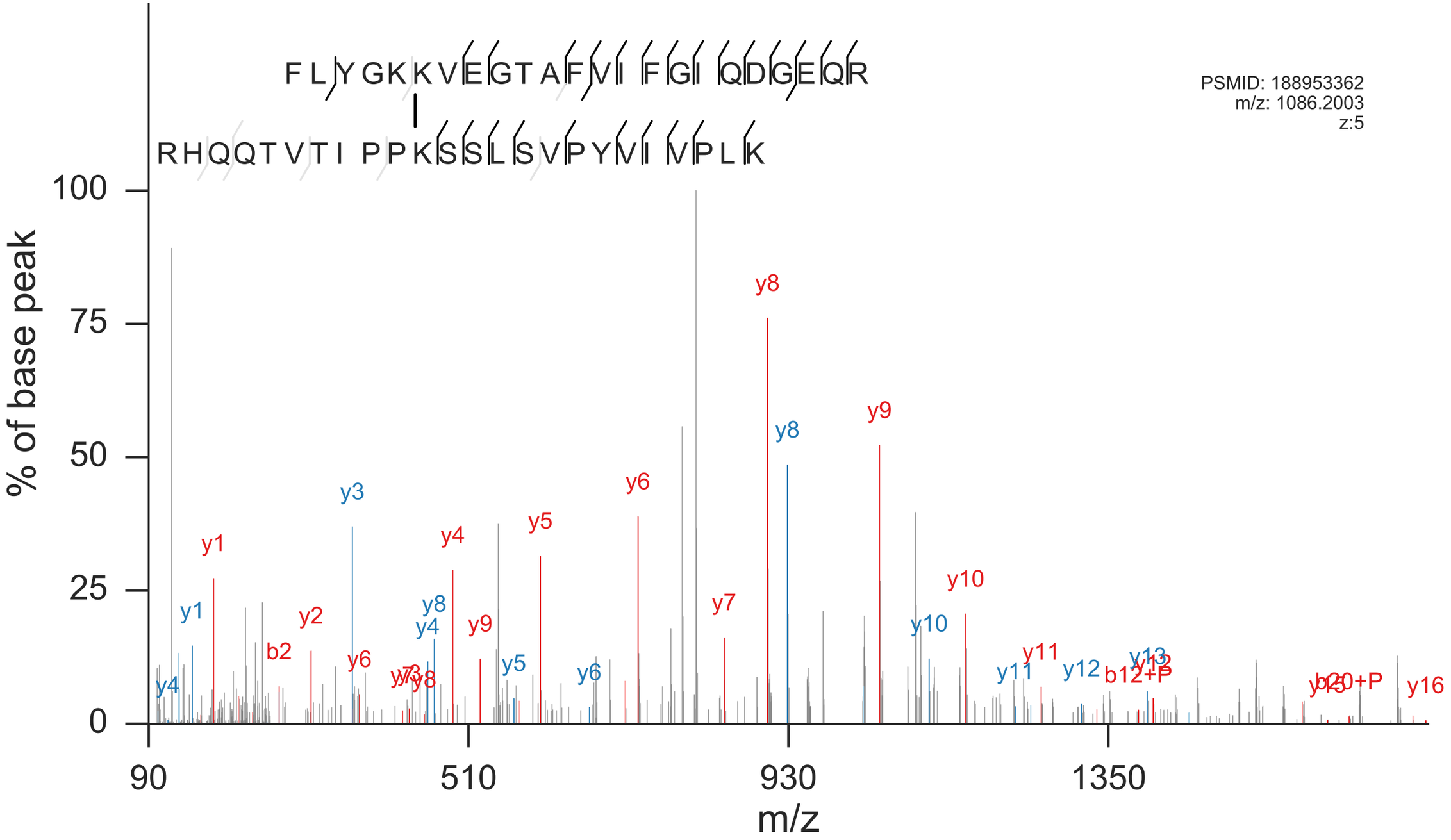
PSMID: 188953031
m/z: 1359.2606
z:4
F L Y G K K V E G T A F V I F G I Q D G E Q R
bs3-d4nh2
H Q Q T V T I P P K S S L S V P Y V I V P L K
% of base peak
m/z
100
75
50
25
0
120
630
1140
1650

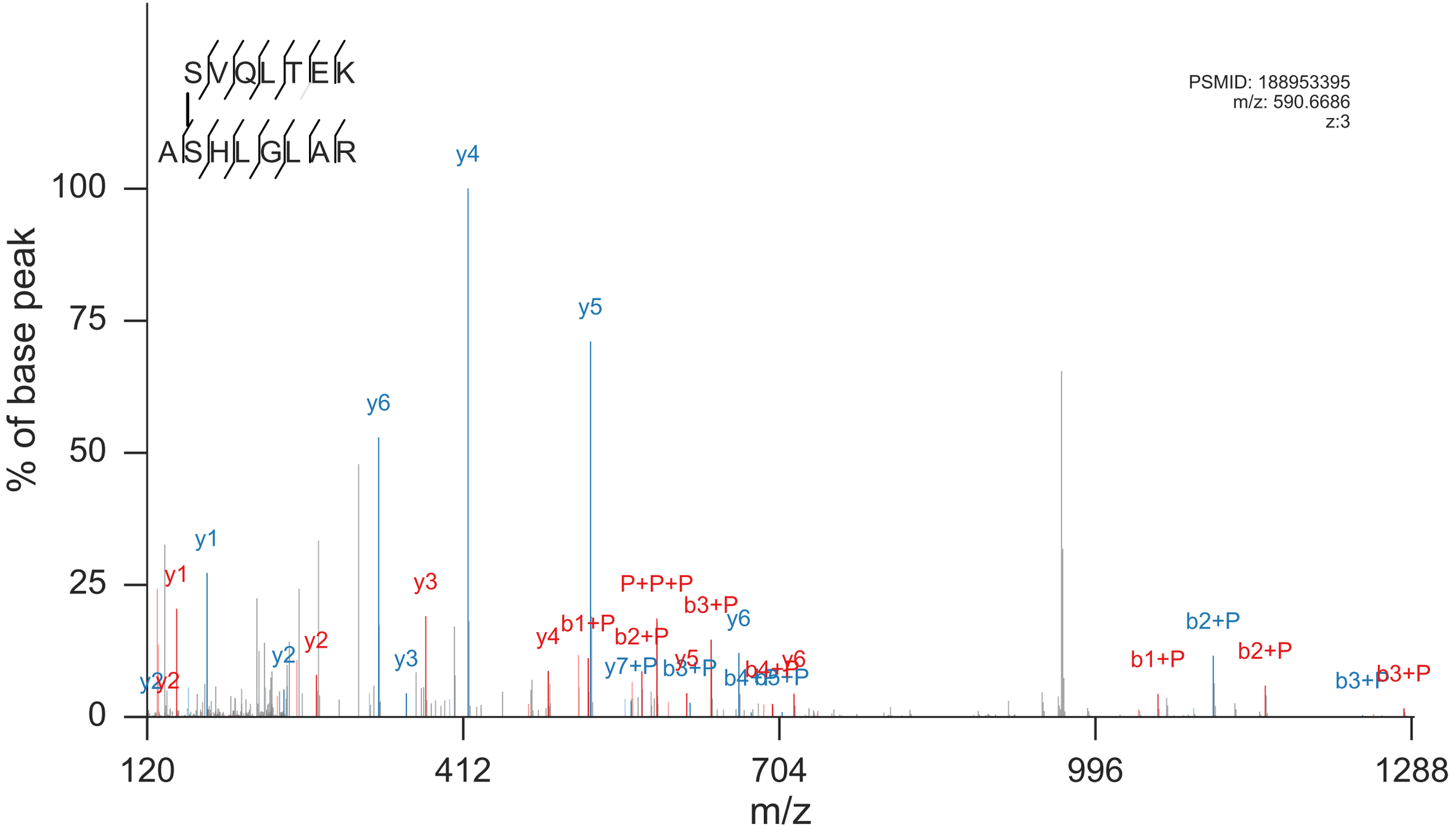

SVQLTEKR
QNQELKVR
bs3-d4nh2
PSMID: 188953145
m/z: 759.1066
z:3
% of base peak
100
75
50
25
0
105
450
795
1140
m/z
y1
y4
y5
y2
y6
y2
y3
b2
y3+P
y4+P
y5+P
y6+P
y7
y7+P
b1+P
b2+P
b3+P
b1
y2
b3
y3
y4
y7
b3
y5
y6
y7
b2+P

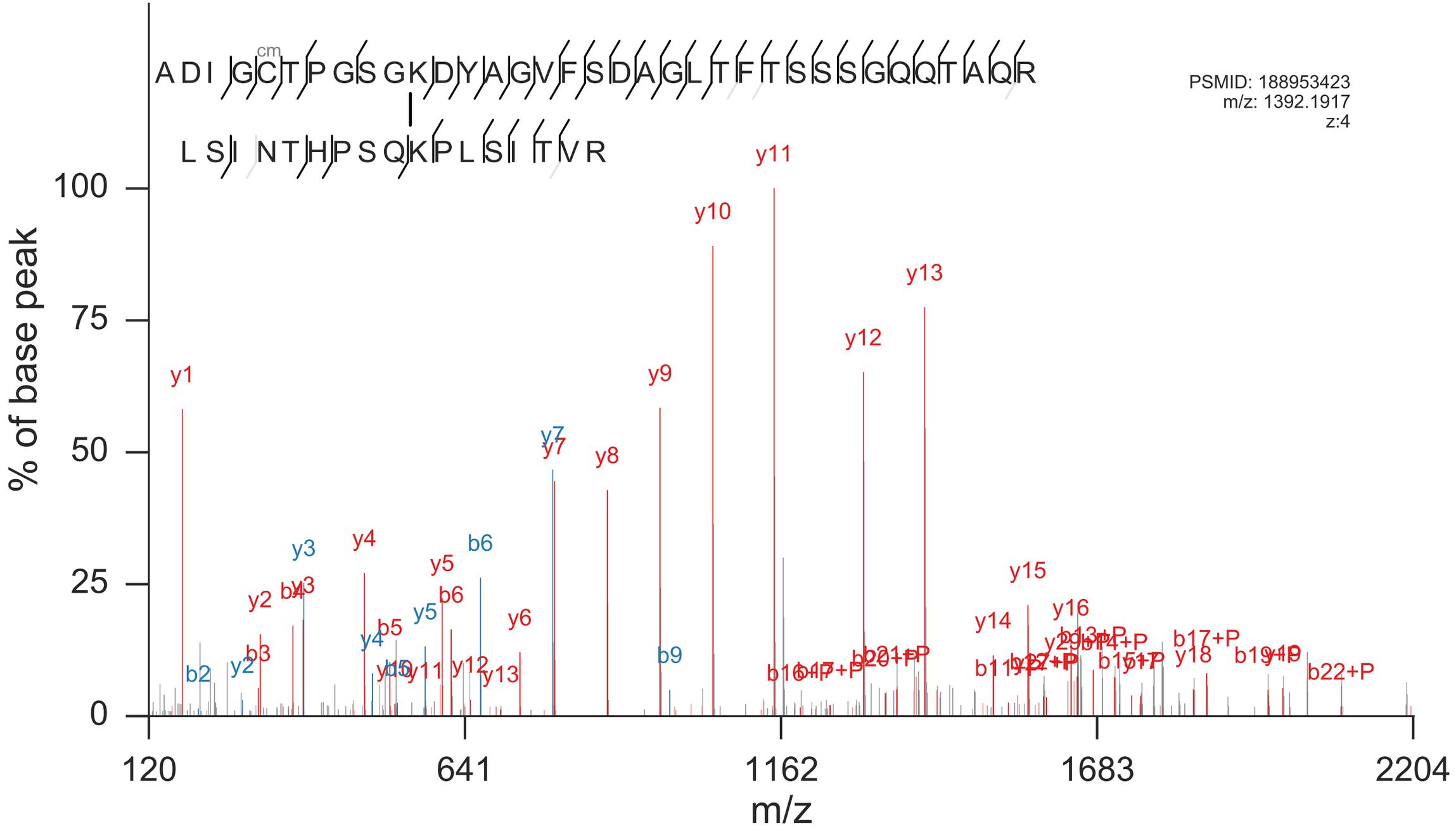

E A L K L E E K
F Y H P E K E D G K L N K
PSMID: 188953187
m/z: 677.1085
z:4
% of base peak
100
75
50
25
0
255
480
705
930
m/z
y4
b3
y6+P
y5+P
y3
b8
y2
b2
y3
b7
y7+P
y5+P
y10+P
y6+P
b4+P
b5+P
b6+P
b7+P
b6y5+P
y7+P

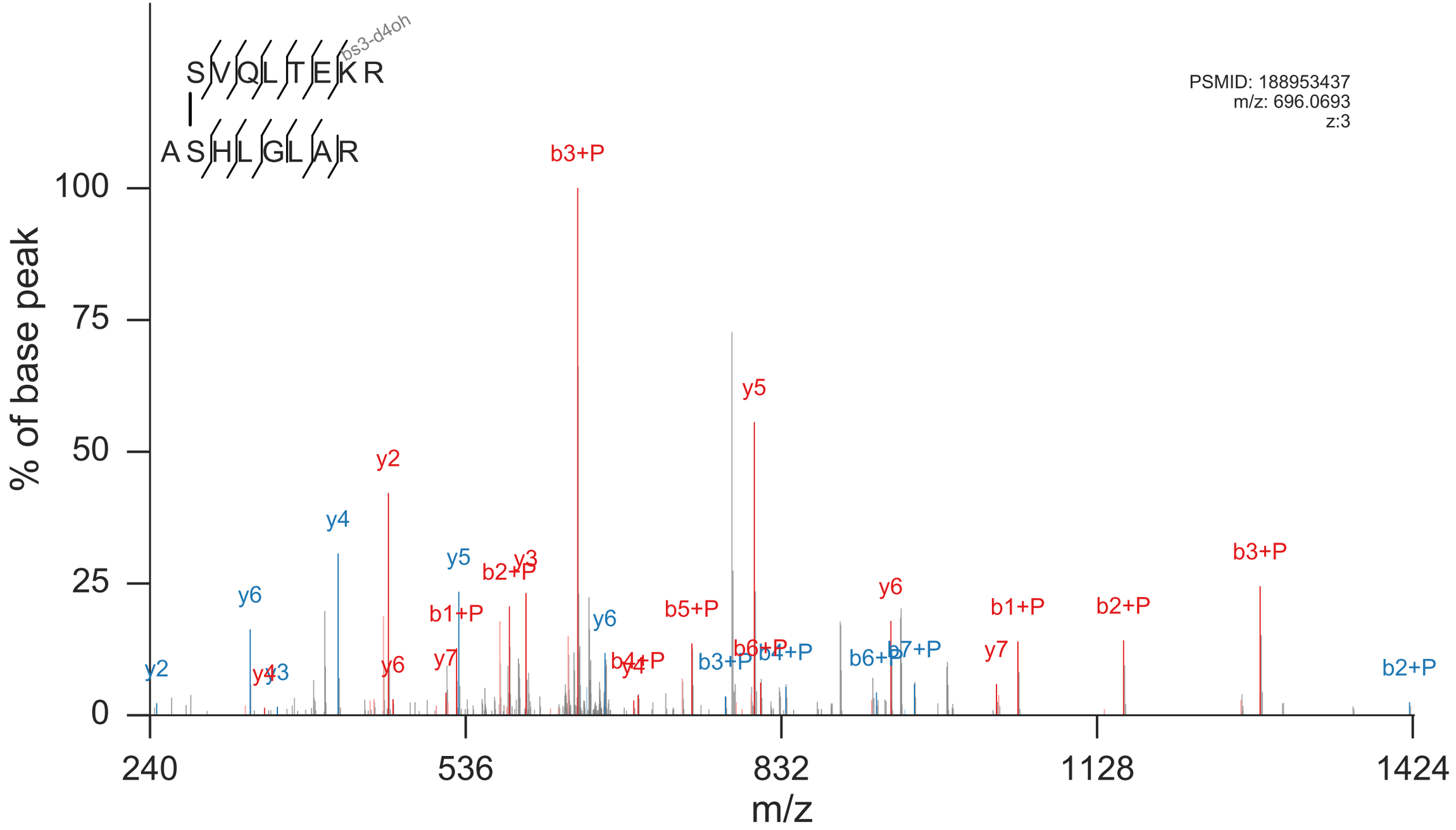


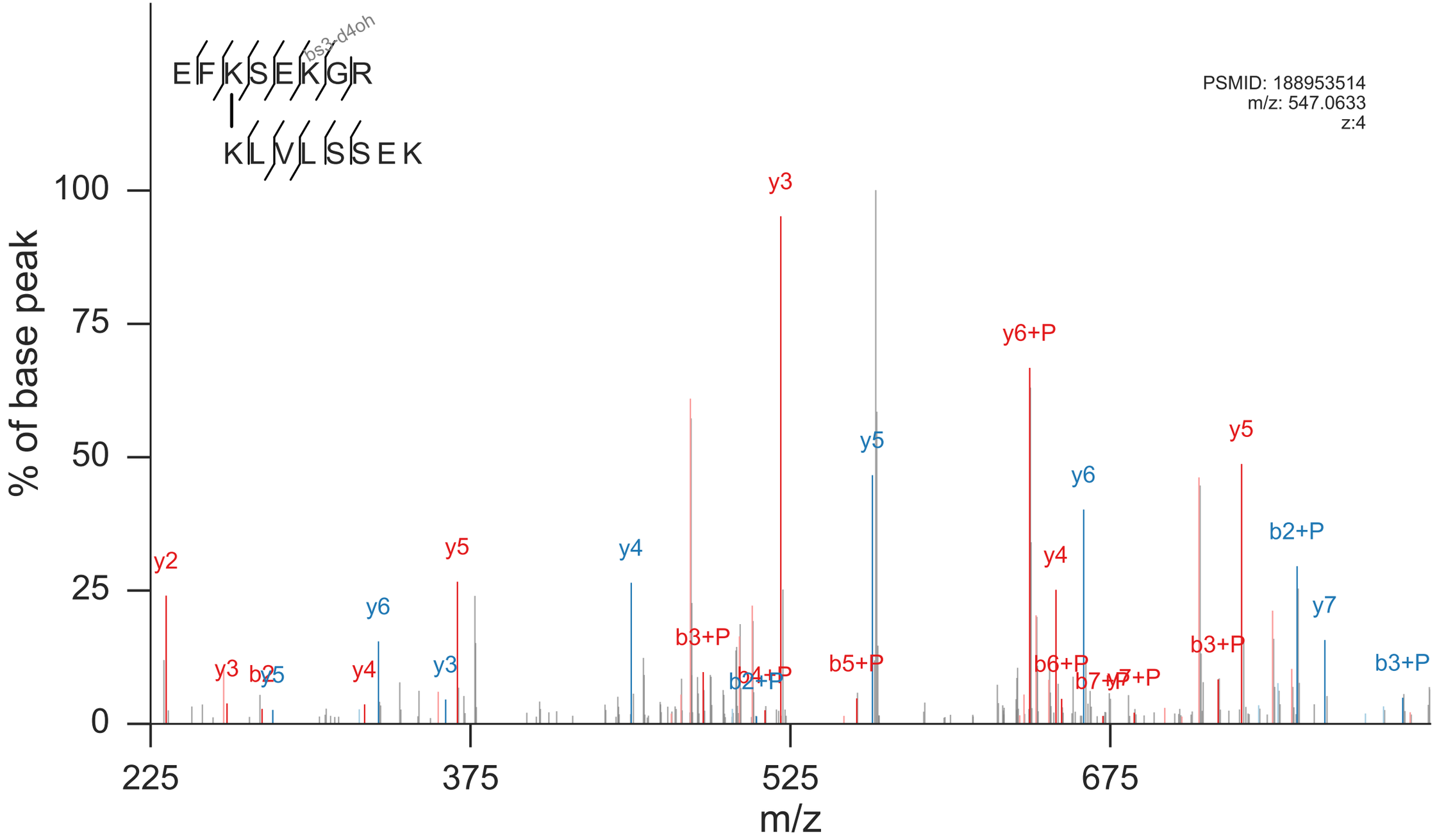
LESEETMVLEAHDAQGDVPVTVTVHDFPGKK
QGALELIKKGYTQQLAFR
bs3-d4nh2
PSMID: 188953330
m/z: 1149.4067
z:5
% of base peak
m/z

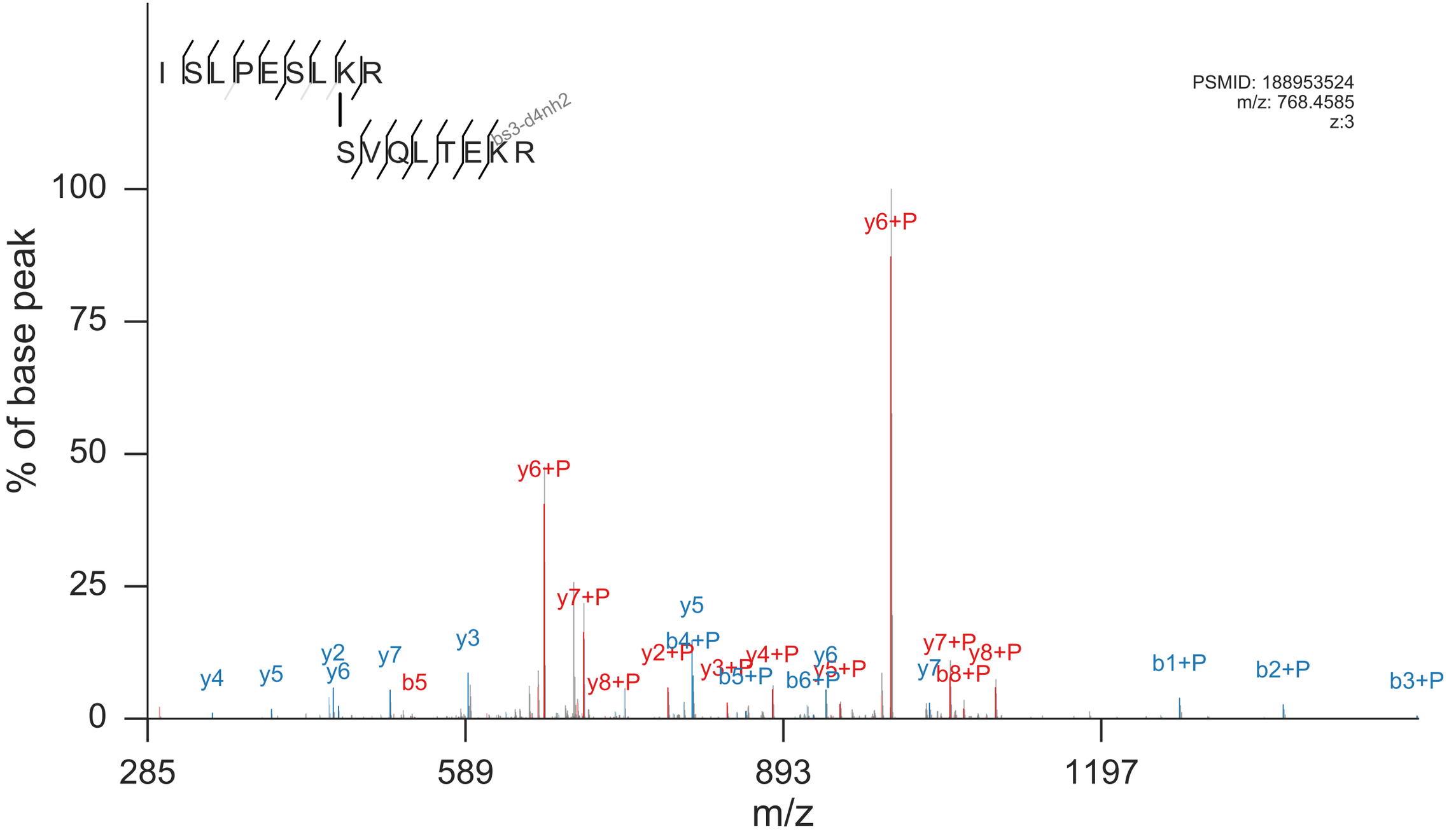

F L Y G K K V E G T A F V I F G I Q D G E Q R
R H Q Q T V T I P P K S S L S V P Y V I V P L K
PSMID: 188953362
m/z: 1086.2003
z:5
% of base peak
100
75
50
25
0
90
510
930
1350
m/z
y8
y9
y8
y6
y3
y4
y5
y1
y10
y7
y10
y11
y11
y12
y13
b12+P
y16
y1
y2
b2
y6
y8
y4
y9
y5
y6

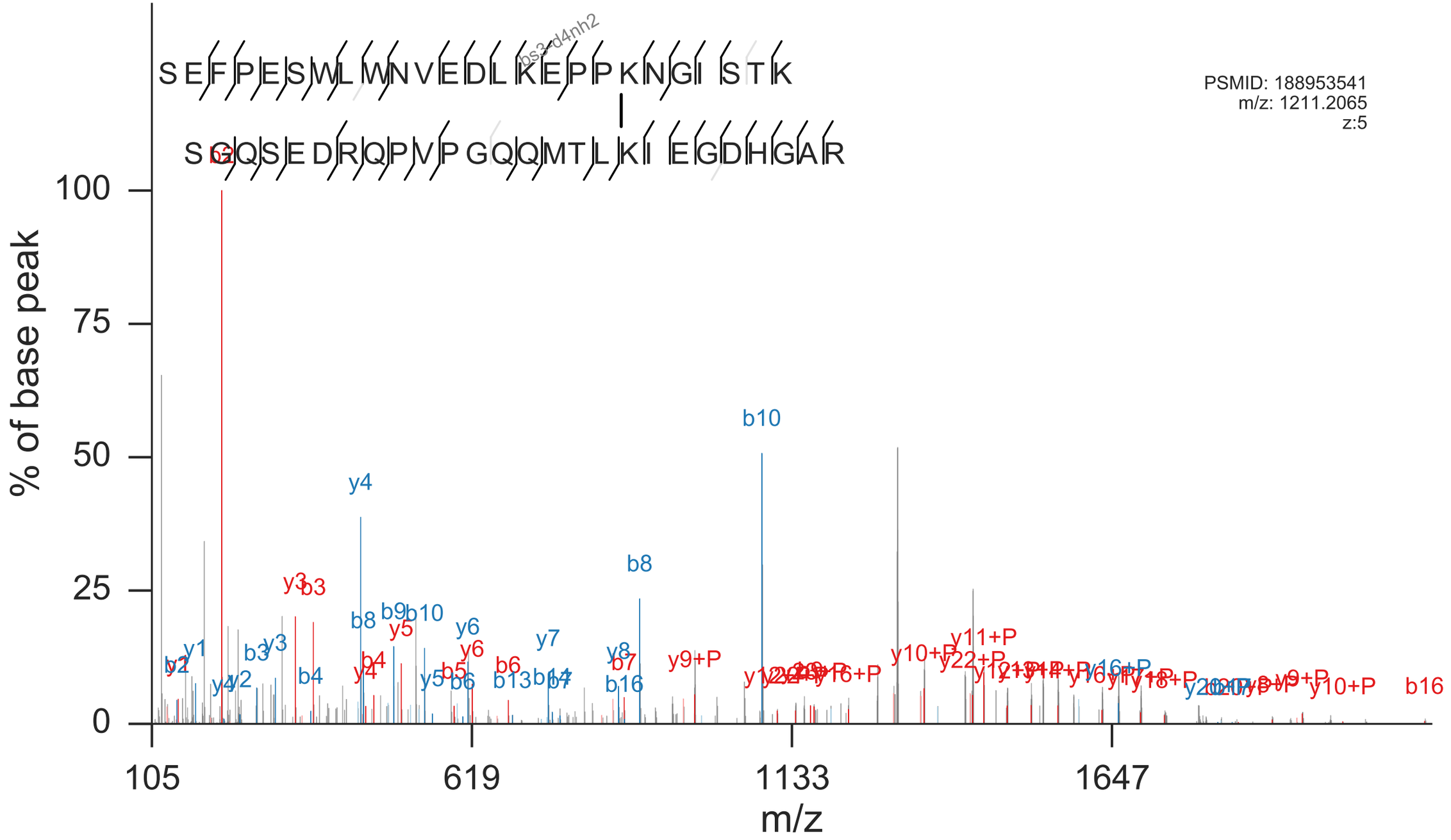

SVQLTEK
ASHLGLAR
PSMID: 188953395
m/z: 590.6686
z:3
% of base peak
100
75
50
25
0
120
412
704
996
1288
m/z
y4
y5
y6
y1
y1
y3
P+P+P
b3+P
y6
b2+P
y4
b1+P
b2+P
y2
y2
y3
y7+P
b3+P
y5
b4+y6
b4+b5+P
y3/2
b2+P
b1+P
b2+P
b3+P
b3+P

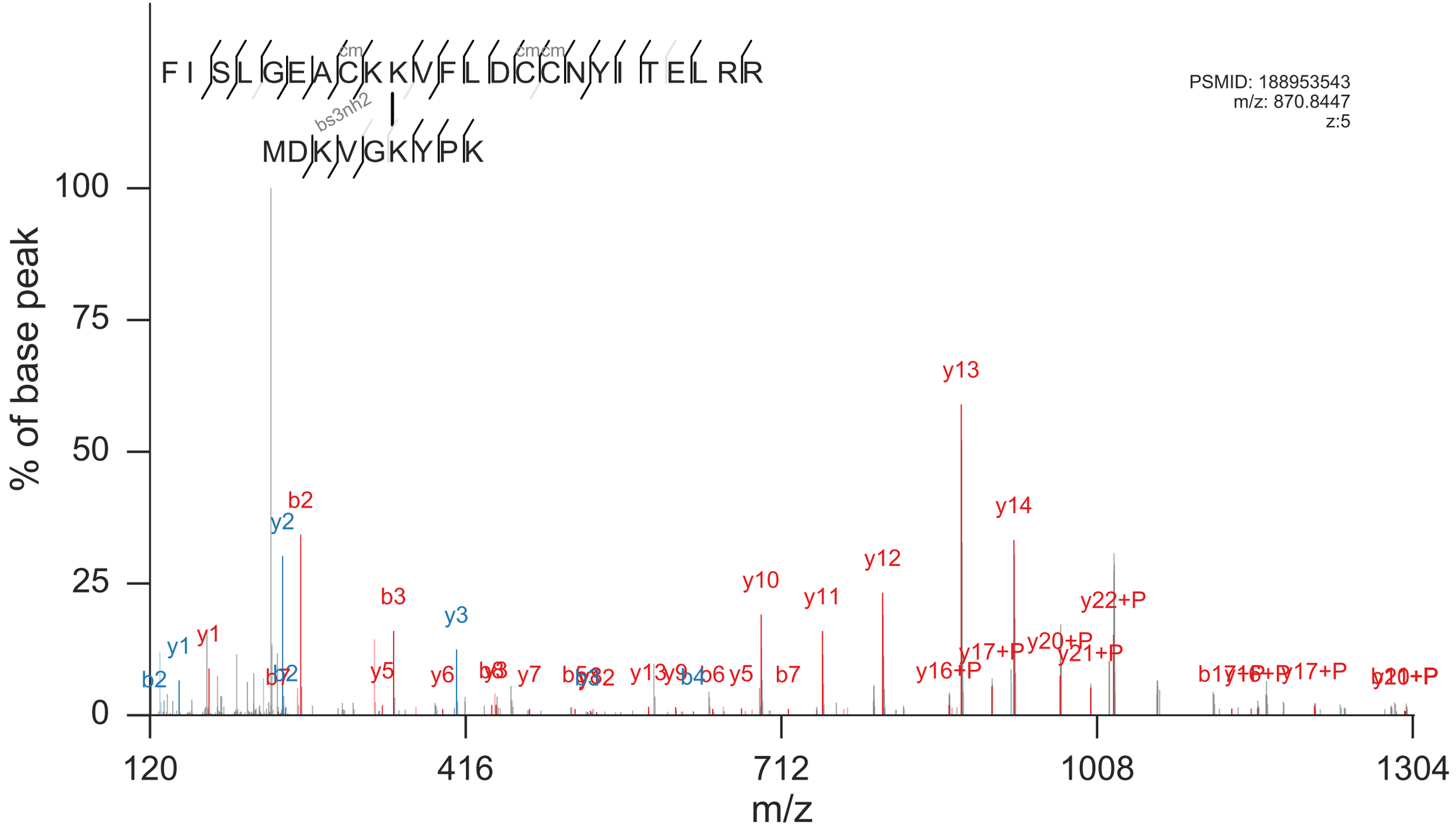

A D I G C T P G S G K D Y A G V F S D A G L T F T S S S G Q Q T A Q R
cm
L S I N T H P S Q K P L S I T V R
PSMID: 188953423
m/z: 1392.1917
z:4
% of base peak
100
75
50
25
0
120
641
1162
1683
2204
m/z
y1
y2
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
y14
y15
y16
y18
b2
b3
b4
b5
b6
b9
b17+P
b22+P

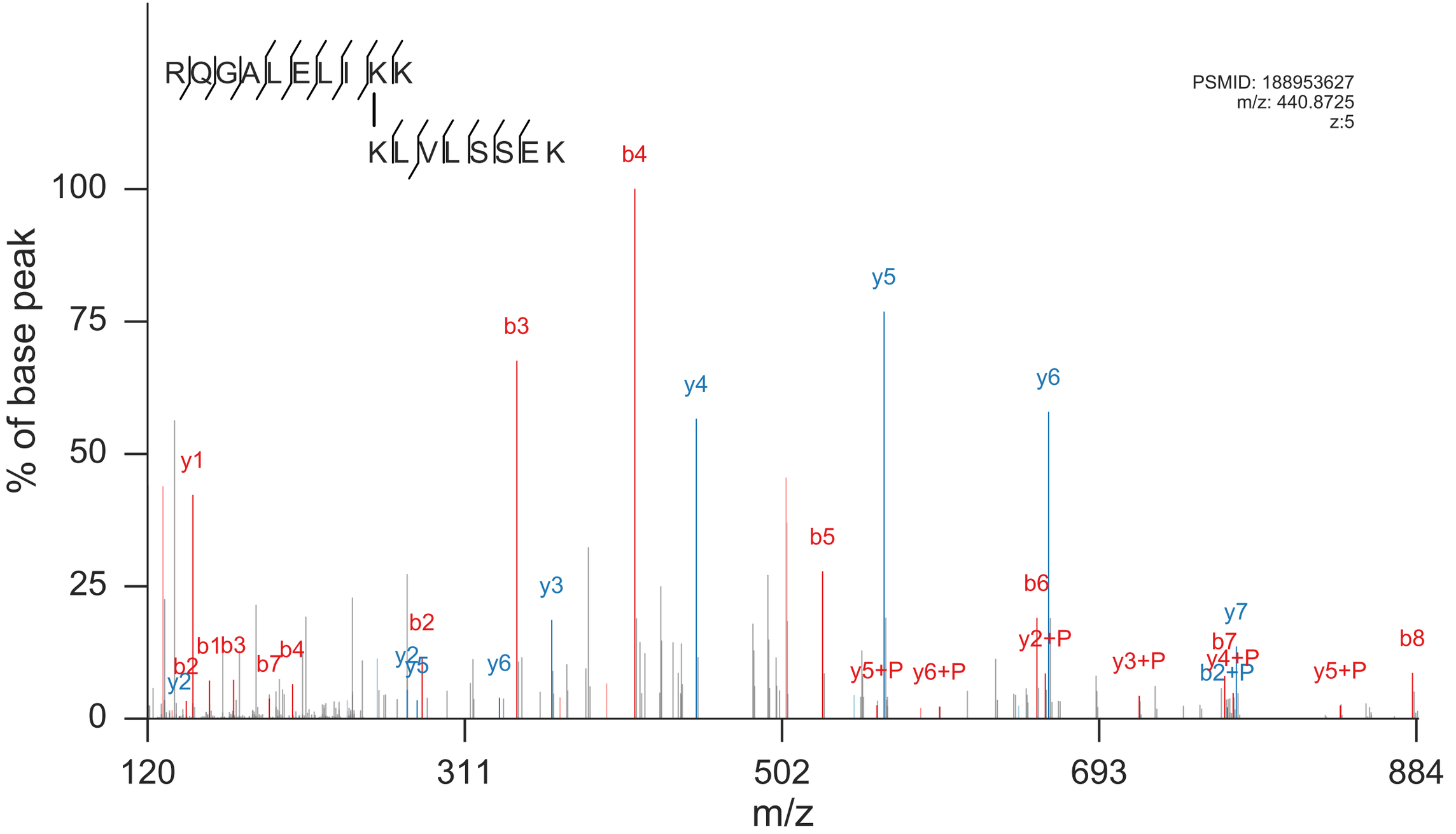

SVQLTEKR
ASHLGLAR
bs3-d4oh
PSMID: 188953437
m/z: 696.0693
z:3
% of base peak
100
75
50
25
0
240
536
832
1128
1424
m/z
b3+P
y5
y2
y4
y6
y5
b2+P
y3
b1+P
y6
b5+P
y6
b1+P
b2+P
b3+P
y2
y4
y3
y6
y7
b4+P
b3+P
b6+P
y7
b2+P

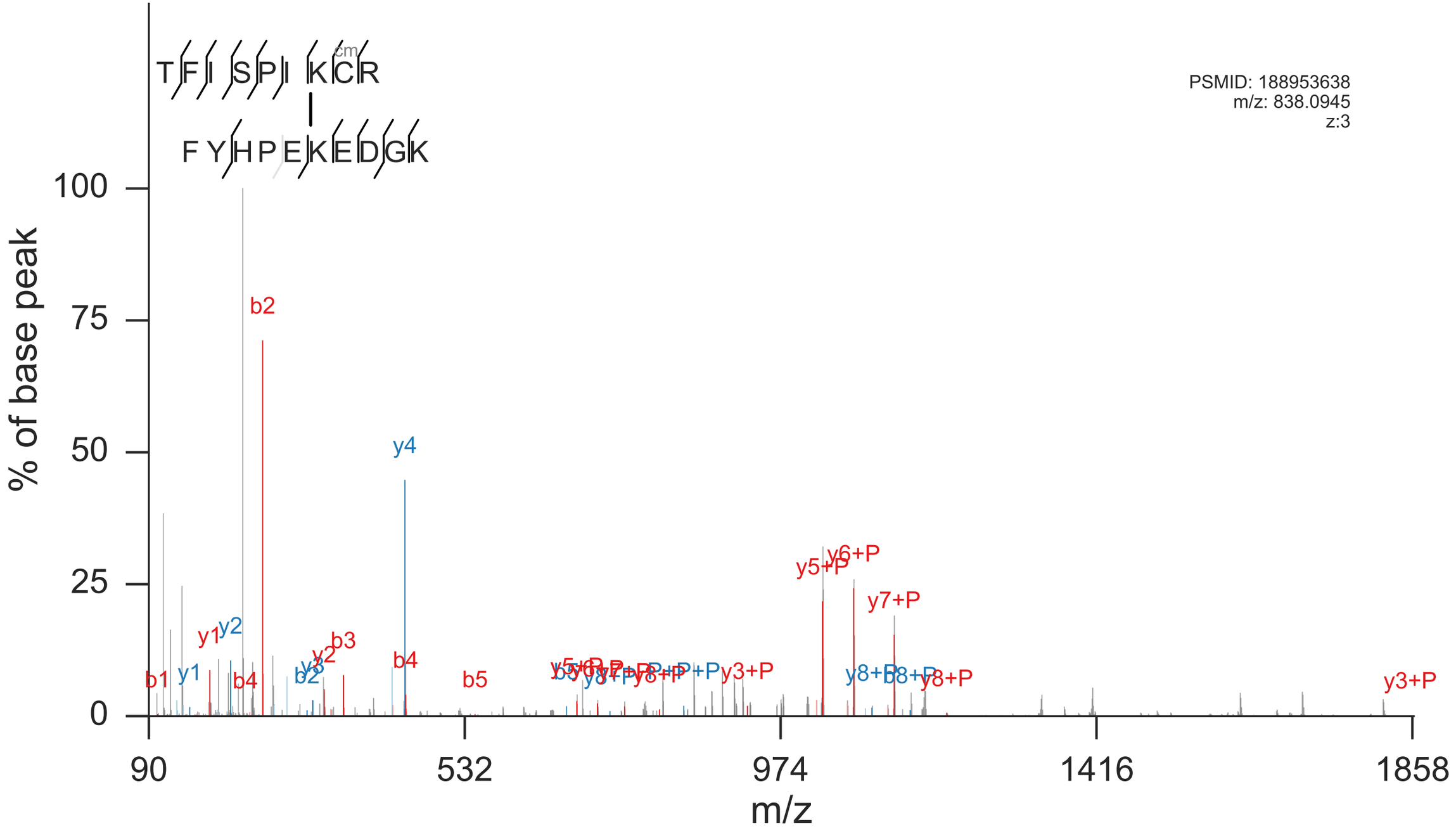

EFKSEKGR
bs3-d4oh
KLVLSSEK
PSMID: 188953514
m/z: 547.0633
z:4
% of base peak
100
75
50
25
0
225
375
525
675
m/z
y3
y6+P
y5
y6
y5
y2
y4
y5
y4
b2+P
y6
y7
b3+P
b3+P
b5+P
b6+P
y3
b2
y4
y3
b4+P
b2+P
b3+P

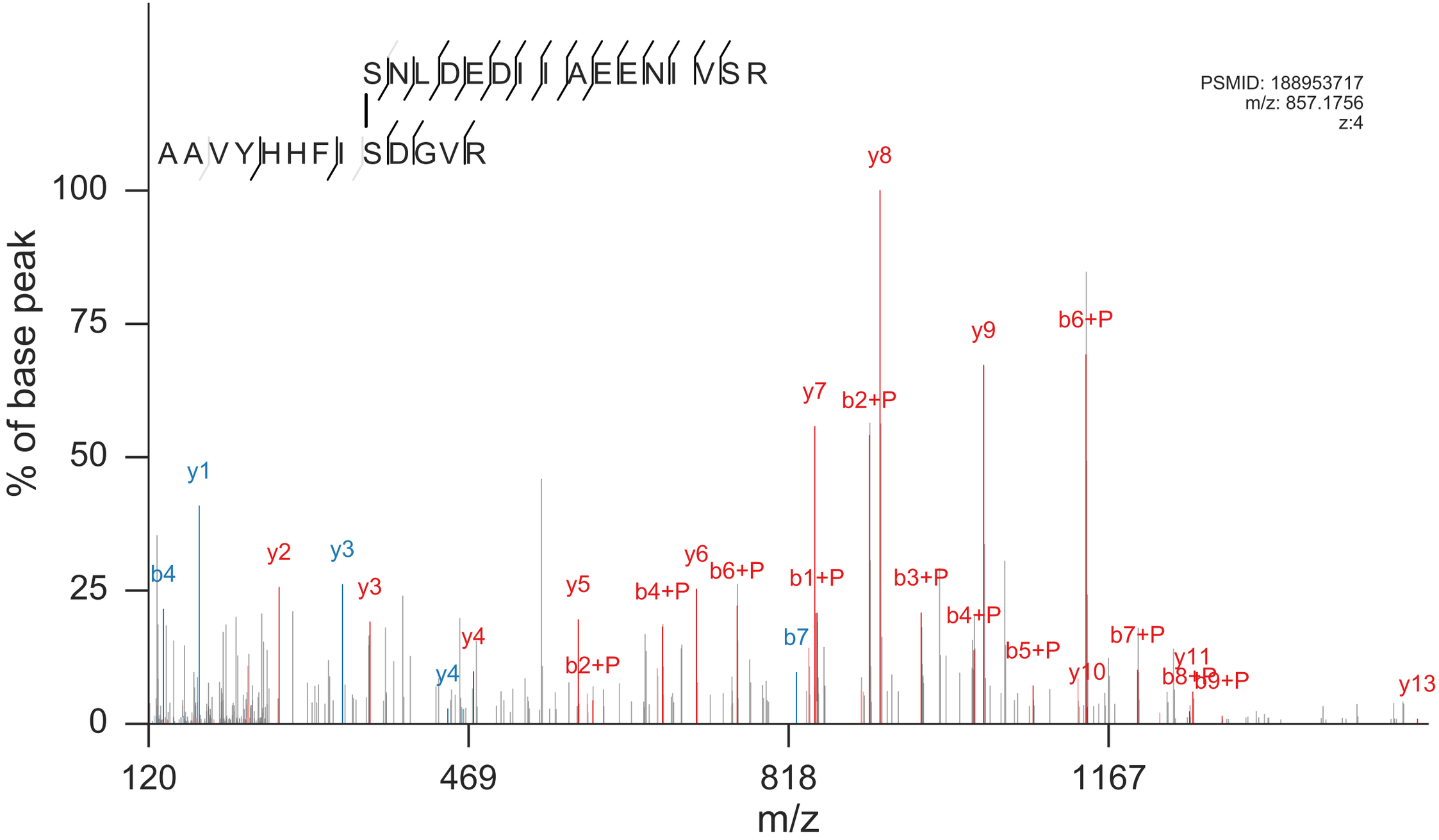

I SLPESLKR
SVQLTEKR
bs3-d4nh2
PSMID: 188953524
m/z: 768.4585
z:3
% of base peak
100
75
50
25
0
285
589
893
1197
m/z
y6+P
y6+P
y7+P
y5
y3
y2
y7
y4
y5
y6
b5
y8+P
b4+P
y2+P
y3+P
y4+P
b5+P
y6
b6+P
y5+P
y7+P
y7
y8+P
b8+P
b1+P
b2+P
b3+P

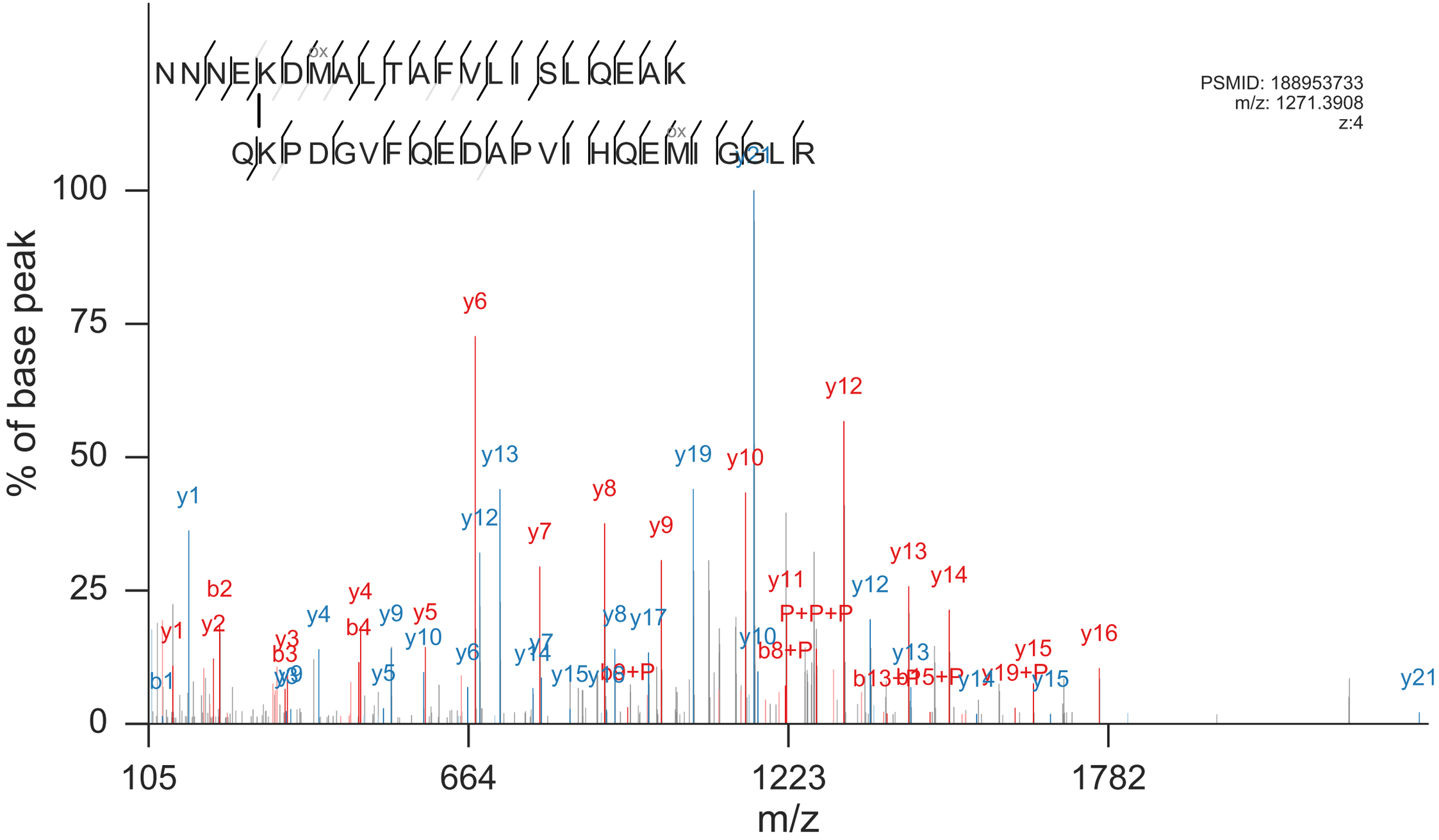

SEFPESWLWNVEDLKEPPKNGISTK
SGQQSEDRQPVPGQQMTLKIEGDHGAR
bs3-d4nh2
PSMID: 188953541
m/z: 1211.2065
z:5
% of base peak
100
75
50
25
0
105
619
1133
1647
m/z
b10
y4
b8
y3
b3
b9
y5
y6
y7
y8
b7
y9+P
y11+P
y10+P
y22+P
b16

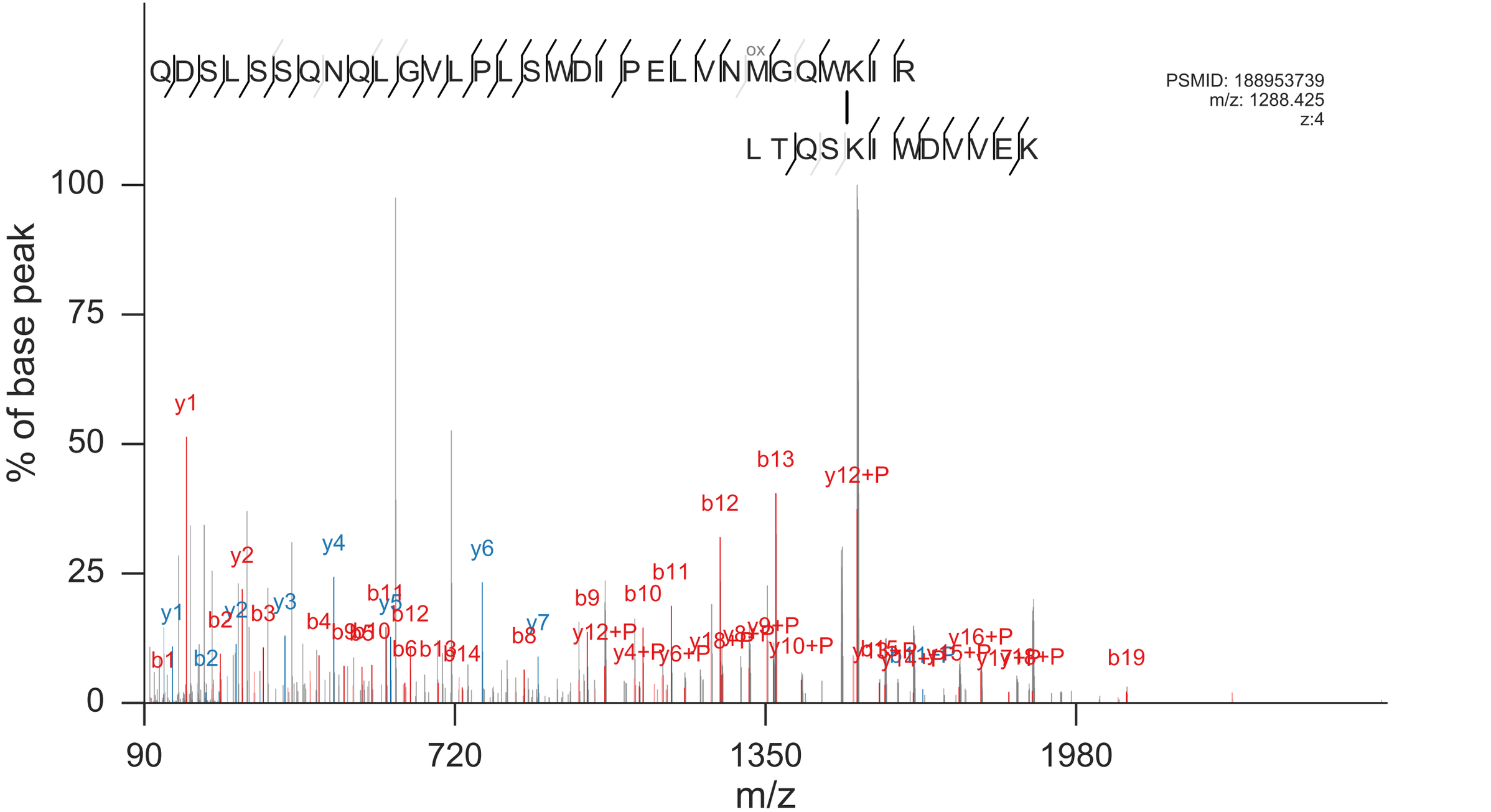

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
cm,cm
bs3nh2
M D K V G K Y P K
PSMID: 188953543
m/z: 870.8447
z:5
% of base peak
100
75
50
25
0
120
416
712
1008
1304
m/z
b2
y2
y1
b3
y3
y5
y6
y7
y10
y11
y12
y13
y14
y22+P
y20+P
y21+P
y16+P
y17+P

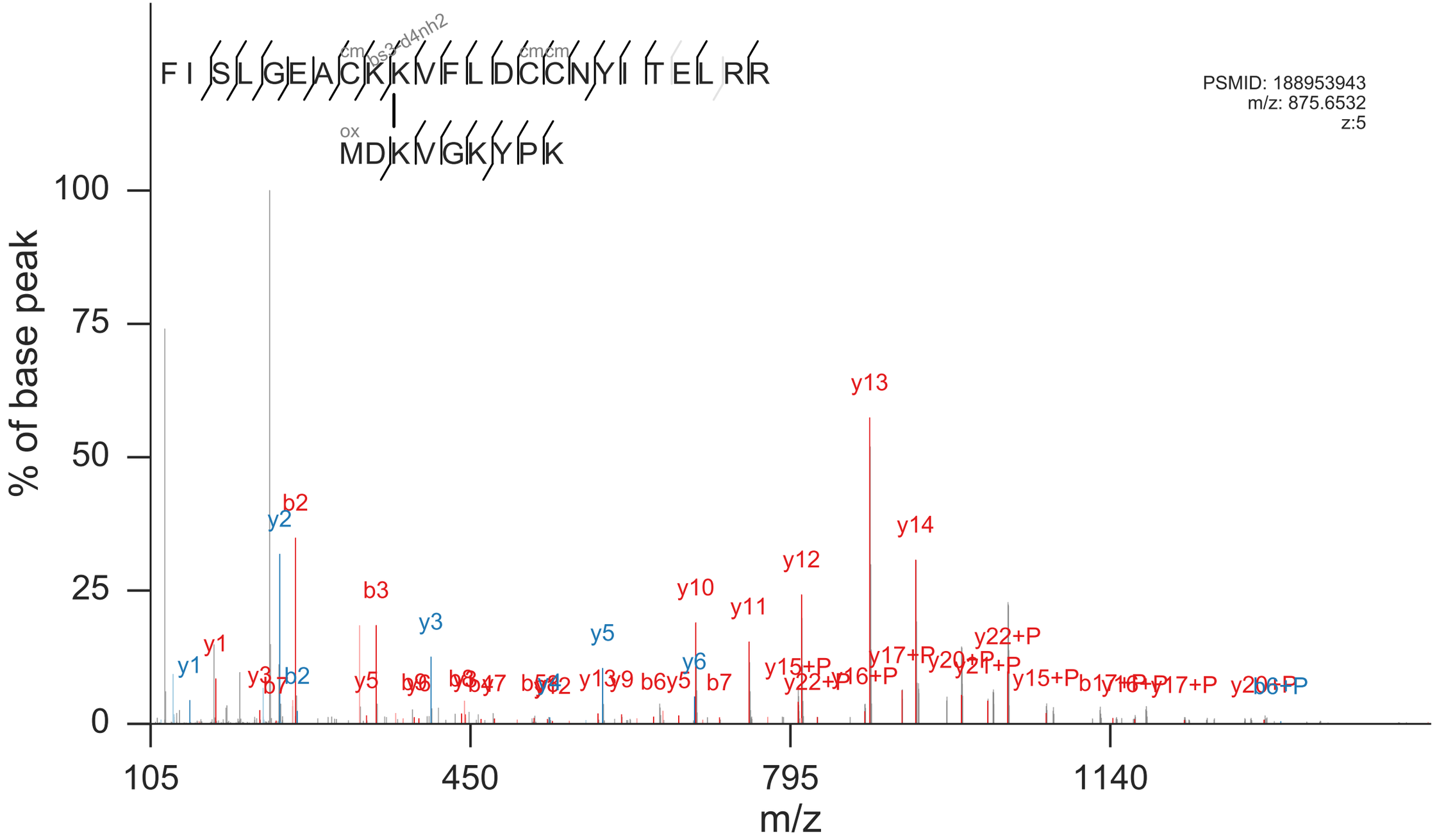

RQGALELIKK
KLVLSSEK
PSMID: 188953627
m/z: 440.8725
z:5
% of base peak
100
75
50
25
0
120
311
502
693
884
m/z
b4
y5
b3
y4
y6
y1
b5
y3
b6
b2
y7
y2+P
b8
b1b3
b7
y3+P
y4+P
b4
y2
y5
y6
y5+P
y6+P
b2+P
y5+P
b2

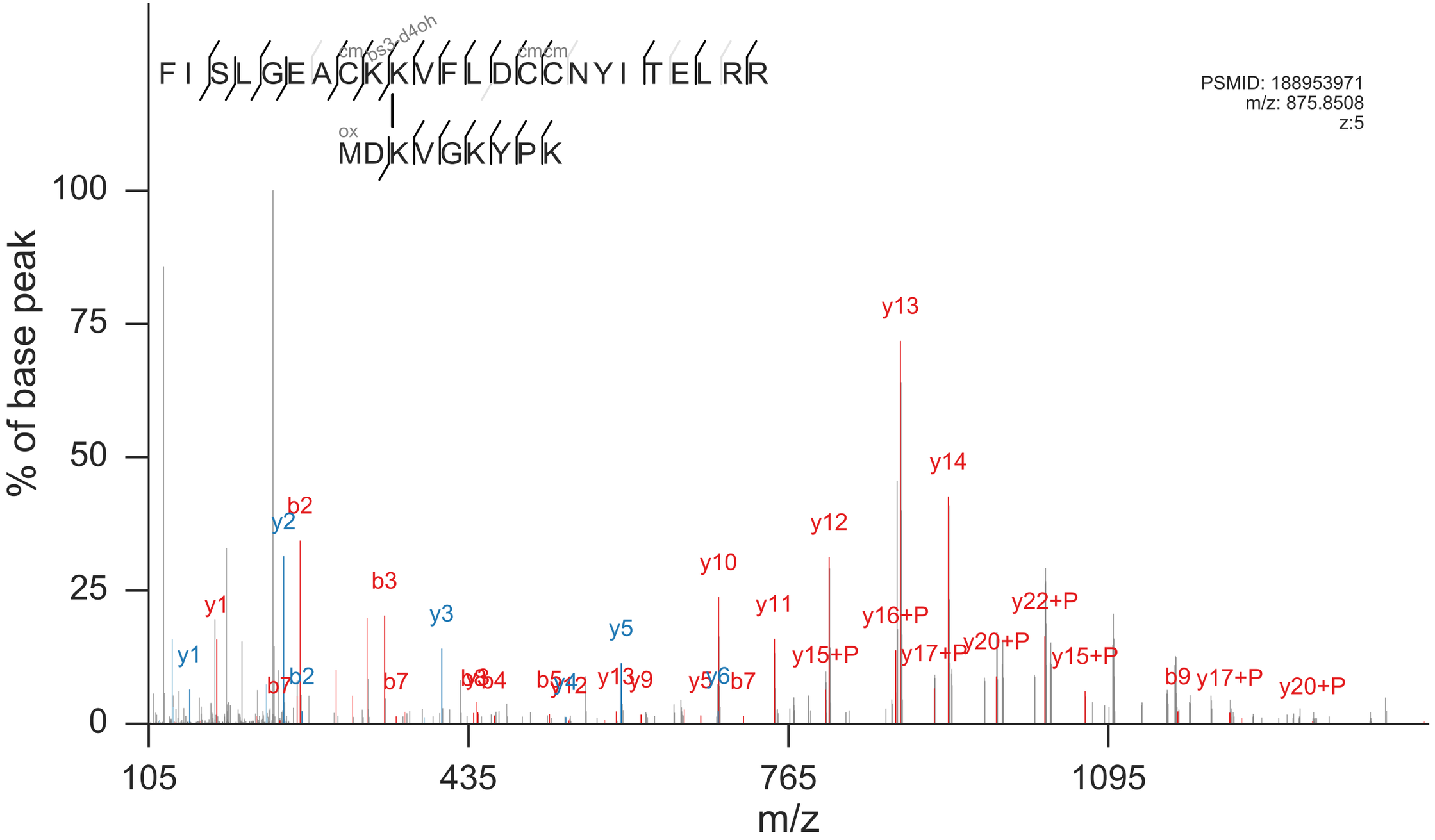

TFISPIKCR
cm
FYHPEKEDGK
PSMID: 188953638
m/z: 838.0945
z:3
% of base peak
100
75
50
25
0
90
532
974
1416
1858
m/z
b2
y4
y1
y2
b3
b1
b4
b5
y6+P
y5+P
y7+P
y3+P
y8+P

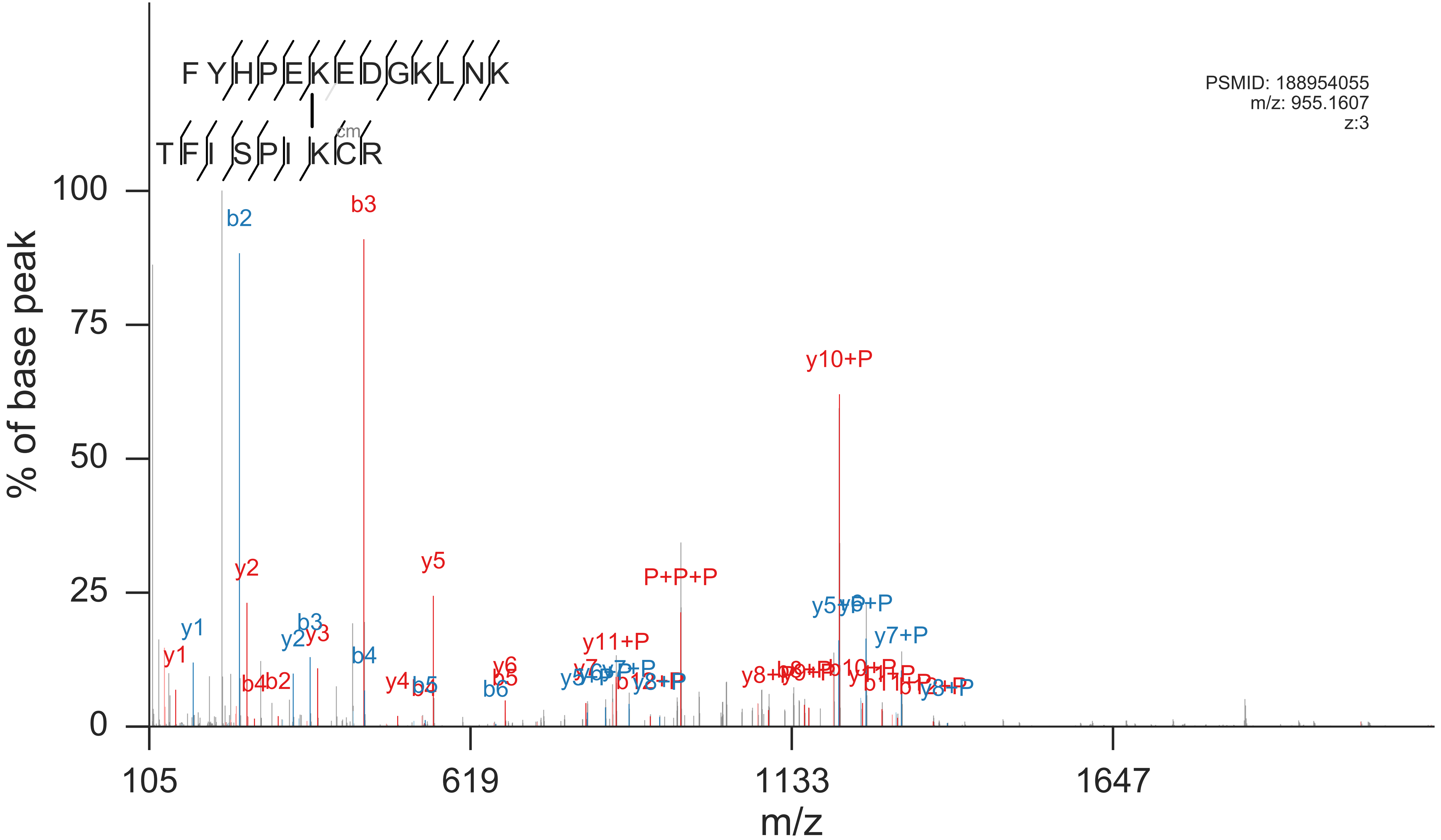

SNLDEDIIAEENIVSR
AAVYHHFISDGVR
PSMID: 188953717
m/z: 857.1756
z:4
% of base peak
100
75
50
25
0
120
469
818
1167
m/z
y8
y9
b6+P
y7
b2+P
y1
y2
y3
b4
y3
y5
y6
b4+P
b6+P
b1+P
b3+P
b4+P
y4
y4
b7
b2+P
b5+P
b7+P
y10
y11
b8+P
b9+P
y13


NNNEKDMALTAFVLISLQEAK
ox
QKPDGVFQEDAPVIHQEMIGGLR
ox
PSMID: 188953733
m/z: 1271.3908
z:4
% of base peak
100
75
50
25
0
105
664
1223
1782
m/z
y6
y12
y13
y19
y10
y1
y8
y9
y7
y11
y14
y16
y15
y21
b2
y2
y3
b3
y4
b4
y5
b1
P+P+P
b8+P
b13+P
b5+P
y19+P

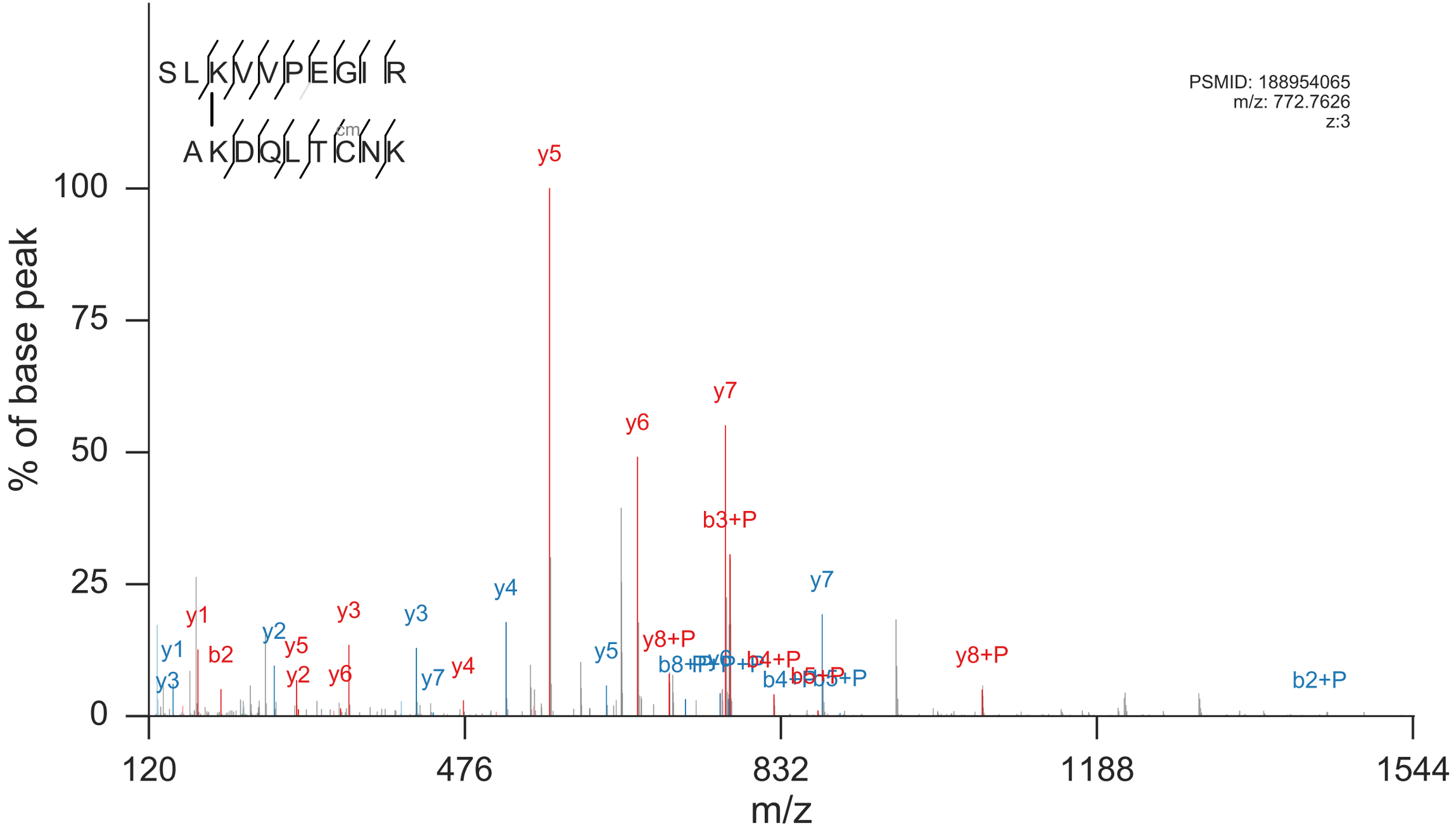

QDSLSSSQNQLGVLPLSWDIPELVNMoxGQWKIR
LTQSKIWDVVEK
PSMID: 188953739
m/z: 1288.425
z:4
% of base peak
100
75
50
25
0
90
720
1350
1980
m/z
y1
y2
y4
y6
b13
y12+P
b12
b11
b9
b10
y7
b8
y10+P
y16+P
b19

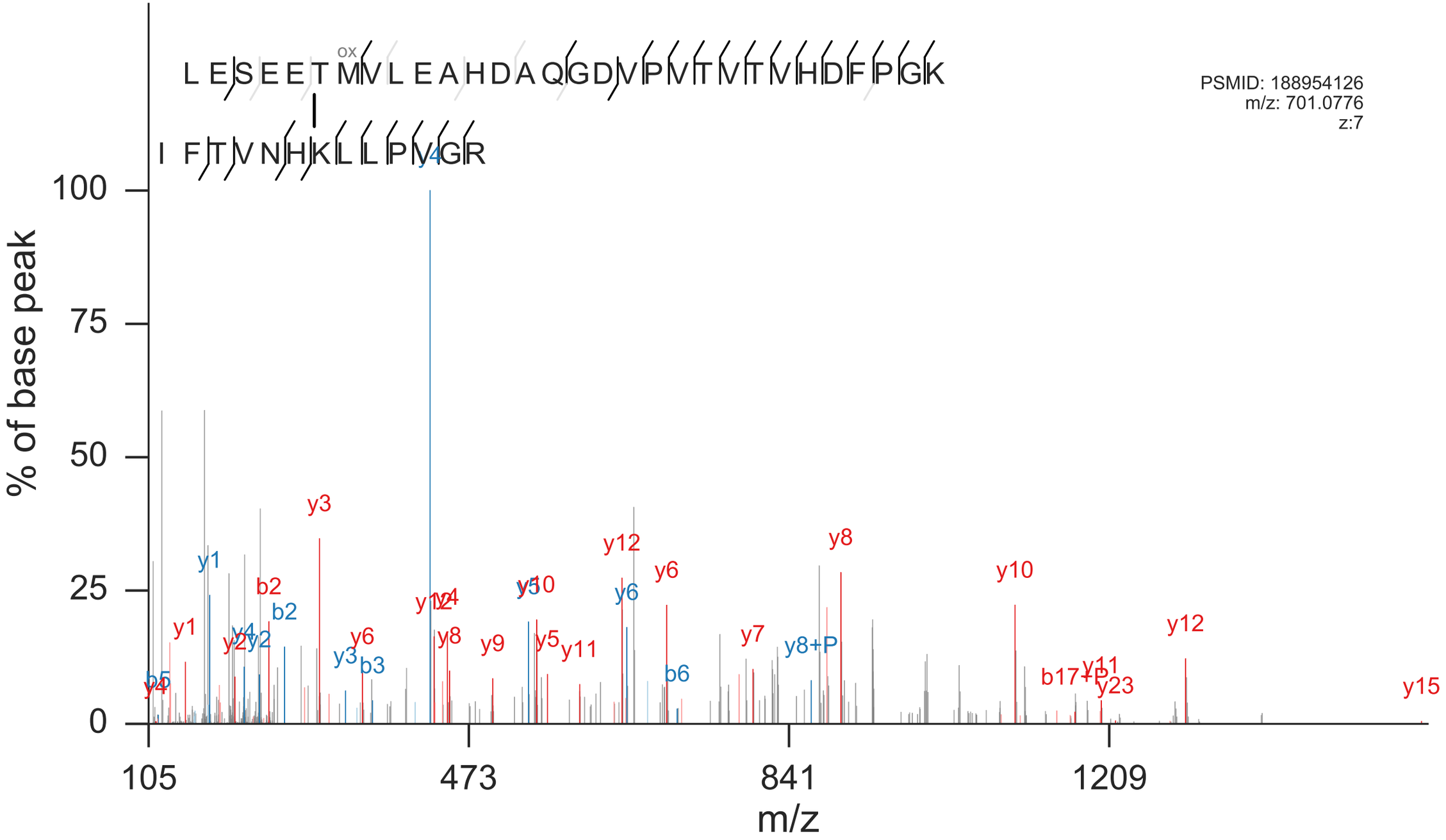

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
bs3-d4nh2
cm cm
ox
M D K V G K Y P K
PSMID: 188953943
m/z: 875.6532
z:5
% of base peak
100
75
50
25
0
105
450
795
1140
m/z
y13
y14
y12
b2
y2
y10
y11
b3
y3
y5
y1
y6
y22+P
y17+P
y20+P
y21+P
y15+P
y16+P
b6y5
b7

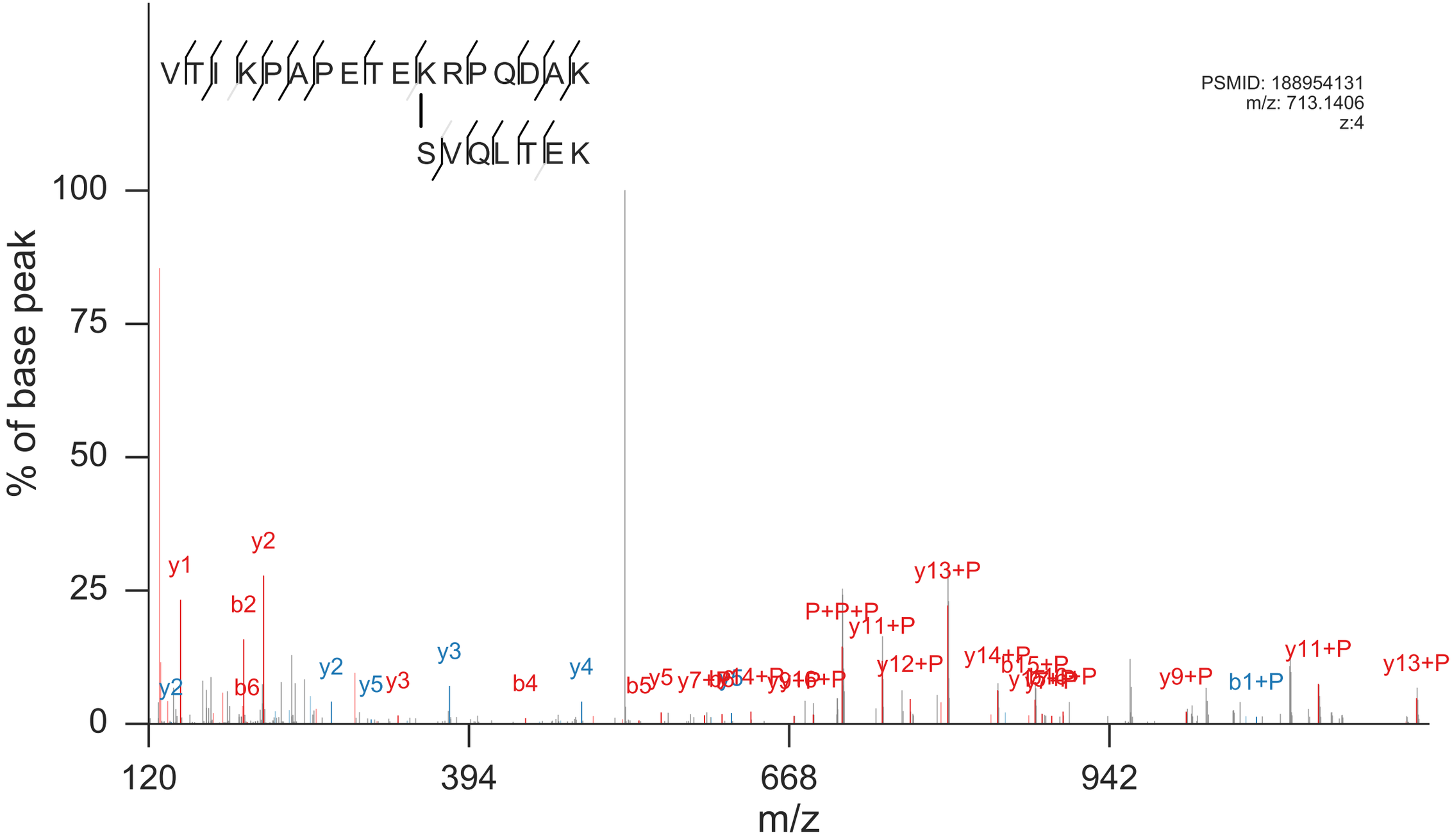

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
cm
cm
ox
M D K V G K Y P K
PSMID: 188953971
m/z: 875.8508
z:5
% of base peak
100
75
50
25
0
105
435
765
1095
m/z
y13
y14
y12
y10
b2
y2
b3
y1
y3
y5
y11
y16+P
y22+P
y15+P
y17+P
y20+P
y15+P
b9
y17+P
y20+P
b7
b2
b7
y1
y13
y9
y5
y6
b7

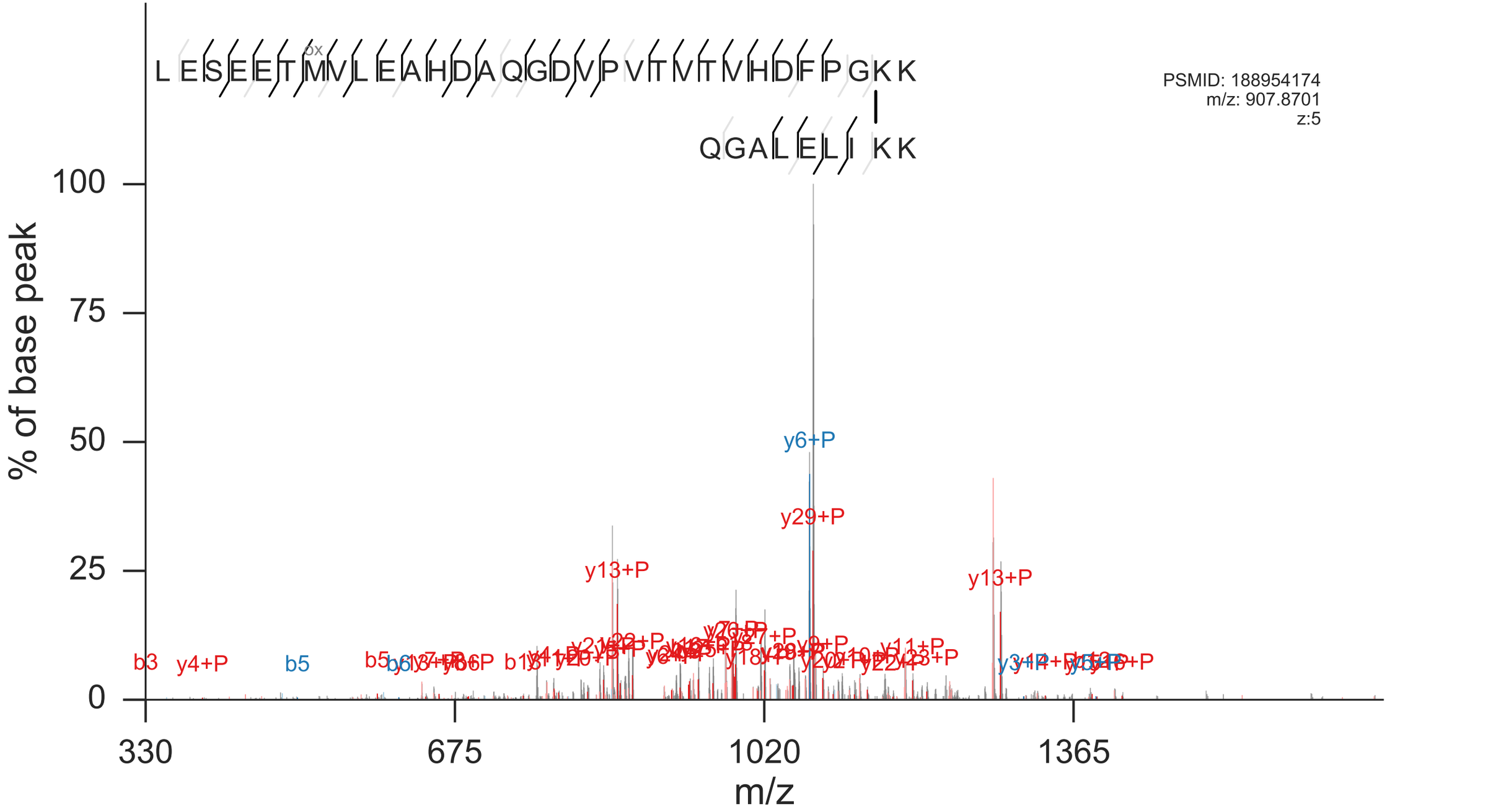


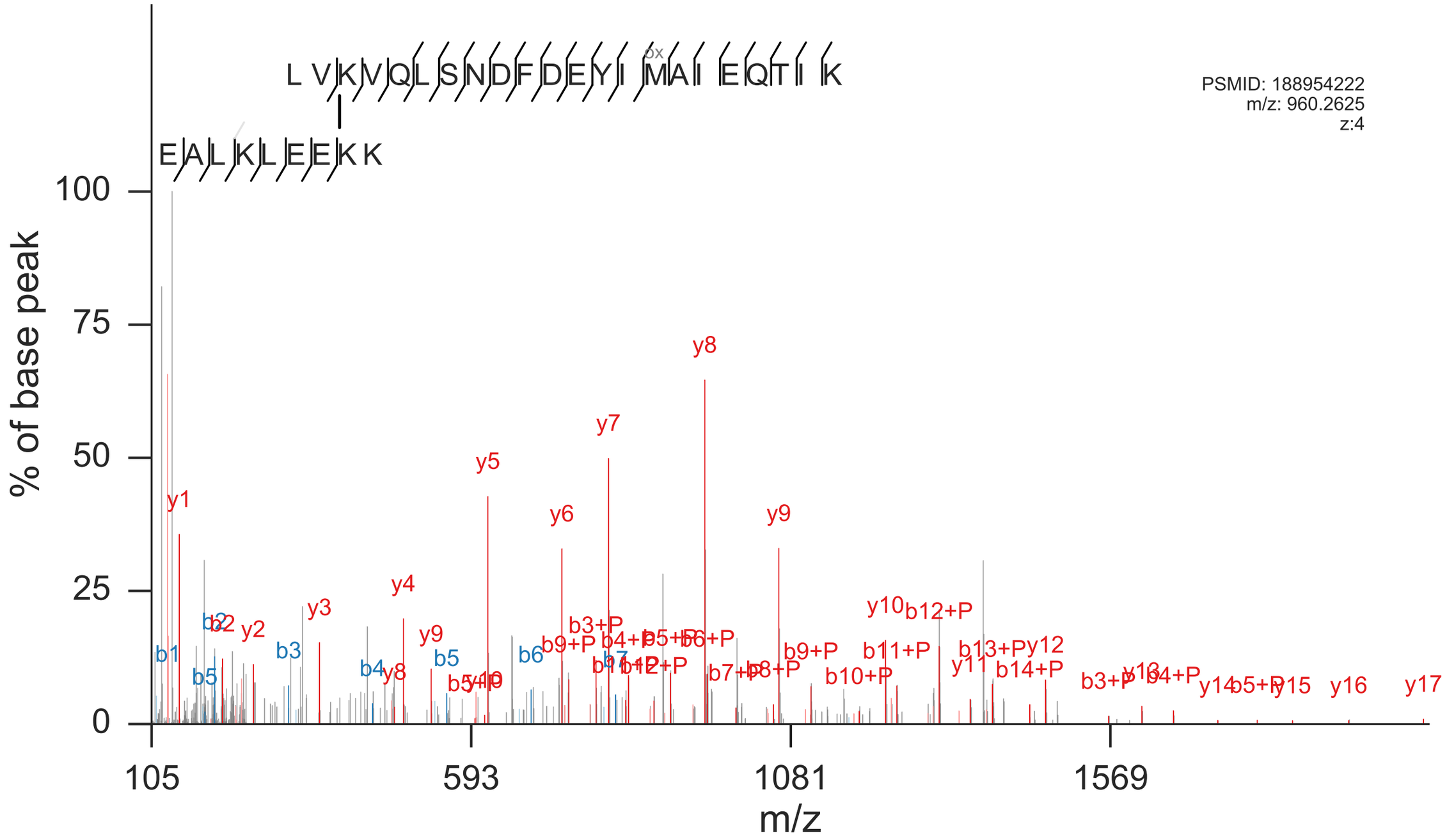
F Y H P E K E D G K L N K
T F I S P I K C R
cm
PSMID: 188954055
m/z: 955.1607
z:3
% of base peak
m/z
100
75
50
25
0
105
619
1133
1647
b2
b3
y10+P
y2
y5
P+P+P
y1
y1
b3
y2
y3
b4
b4
b2
y4
b5
b6
b5
y6
y11+P
y5+P
y7+P
y5+P
y7+P
y8+P

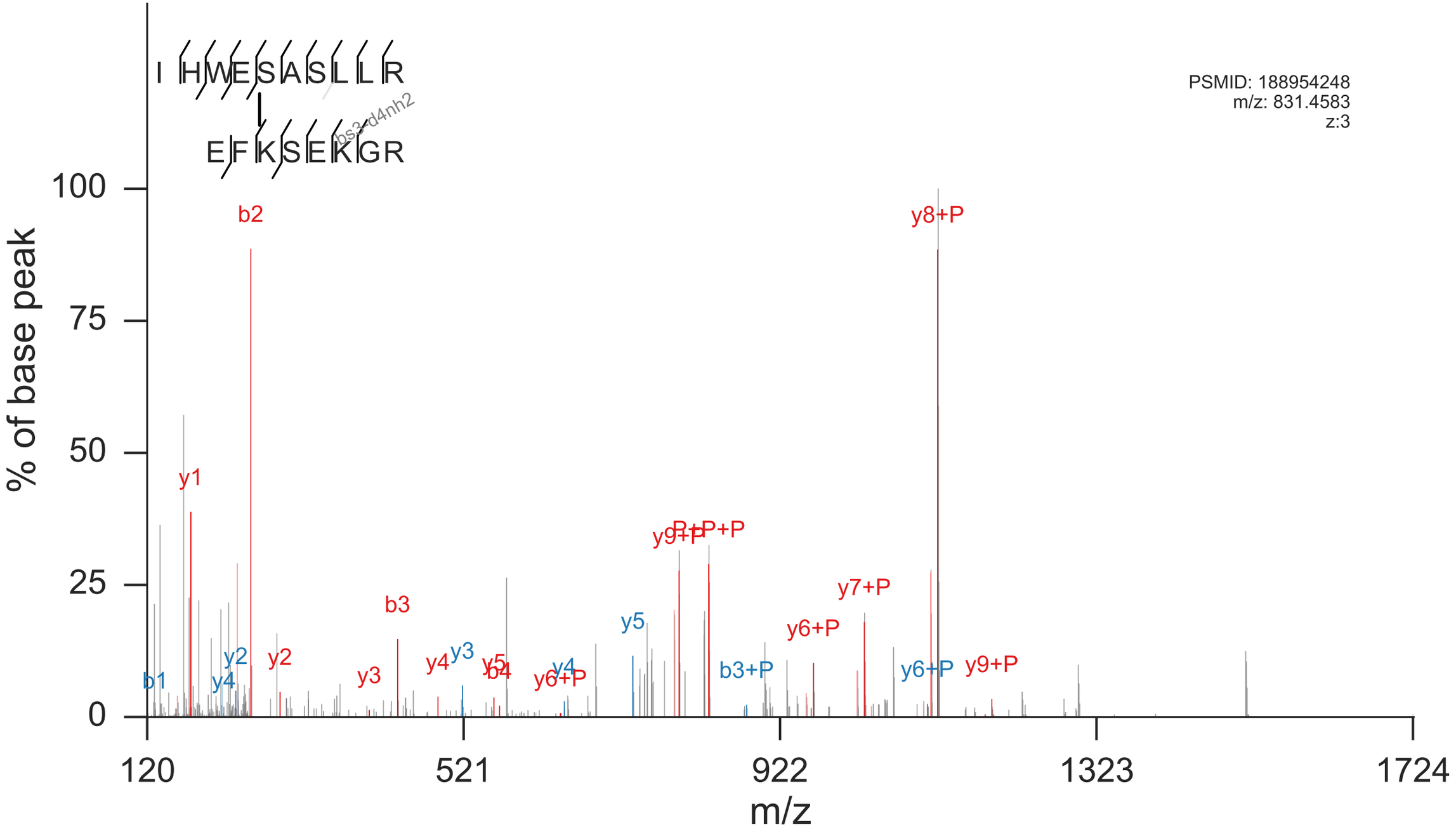

S L K V V P E G I R
A K D Q L T C N K
cm
PSMID: 188954065
m/z: 772.7626
z:3
% of base peak
100
75
50
25
0
120
476
832
1188
1544
m/z
y5
y7
y6
b3+P
y4
y7
y1
y2
y3
y3
y5
y8+P
b2
y5
y2
y6
y7
y4
y5
b4+P
y8+P
y3
b2+P

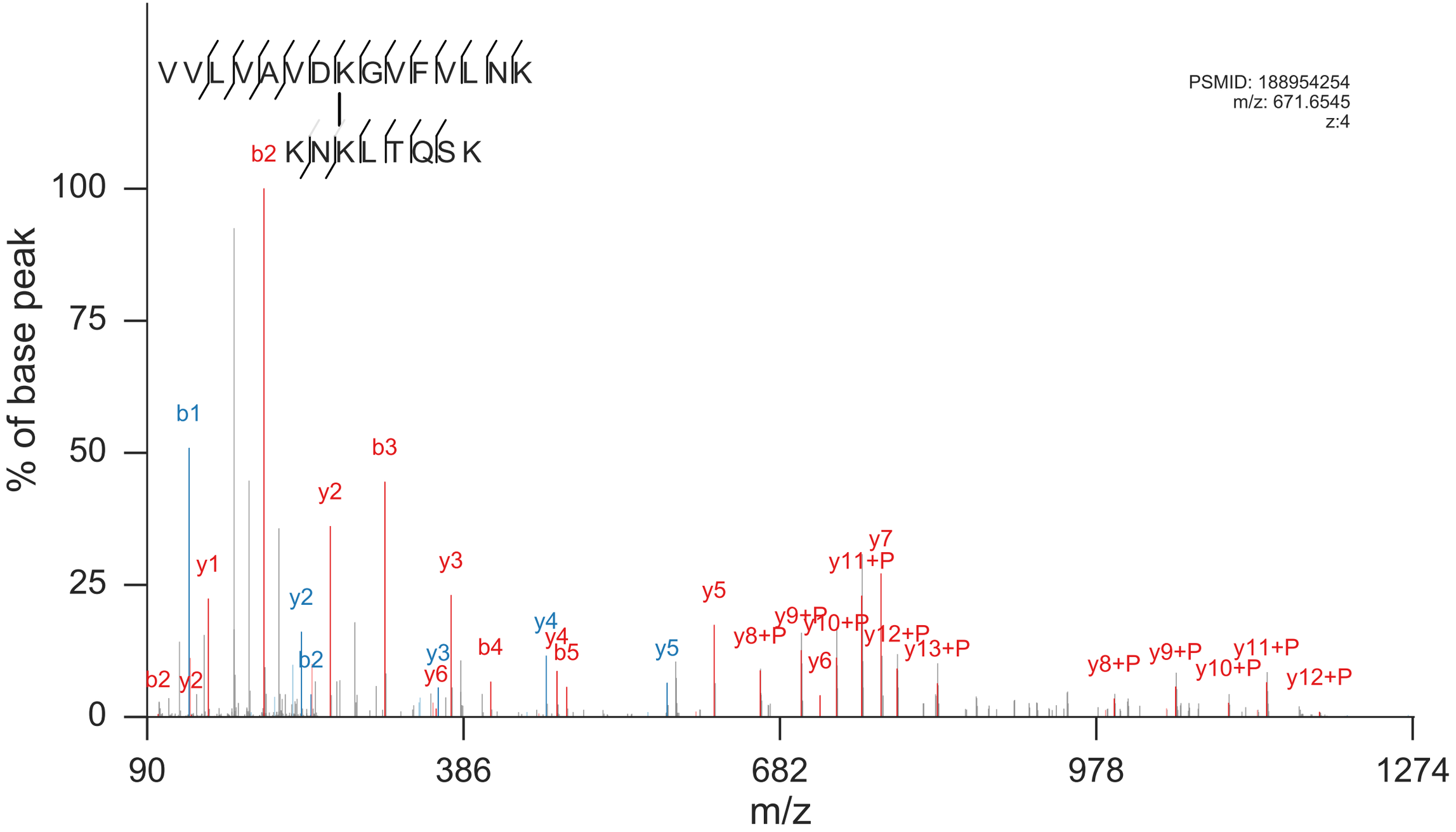

L E S E E T M ox V L E A H D A Q G D V P V T V T V H D F P G K
I F T V N H K L L P y4 G R
PSMID: 188954126
m/z: 701.0776
z:7
% of base peak
100
75
50
25
0
105
473
841
1209
m/z
y3
y1
b2
b2
y1
y4
y2
y2
y6
y3
b3
y4
y8
y9
y5
y11
y10
y12
y6
y6
b6
y7
y8+P
y8
y10
b17+P
y11
y23
y12
y15

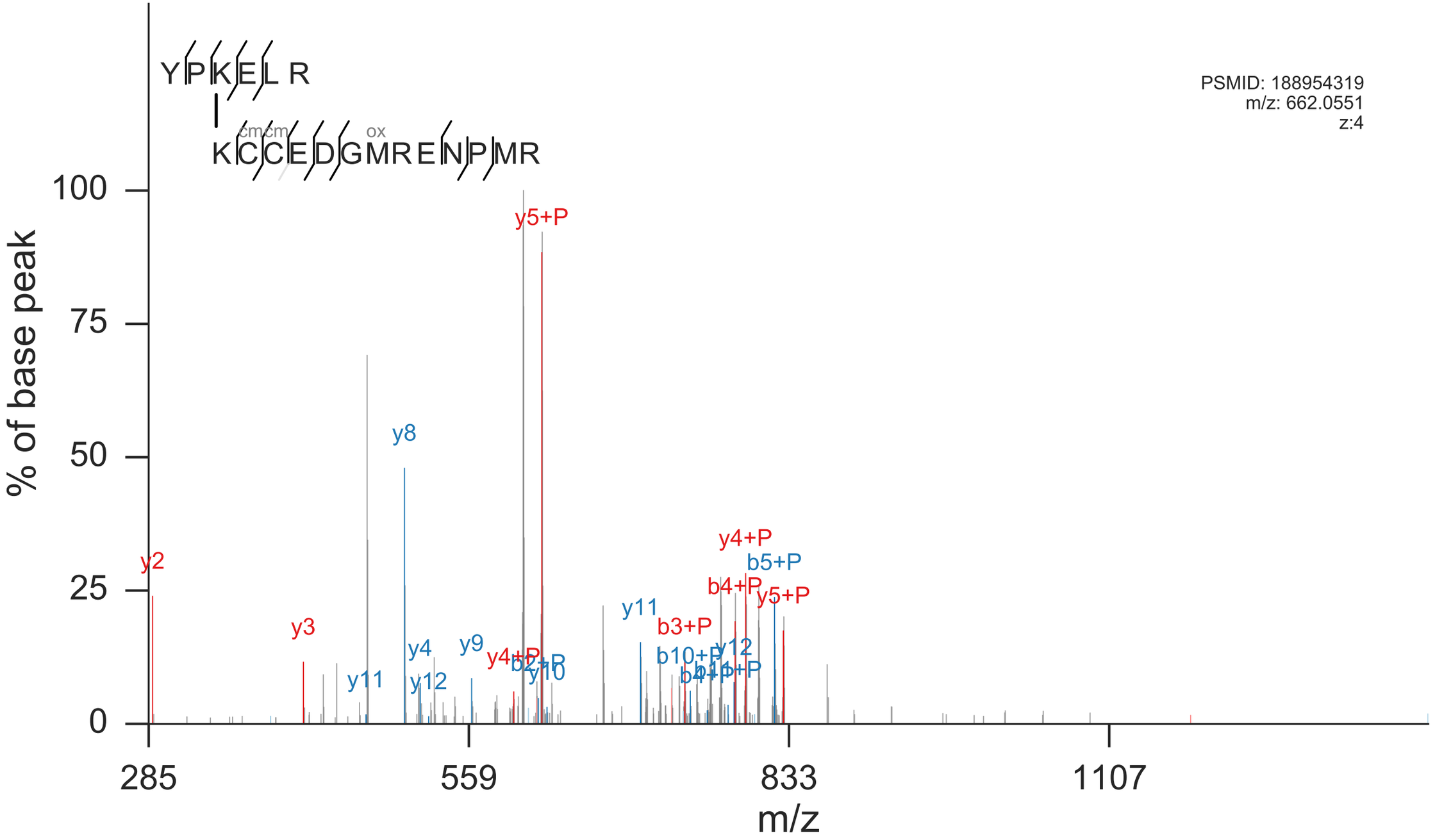

VTIKPAPETEKRPQDAK
SVQLTEK
PSMID: 188954131
m/z: 713.1406
z:4
% of base peak
100
75
50
25
0
120
394
668
942
m/z
y1
y2
b2
y2
y5
y3
y3
b4
y4
b5
y5
y13+P
P+P+P
y11+P
y12+P
y14+P
y9+P
b1+P
y11+P
y13+P

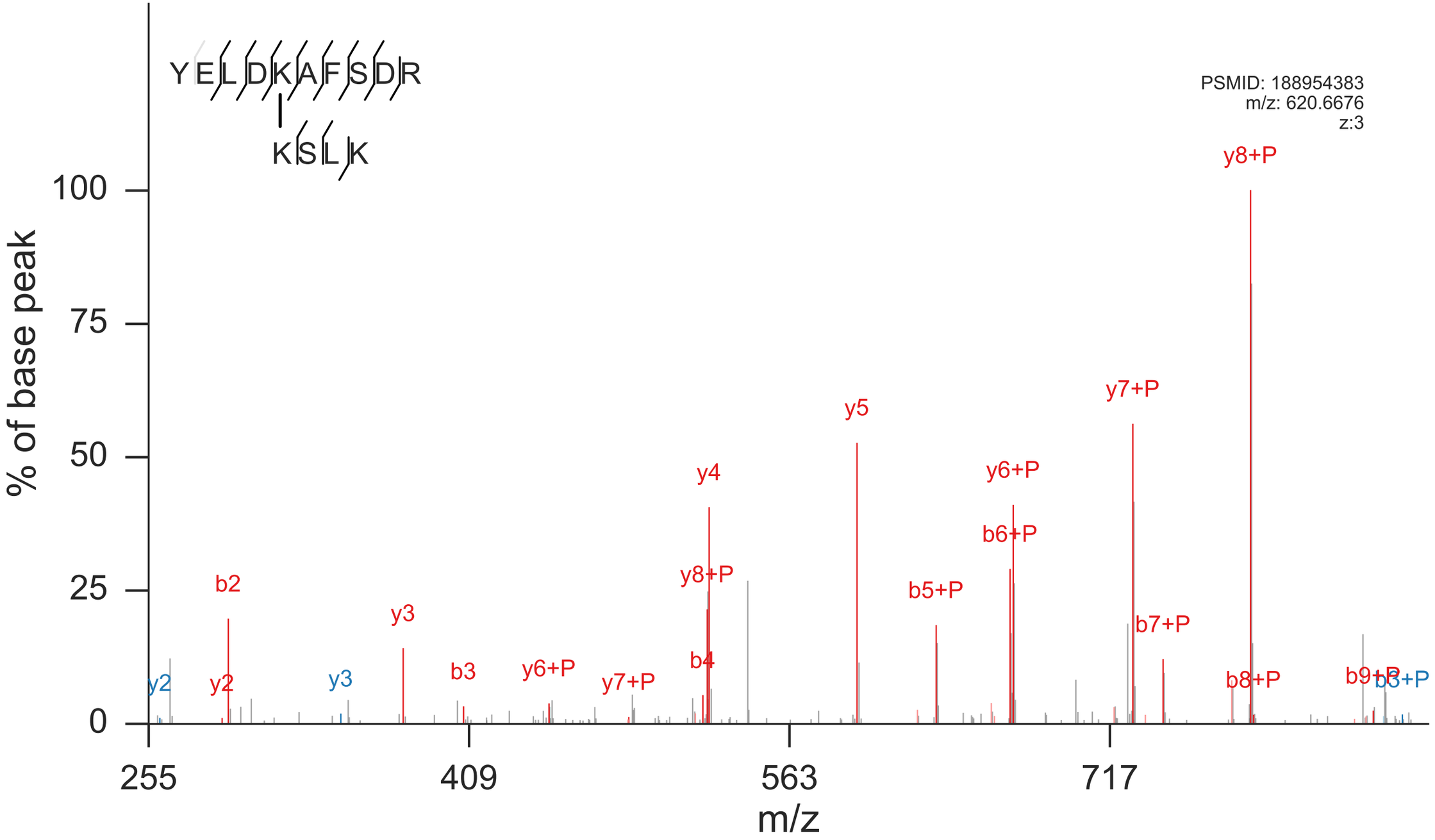

L E S E E T ox M V L E A H D A Q G D V P V T V T V H D F P G K K
Q G A L E L I K K
PSMID: 188954174
m/z: 907.8701
z:5
% of base peak
100
75
50
25
0
330
675
1020
1365
m/z
y6+P
y29+P
y13+P
y13+P
b3
y4+P
b5
b5
y11+P

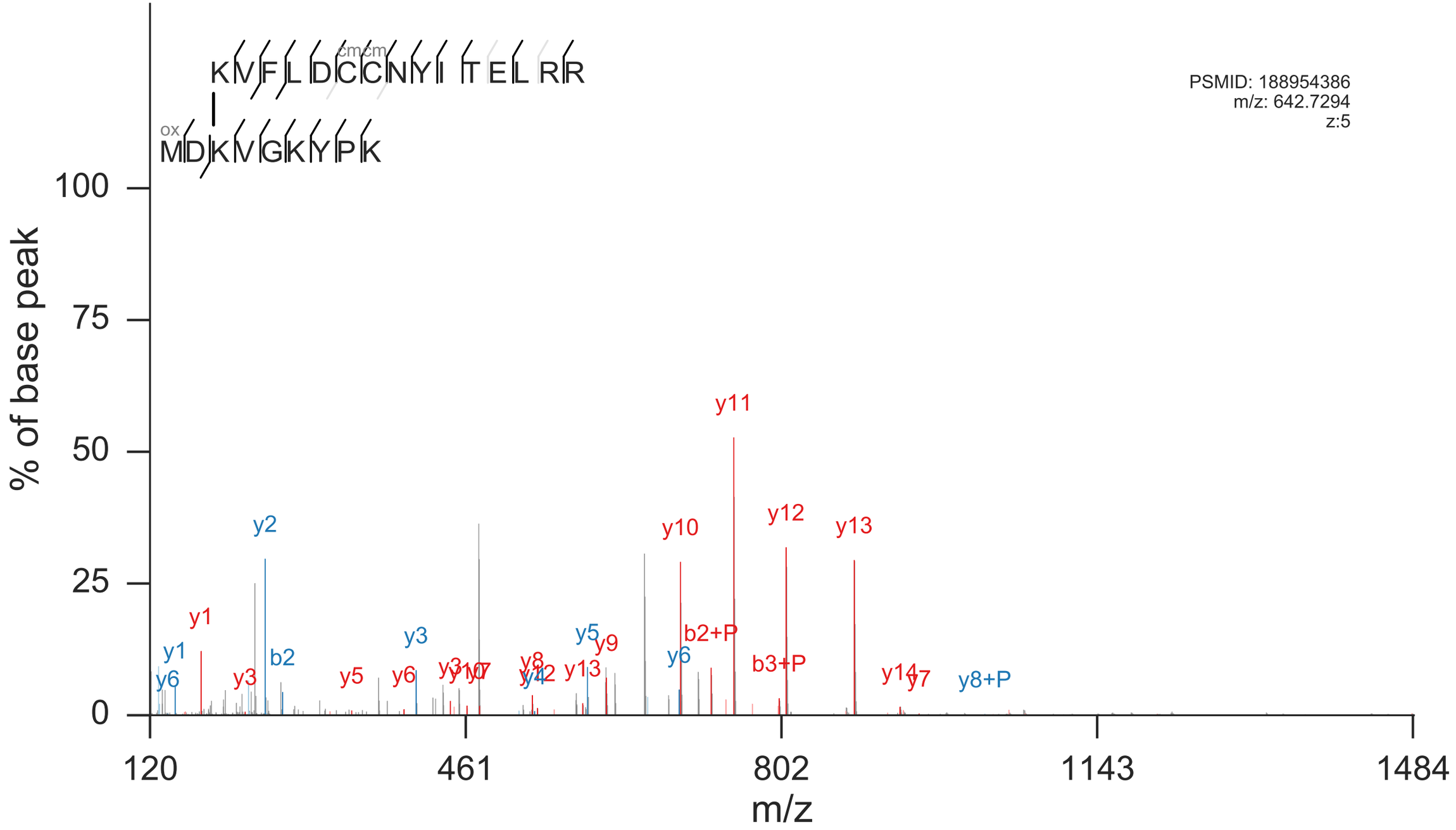

L V K V Q L S N D F D E Y I ox M A I E Q T I K
E A L K L E E K K
PSMID: 188954222
m/z: 960.2625
z:4
% of base peak
100
75
50
25
0
105
593
1081
1569
m/z
y8
y7
y5
y6
y9
y1
y4
y3
y2
b2
b1
b3
b5
b4
y10
b12+P
b3+P
b9+P
b4+P
b5+P
b6+P
b11+P
b13+P
y12
y11
b14+P
b10+P
b7+P
b8+P
y14
y15
y16
y17

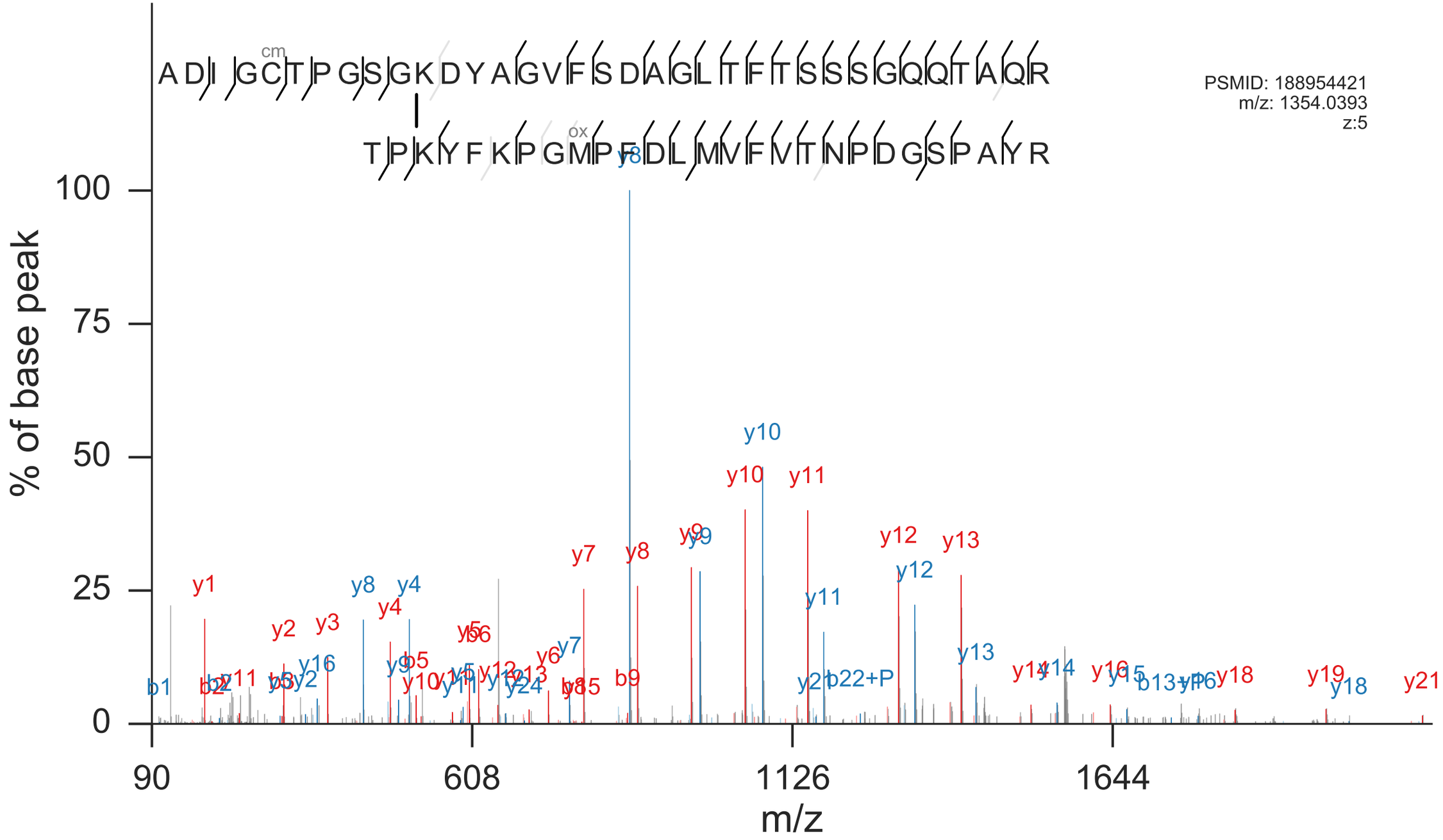

I H W E S A S L L R
E F K S E K G R
bs3-d4nh2
PSMID: 188954248
m/z: 831.4583
z:3
% of base peak
100
75
50
25
0
120
521
922
1323
1724
m/z
b2
y8+P
y1
y9+P+P+P
b3
y7+P
y5
y6+P
y2
y2
y3
y4
y3
y5
b4
y4
y6+P
b3+P
y6+P
y9+P
b1
y4

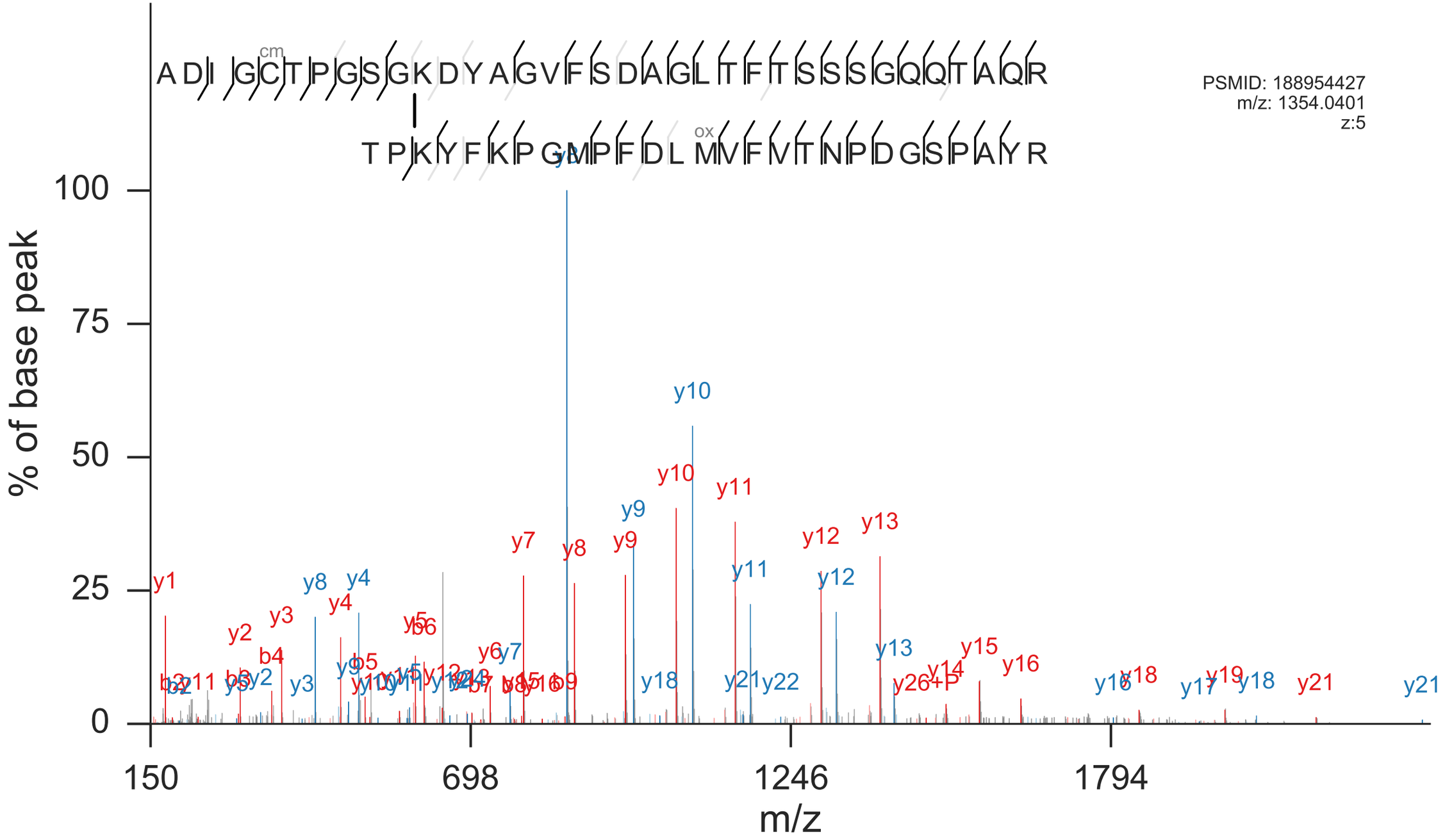

V V L V A V D K G V F V L N K
b2 K N K L I T Q S K
PSMID: 188954254
m/z: 671.6545
z:4
% of base peak
100
75
50
25
0
90
386
682
978
1274
m/z
b1
y1
b2
y2
b2
y2
b3
y3
y3
b4
y4
y4
b5
y5
y5
y8+P
y9+P
y10+P
y6
y7
y11+P
y12+P
y13+P
y8+P
y9+P
y10+P
y11+P
y12+P

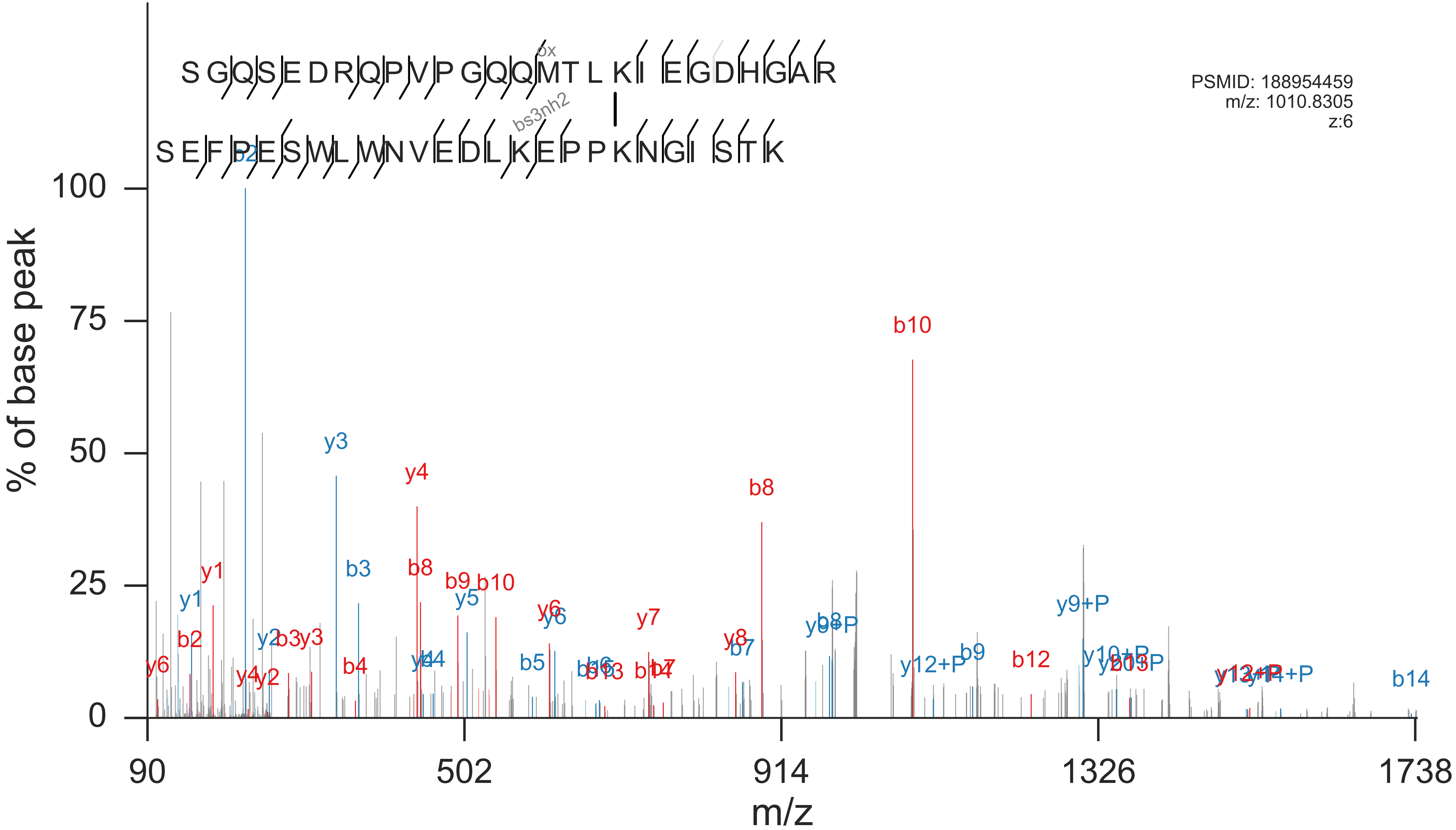

YPKEL R
KCCEDGMREENPMR
cmcm
ox
PSMID: 188954319
m/z: 662.0551
z:4
% of base peak
100
75
50
25
0
285
559
833
1107
m/z
y5+P
y8
y2
y3
y4
y9
y11
y12
y4+P
b2+P
y10
y4+P
b5+P
b4+P
y5+P
y11
b3+P
b10+P
y12
b4+P

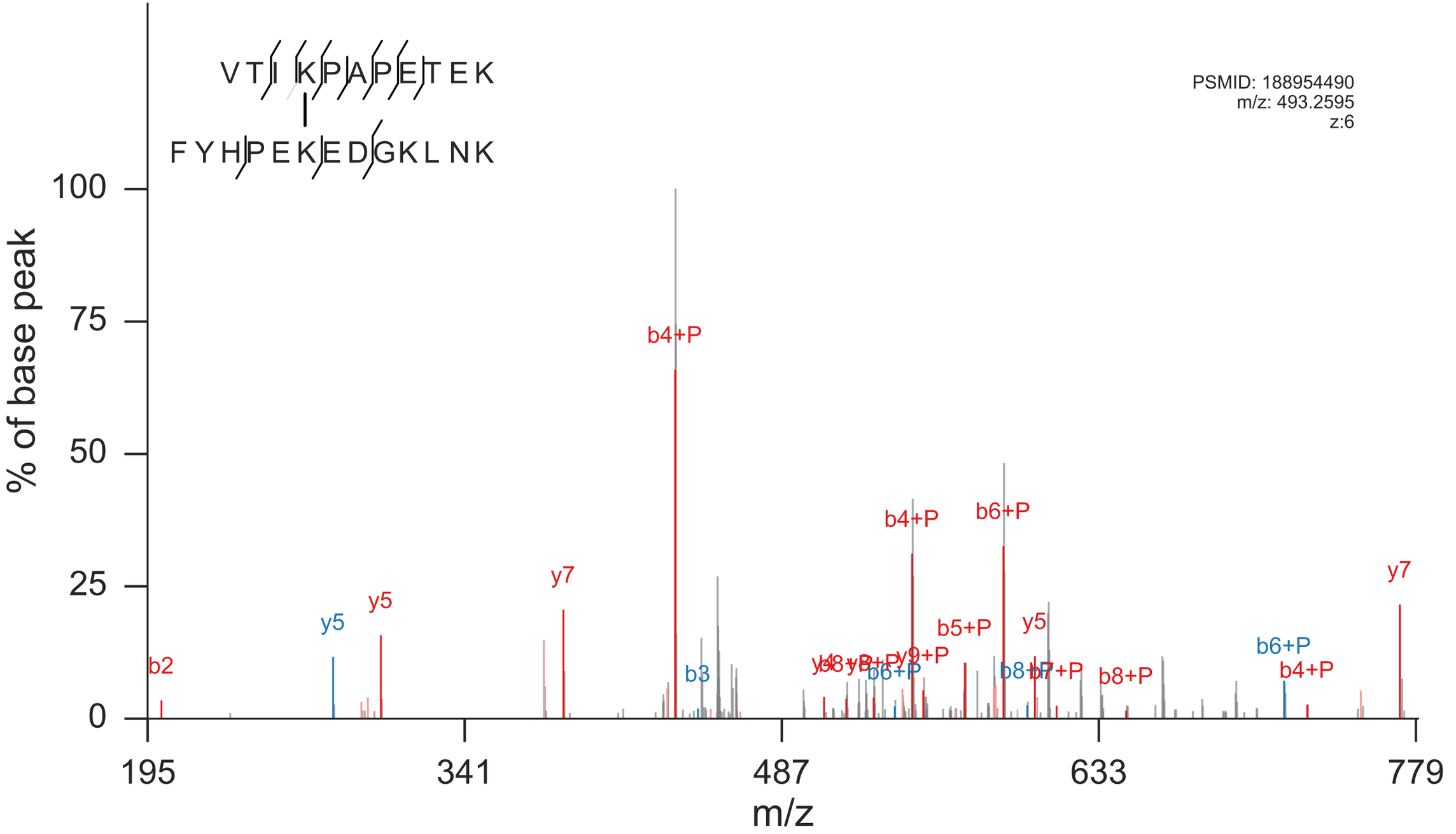

Y E L D K A F S D R
K S L K
PSMID: 188954383
m/z: 620.6676
z:3
% of base peak
100
75
50
25
0
255
409
563
717
m/z
y8+P
y7+P
y5
y4
y6+P
b6+P
y8+P
b5+P
b7+P
b2
y3
b3
y6+P
y7+P
b4
y2
y2
y3
b8+P
b9+P
b3+P

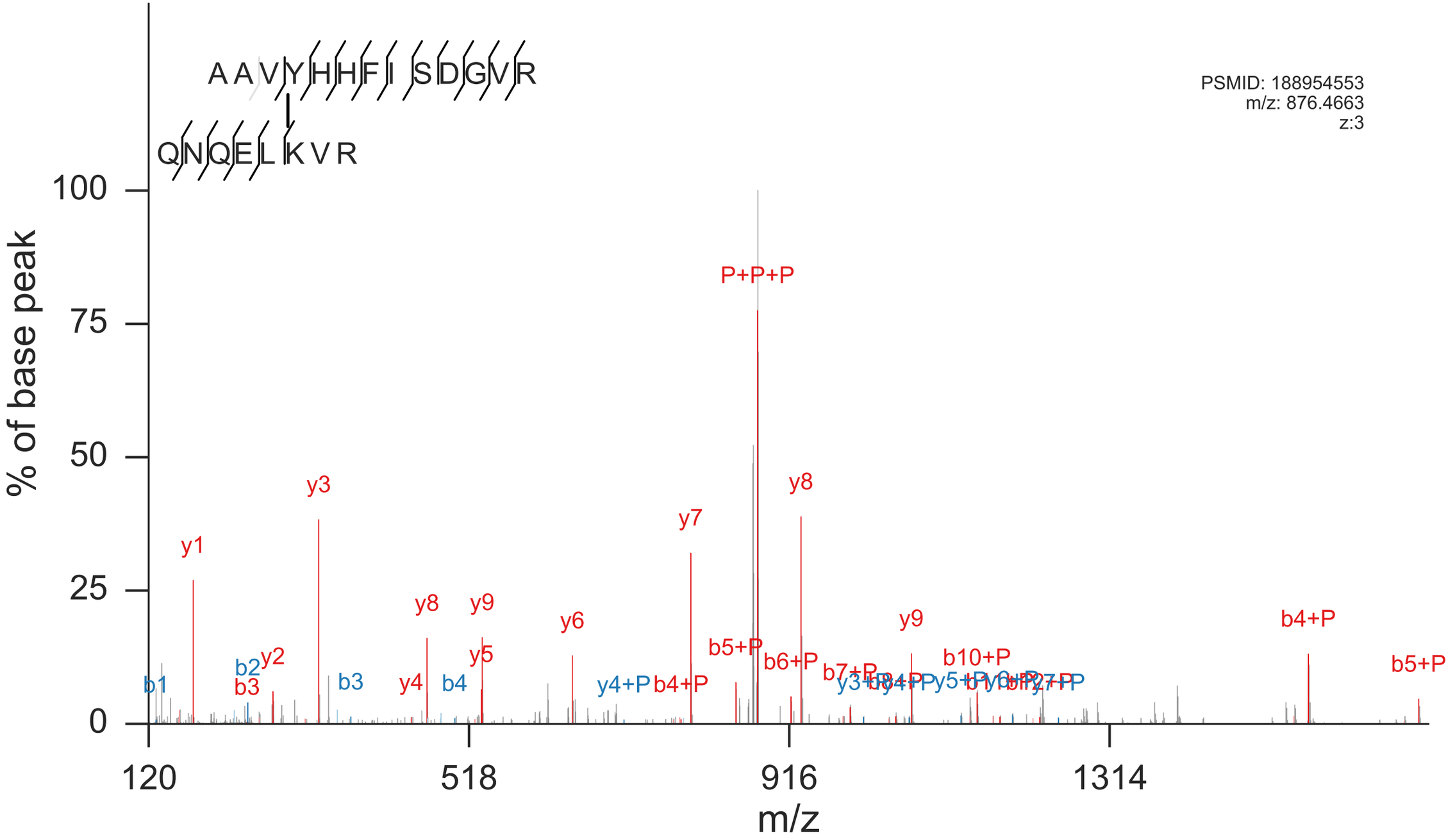

KVFLDCCCNYITELRR
cmcm
ox
MDKVGKYPK
PSMID: 188954386
m/z: 642.7294
z:5
% of base peak
100
75
50
25
0
120
461
802
1143
1484
m/z
y11
y2
y10
y12
y13
y1
b2+P
y3
y5
y9
y6
b2
b3+P
y14
y7
y8+P
y8
y13
y4
y12

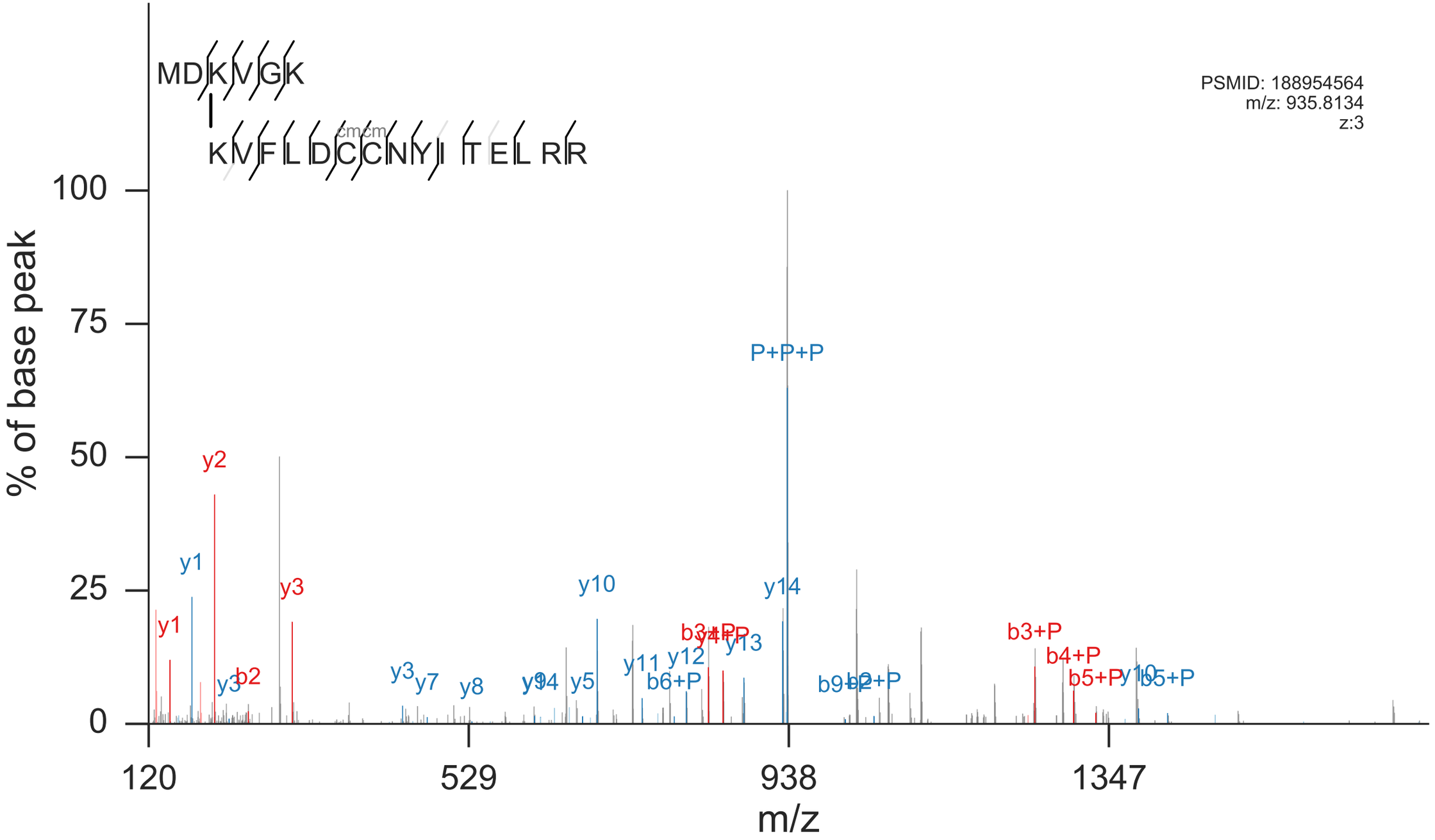

ADI GCTP GSGKDYAGVFSDAGLTFTSSSGQQTAQR
cm
TPKYFKPGMPFDLMVFVTNPDGSPAYR
ox
PSMID: 188954421
m/z: 1354.0393
z:5
% of base peak
100
75
50
25
0
90
608
1126
1644
m/z
y10
y10
y11
y12
y13
y12
y11
y9
y9
y7
y8
y8
y4
y4
y1
y2
y3
y5
y6
y7
y16
y9
b5
y10
y11
y12
y13
b9
y2
b22+P
y13
y14
y14
y16
y15
b13+P
y18
y19
y18
y21
b1
b2
y11
y5
y2
y24
y8
y5

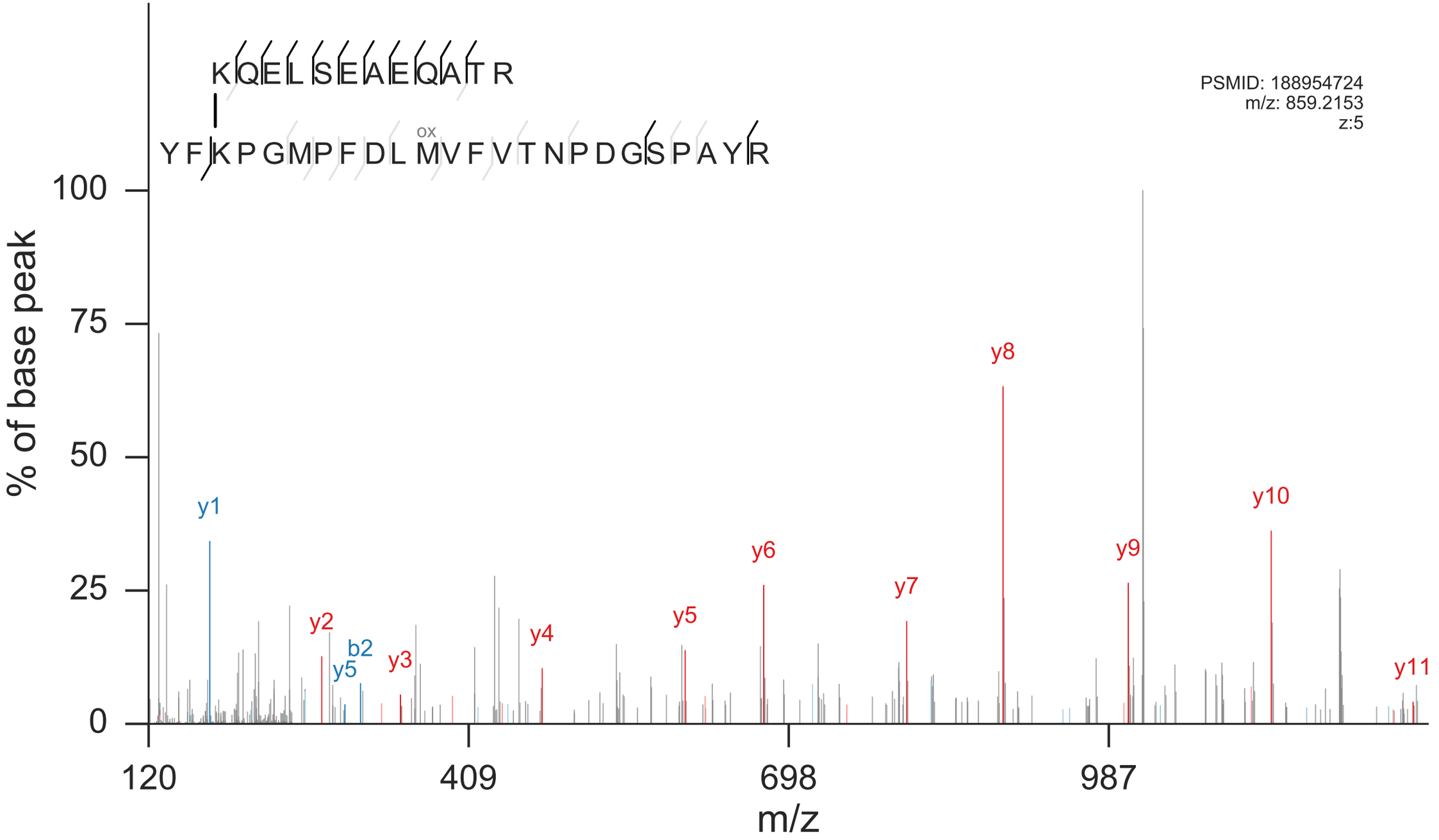

ADI GCTPGSGKDYAGVFSDAGLTFTSSSGQQTAQR
cm
TPKYFKPGMPFDLMVFVTNPDGSPAYR
ox
PSMID: 188954427
m/z: 1354.0401
z:5
% of base peak
100
75
50
25
0
150
698
1246
1794
m/z

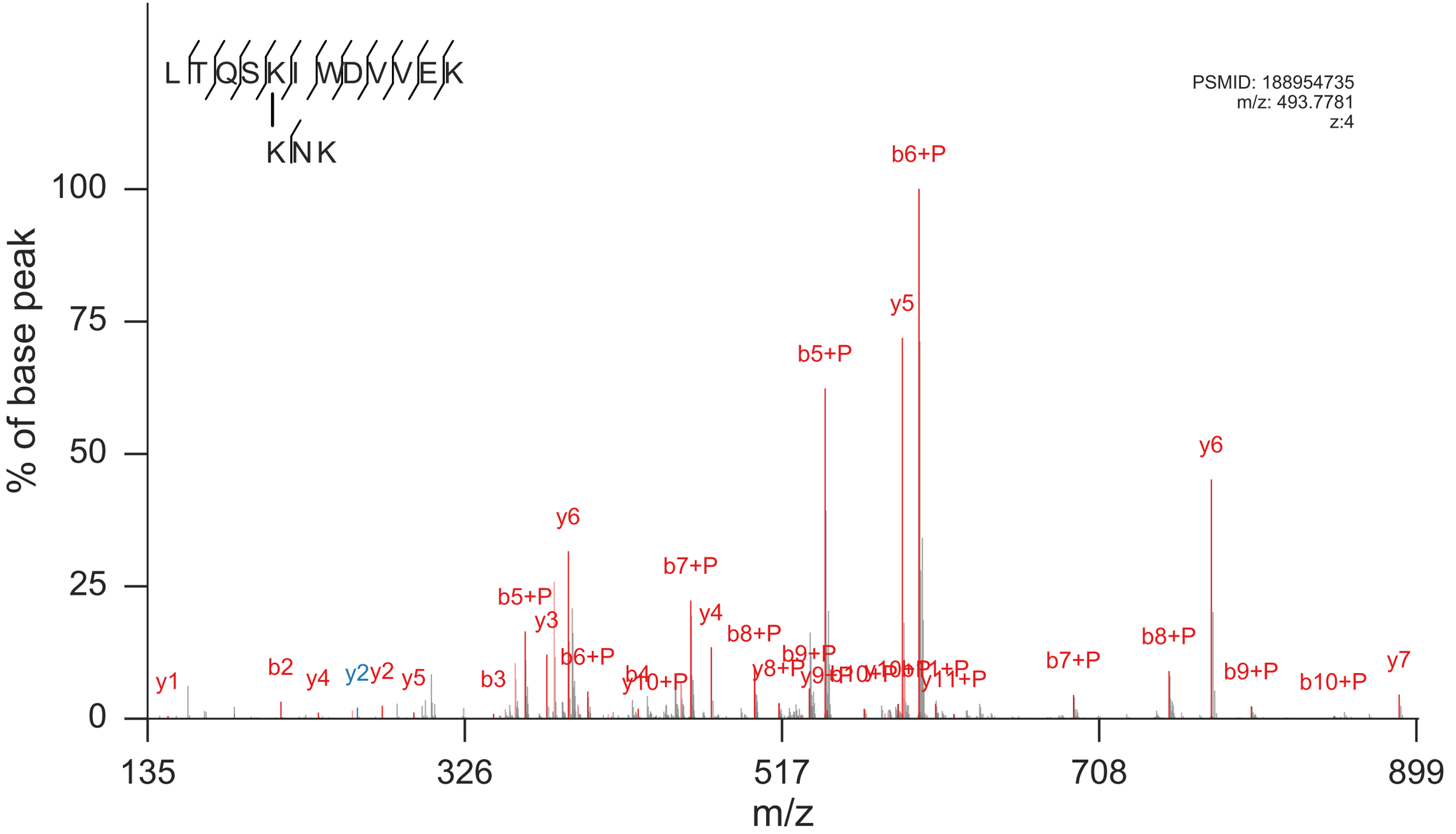

SGQSEDRQPVPGQQMTLKIEGDHGAR
SEFPESWLWNVEDLKEPPKNGISTK
ox
bs3nh2
PSMID: 188954459
m/z: 1010.8305
z:6
% of base peak
m/z
100
75
50
25
0
90
502
914
1326
1738

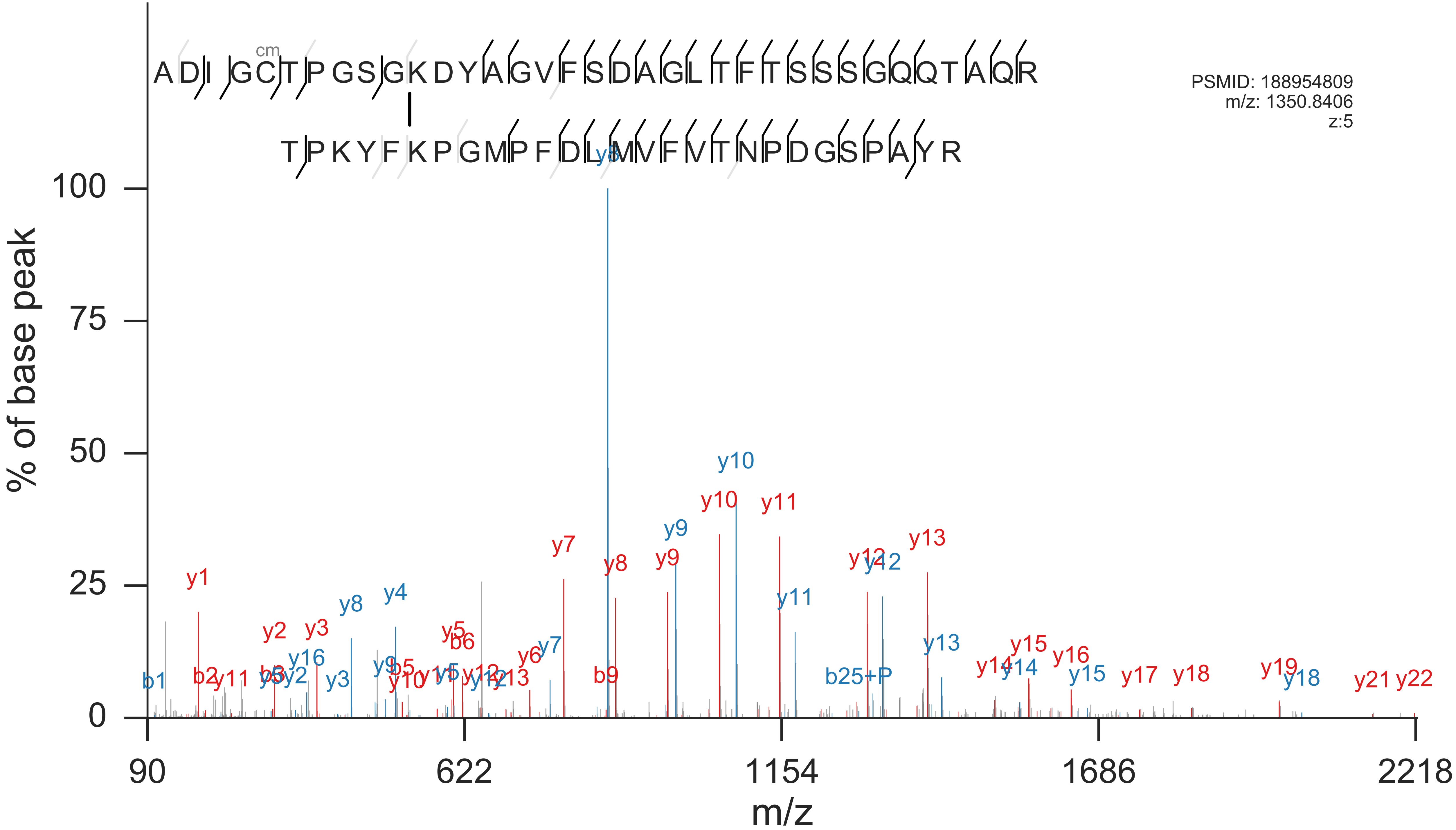

V T I K P A P E T E K
F Y H P E K E D G K L N K
PSMID: 188954490
m/z: 493.2595
z:6
% of base peak
100
75
50
25
0
195
341
487
633
779
m/z
b4+P
y7
y5
b2
b3
b6+P
b5+P
y9+P
b8+P
b4+P


AAVYHHFISDGVR
QNQELKVR
PSMID: 188954553
m/z: 876.4663
z:3
% of base peak
100
75
50
25
0
120
518
916
1314
m/z
P+P+P
y3
y8
y7
y1
y8
y9
y6
y9
b4+P
b5+P
b5+P
b6+P
b10+P
b7+P
y2
b2
b3
b1
b3
y4
b4
y4+P
b4+P

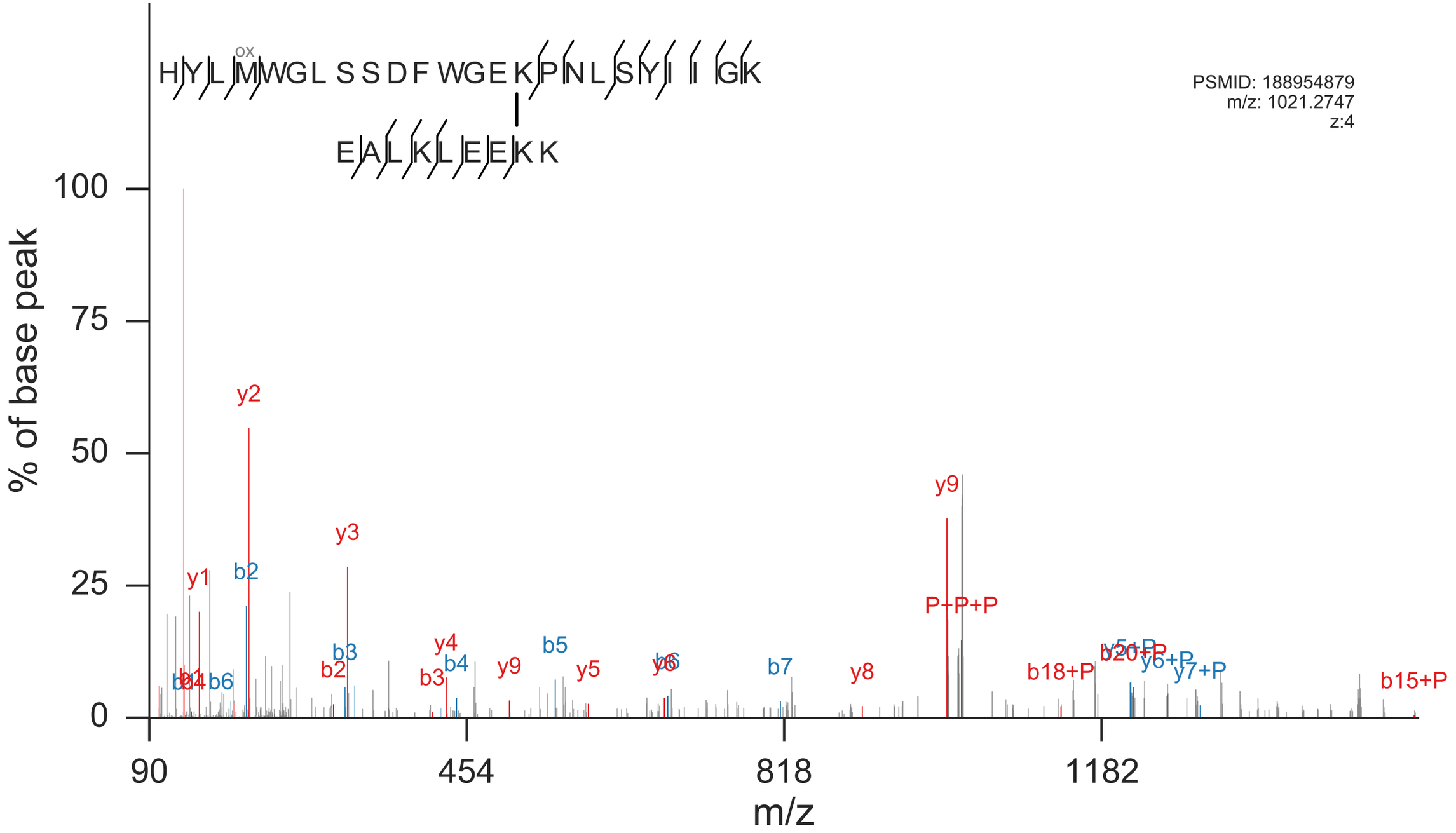

MDKVGK
KVFLDCCNYITELRR
cmcm
PSMID: 188954564
m/z: 935.8134
z:3
% of base peak
100
75
50
25
0
120
529
938
1347
m/z
P+P+P
y2
y1
y3
y10
y14
b3+P
b4+P
b5+P
b6+P
y11
y12
y13
y7
y8
y5
b2+P

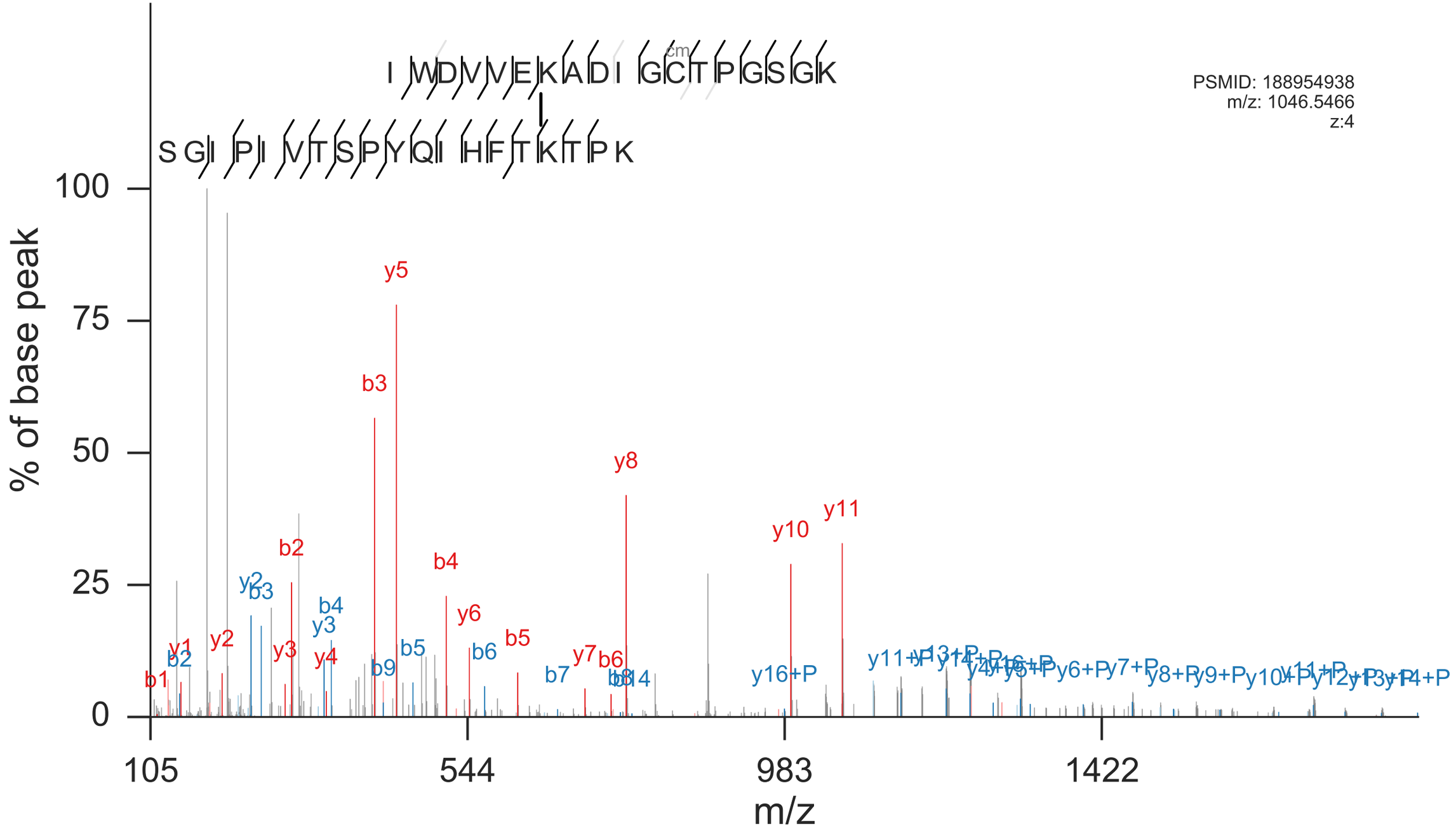

K Q E L S E A E Q A T R
Y F K P G M P F D L M V F V T N P D G S P A Y R
ox
PSMID: 188954724
m/z: 859.2153
z:5
% of base peak
100
75
50
25
0
120
409
698
987
m/z
y1
y2
b2
y5
y3
y4
y5
y6
y7
y8
y9
y10
y11

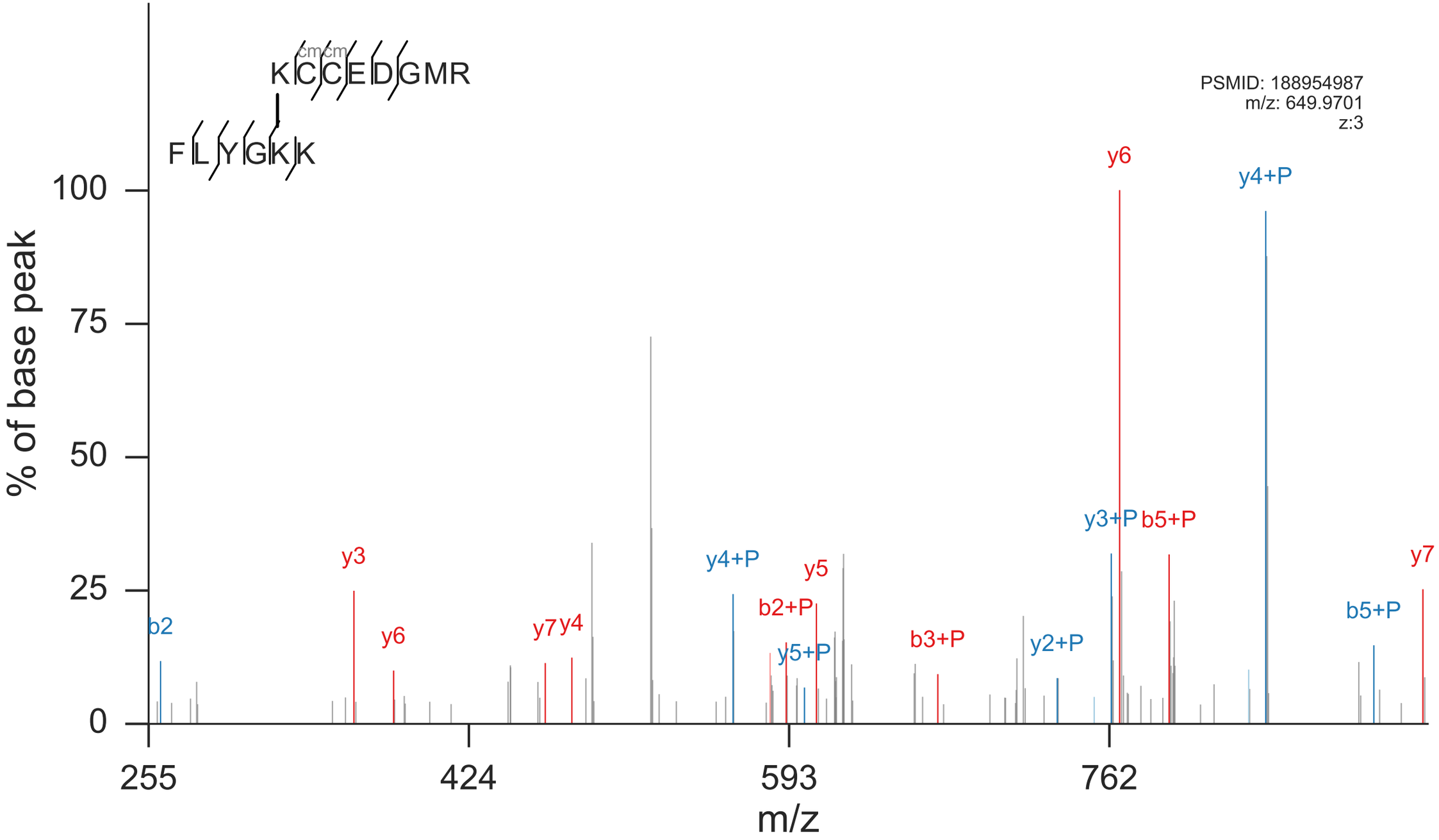

LITQSKIWDVVEK
KNK
PSMID: 188954735
m/z: 493.7781
z:4
% of base peak
100
75
50
25
0
135
326
517
708
899
m/z
b6+P
y5
b5+P
y6
b7+P
b5+P
y3
y4
b8+P
b6+P
b9+P
y8+P
y10+P
y11+P
b7+P
b8+P
y6
b9+P
b10+P
y7
y1
b2
y4
y2y2
y5
b3
b4

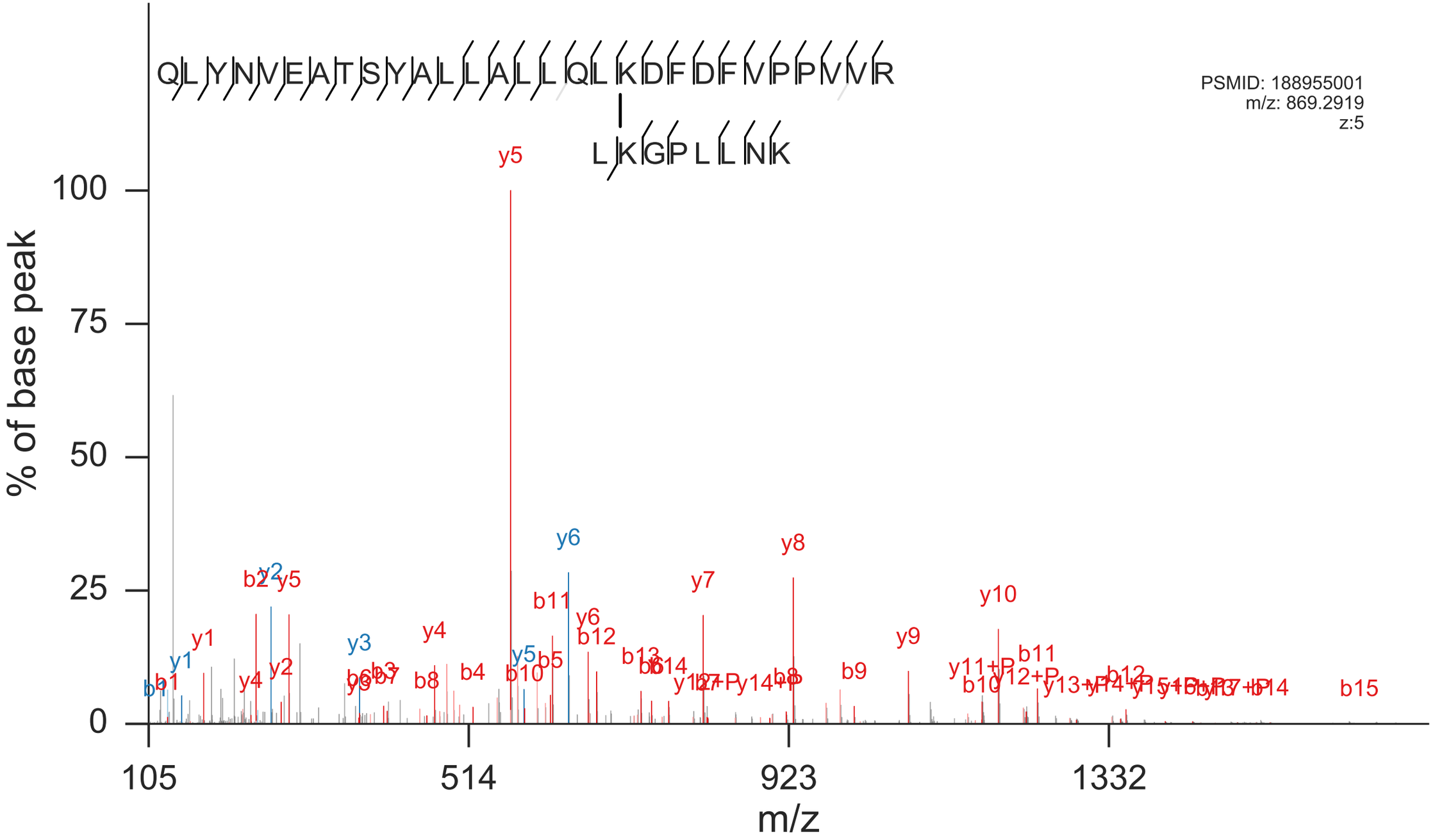


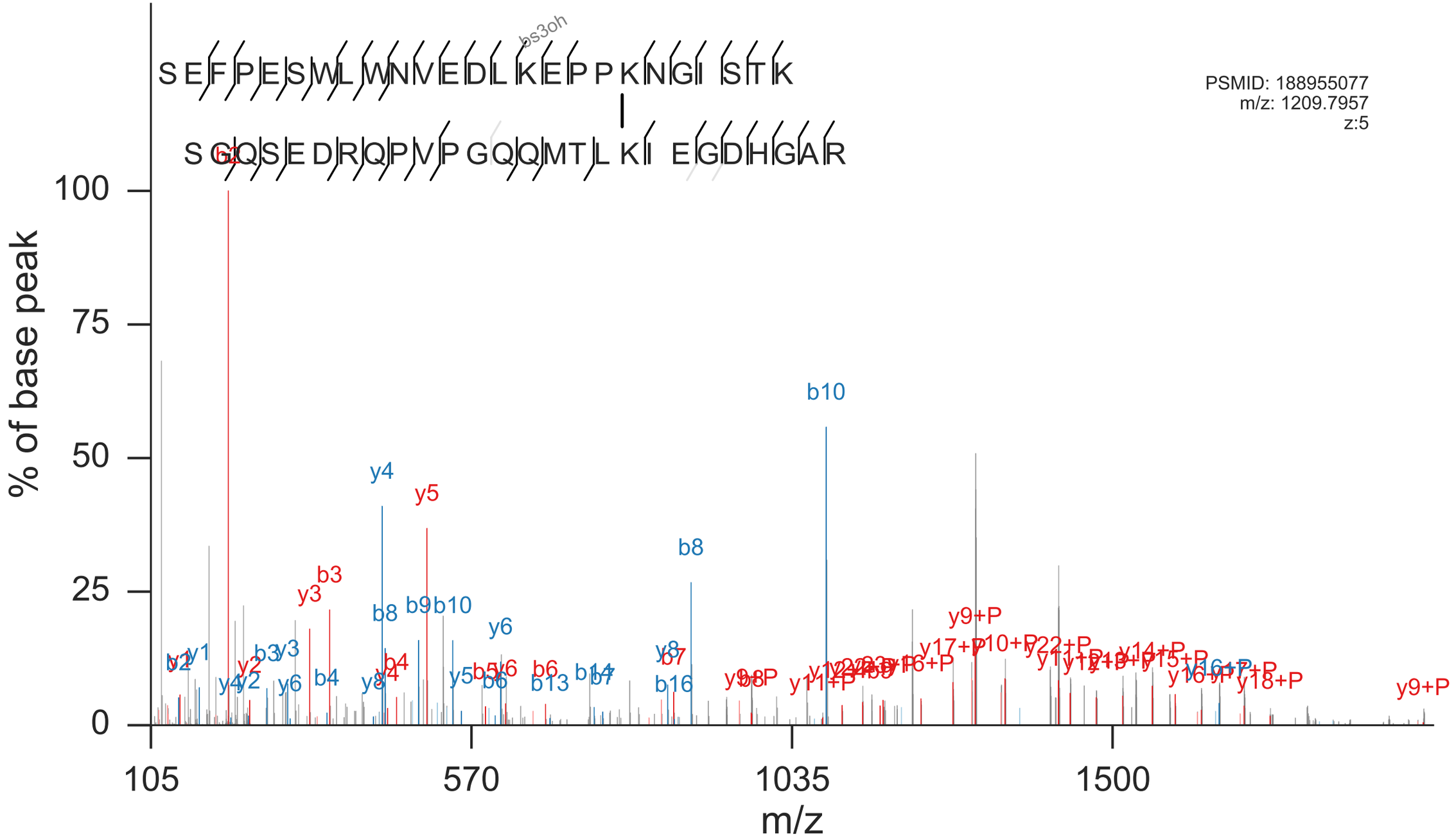
PSMID: 188954809
m/z: 1350.8406
z:5
ADIGCTPGSGKDYAGVFSDAGLTFTSSSGQQTAQR
cm
TPKYFKPGMPFDLMVFVTNPDGSPAYR
% of base peak
m/z
100
75
50
25
0
90
622
1154
1686
2218

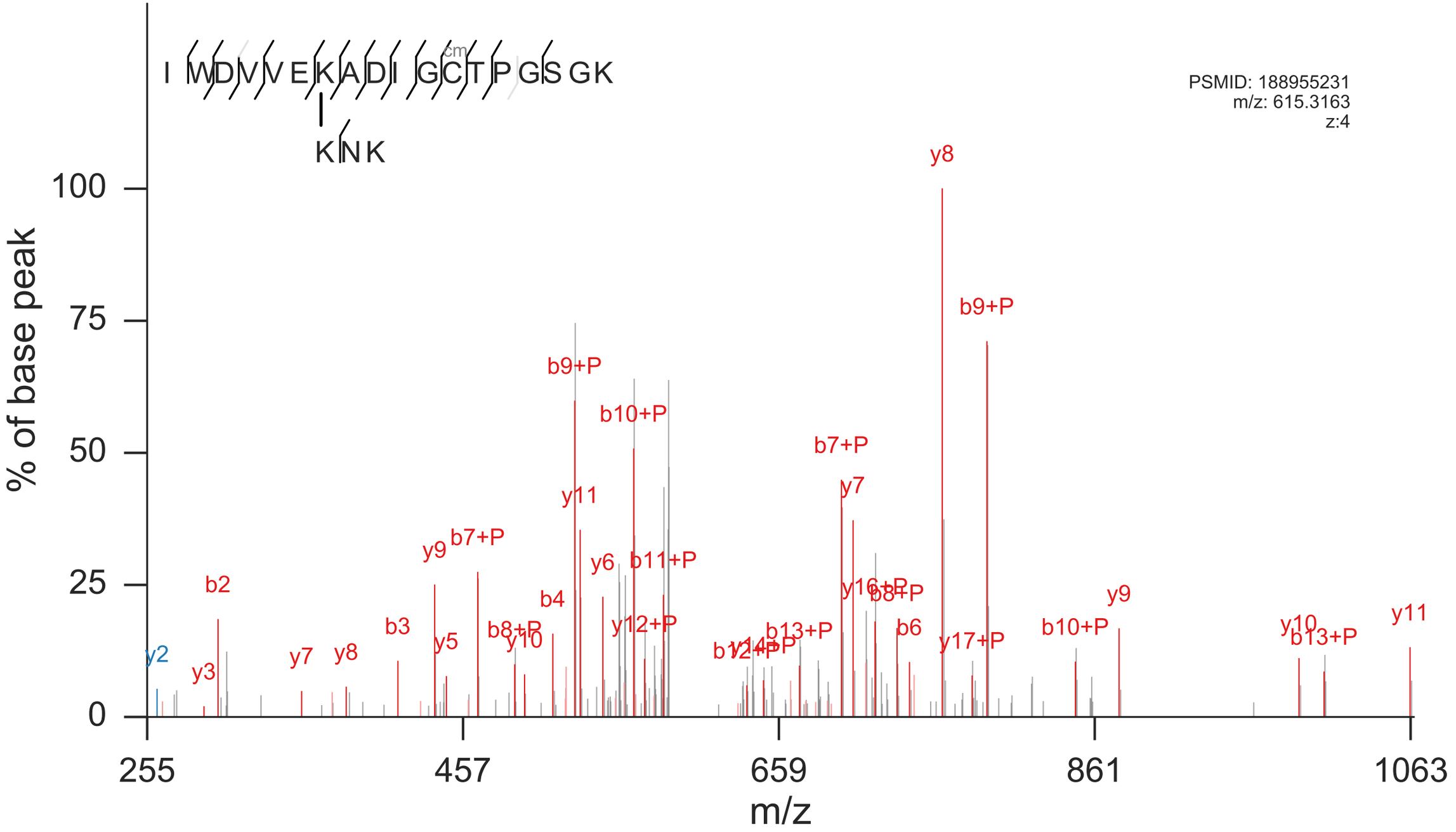

HYLMoxWGLSSDFWGEKPNLSYIIIGK
EALKLEEKK
PSMID: 188954879
m/z: 1021.2747
z:4
% of base peak
100
75
50
25
0
90
454
818
1182
m/z
y2
y3
y1
b2
y4
b3
b4
b5
y9
y5
b7
y8
P+P+P
b18+P
y6+P
y7+P
b15+P

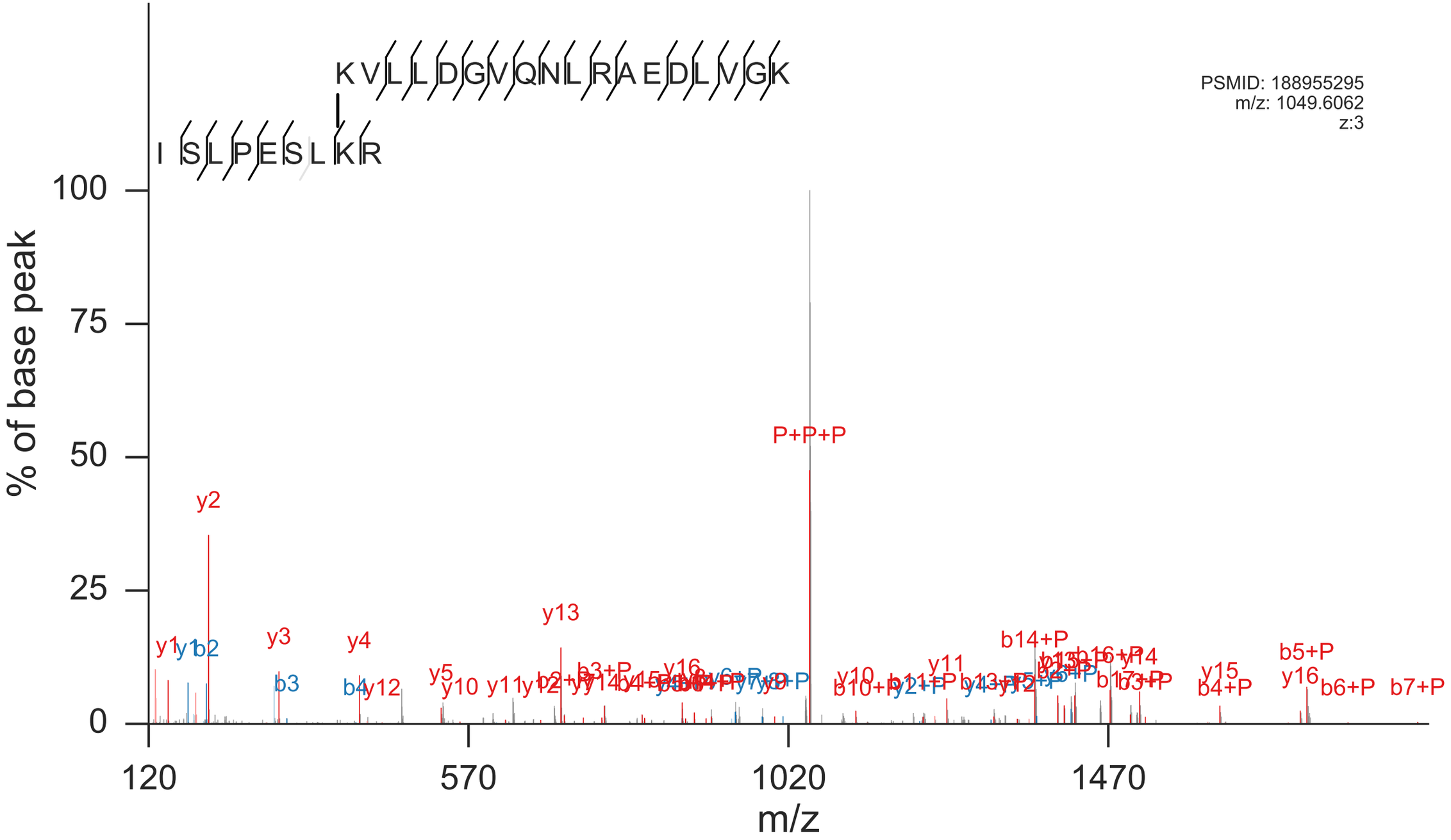

I W D V V E K A D I G C T P G S G K
cm
S G I P I V T S P Y Q I H F T K T P K
PSMID: 188954938
m/z: 1046.5466
z:4
% of base peak
100
75
50
25
0
105
544
983
1422
m/z
y5
b3
y8
y10
y11
b2
b4
y6
b5
y2
b3
b4
y3
y1
y2
y3
y4
b1
b2
b5
b9
b6
b7
y7
b6
b8
y16+P
y11+P
y6+P
y7+P
y8+P
y9+P
y10+P

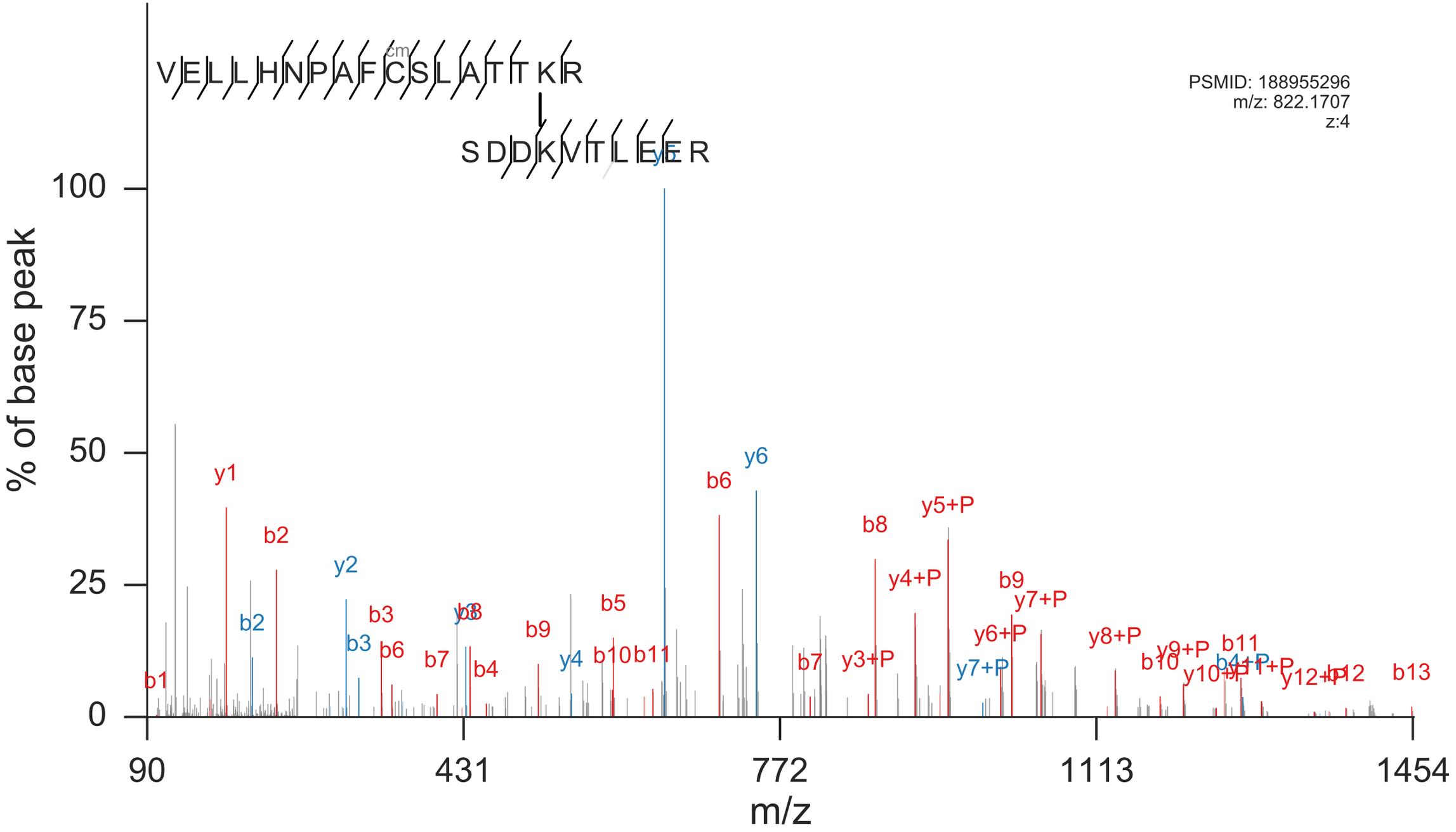

cmcm
K C C E D G M R
F L Y G K K
PSMID: 188954987
m/z: 649.9701
z:3
% of base peak
100
75
50
25
0
255
424
593
762
m/z
y6
y4+P
y3+P
b5+P
y3
y4+P
y5
y7
b2+P
b5+P
b2
y6
y7
y4
b3+P
y5+P
y2+P

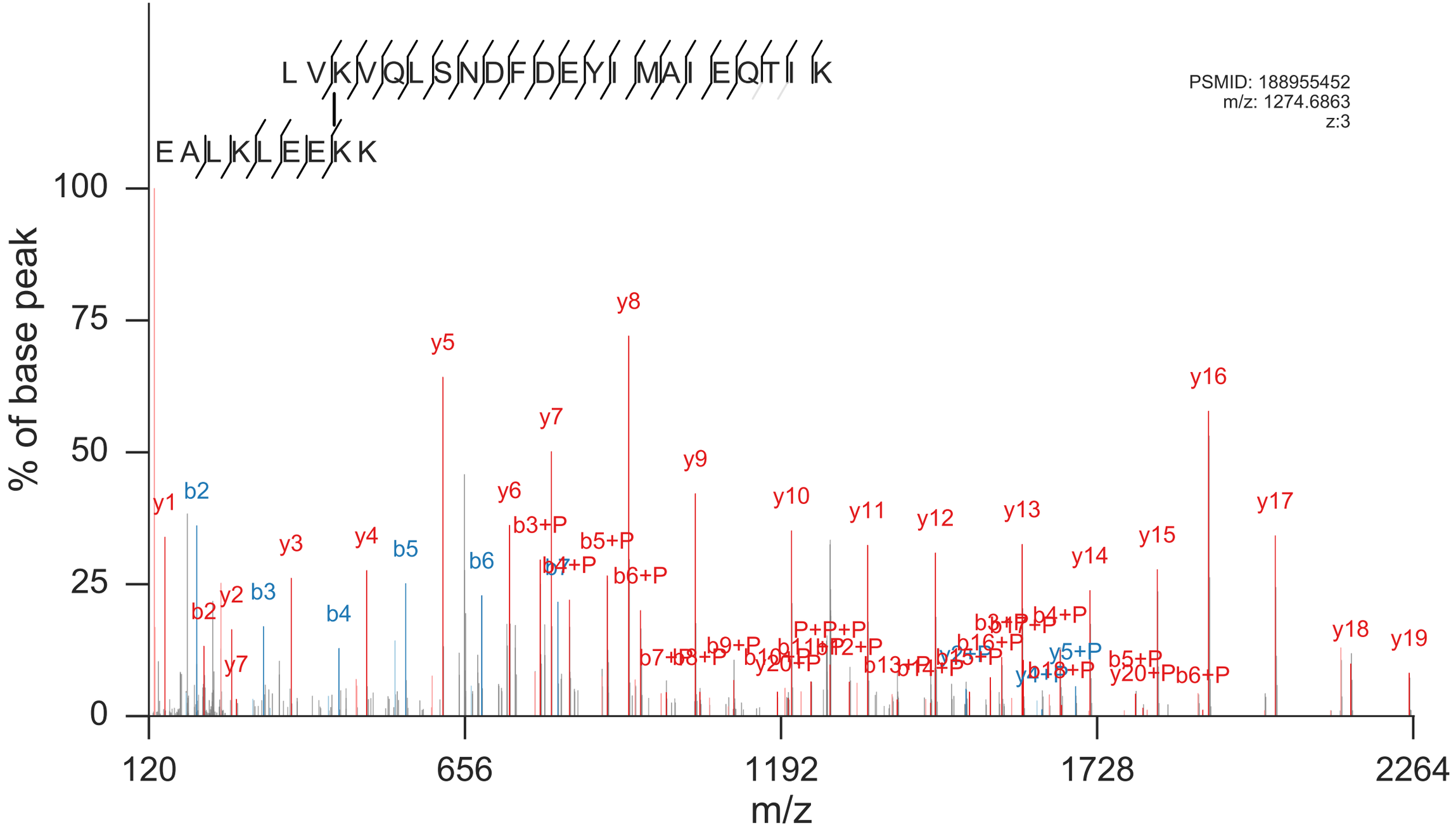

QLYNVEATSYALLALLQLKDFDFVPPVVR
LKGPLLNK
PSMID: 188955001
m/z: 869.2919
z:5
% of base peak
100
75
50
25
0
105
514
923
1332
m/z
y5
y6
y8
y7
y10
y9
b11
b12
b15
y1
y2
y3
y4
b1
b2
b4
b5
b8
b9
b10
b13
b14

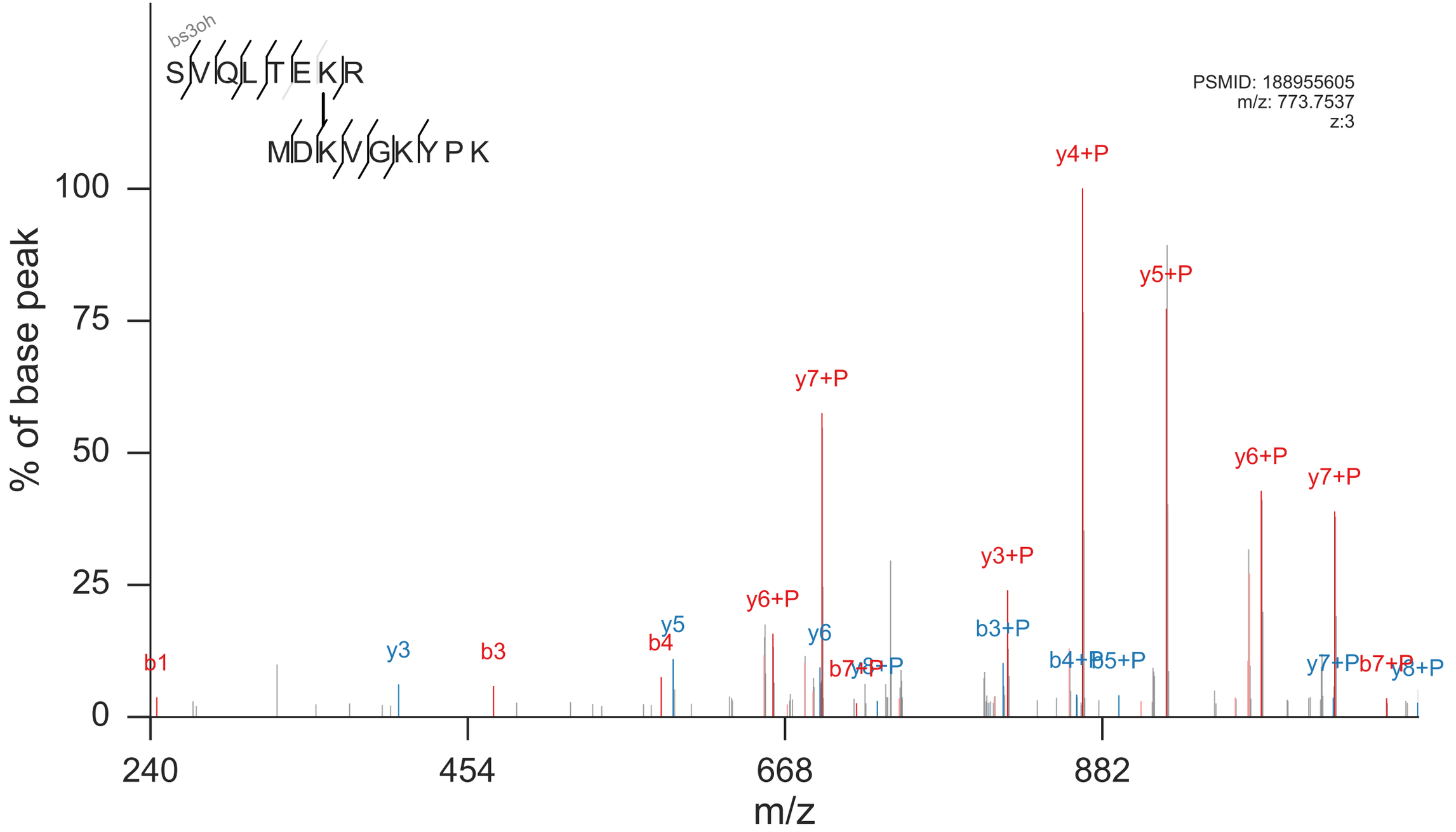

bs3oh
S E F P E S W L W N V E D L K E P P K N G I S T K
S G Q S E D R Q P V P G Q Q M T L K I E G D H G A R
PSMID: 188955077
m/z: 1209.7957
z:5
% of base peak
100
75
50
25
0
105
570
1035
1500
m/z
b10
y4
y5
b8
b3
y3
b9
y6
y9+P
y17+P
y10+P
y22+P
y14+P
y18+P

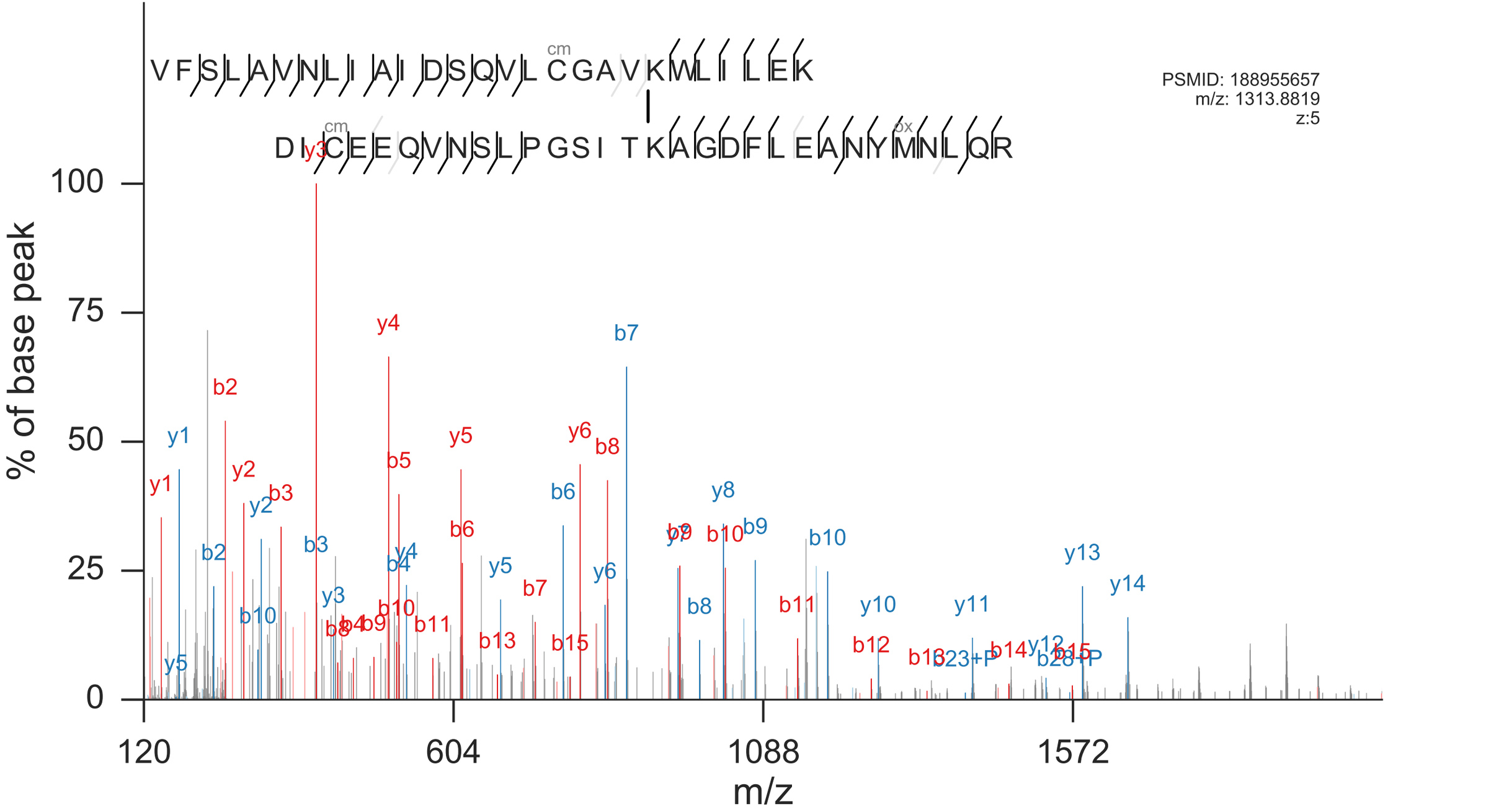

I W D V V E K A D I G C T P G S G K
cm
K N K
PSMID: 188955231
m/z: 615.3163
z:4
% of base peak
100
75
50
25
0
255
457
659
861
1063
m/z
y8
b9+P
b9+P
b10+P
b7+P
y7
y11
y9
b7+P
y6
b11+P
b2
b4
y16+P
b8+P
y9
y10
y11
b3
y5
b8+P
y10
y12+P
b13+P
b6
b10+P
b13+P
y2
y3
y7
y8
y17+P

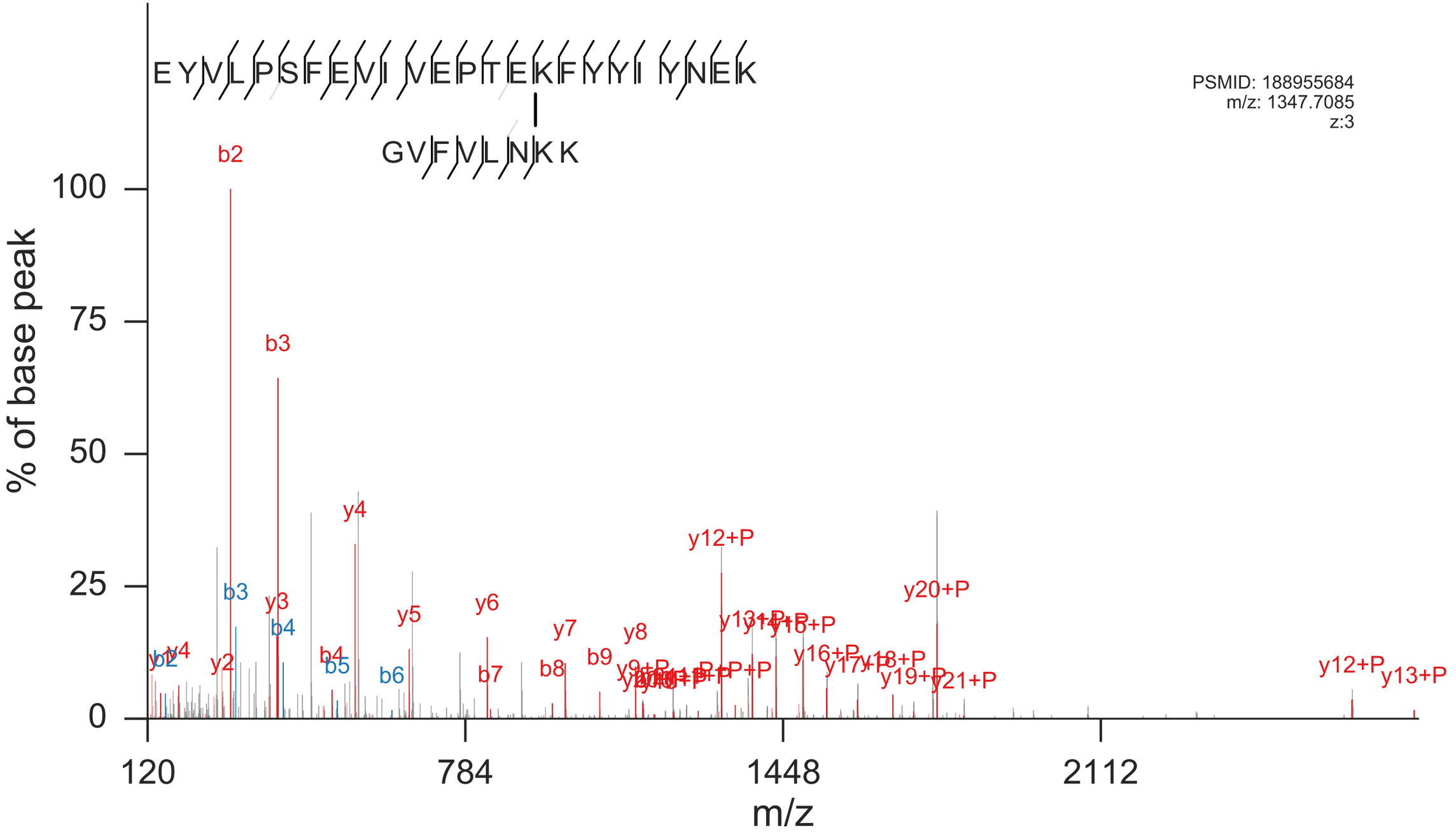

K V L L D G V Q N L R A E D L V G K
I S L P E S L K R
PSMID: 188955295
m/z: 1049.6062
z:3
% of base peak
100
75
50
25
0
120
570
1020
1470
m/z
P+P+P
y2
y13
y1
y1
b2
y3
b3
y4
b4
y12
y5
y10
y11
b14+P
b5+P
y16
b6+P
b7+P
y15
b4+P
y14
b10+P
y2+P
y11
b3+P

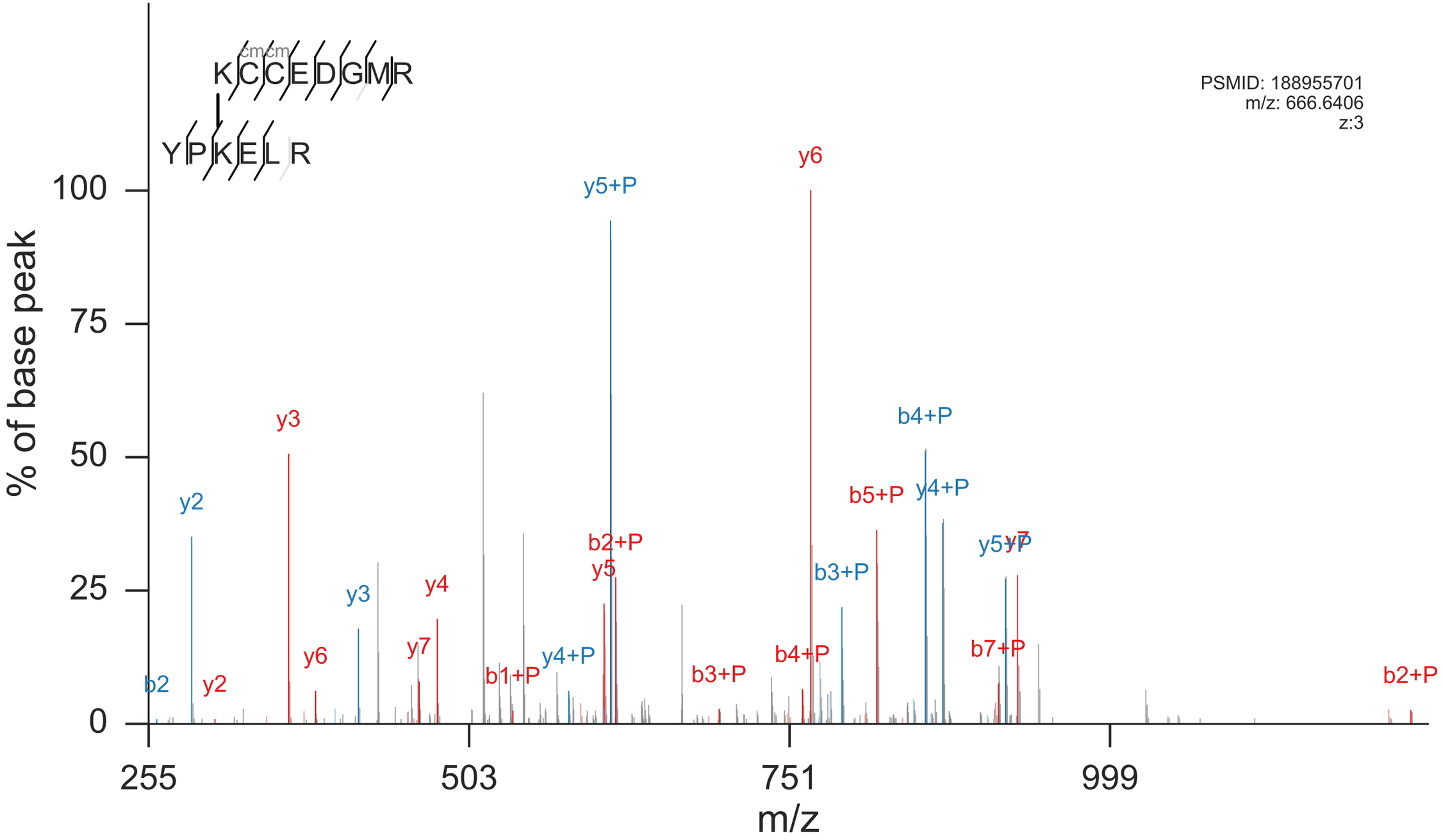

VELLHNPAFCSLATTKR
cm
SDDKVTLEER
PSMID: 188955296
m/z: 822.1707
z:4
% of base peak
100
75
50
25
0
90
431
772
1113
1454
m/z
y1
b2
y2
b3
b6
b7
b4
b9
b5
y4
b10
b11
y6
b6
b8
y5+P
y4+P
b9
y7+P
y6+P
y3+P
y8+P
b10
y9+P
b11
y10+P
y11+P
y12+P
b12
b13

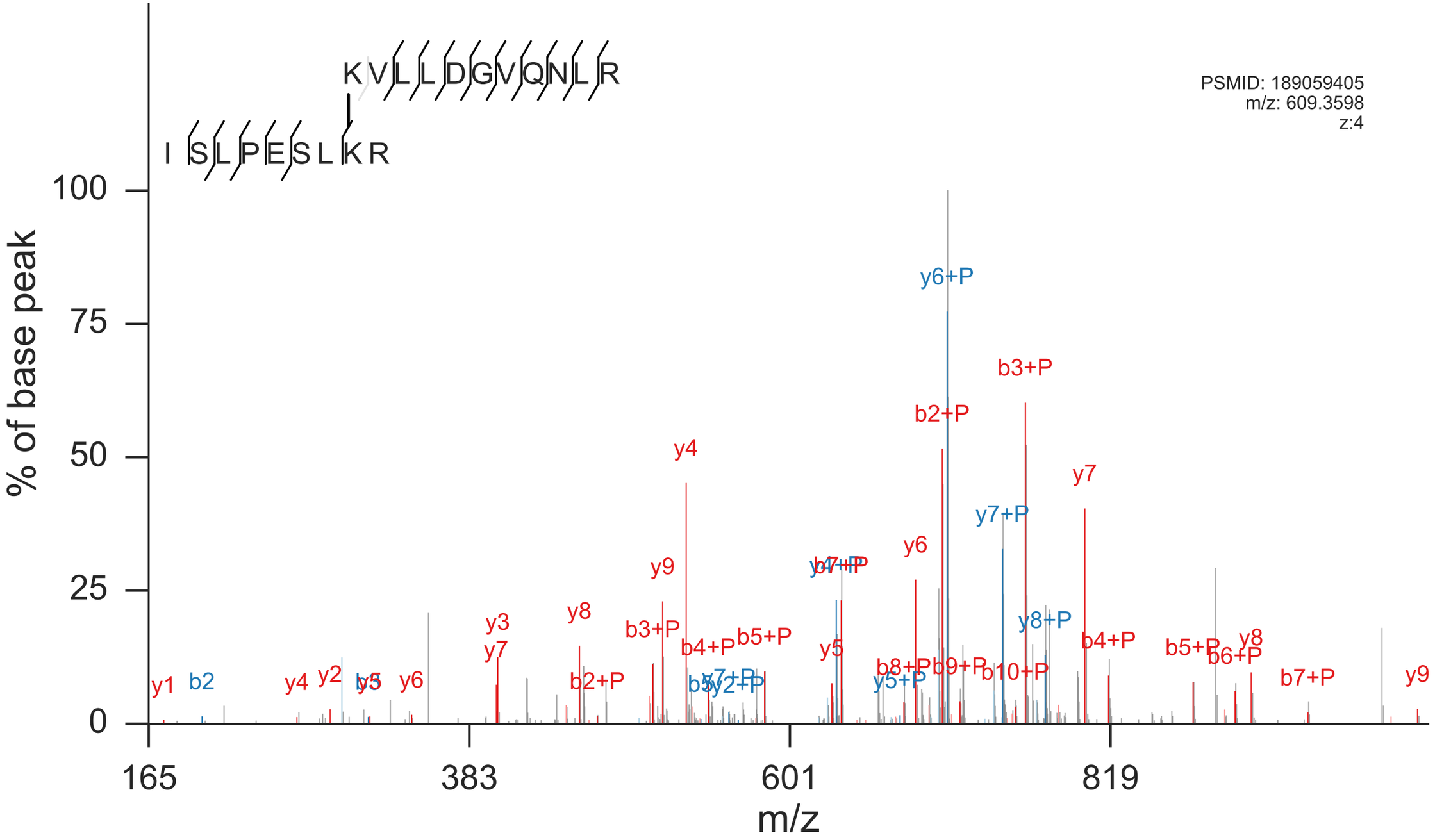

L V K V Q L S N D F D E Y I M A I E Q T I K
E A L K L E E K K
PSMID: 188955452
m/z: 1274.6863
z:3
% of base peak
100
75
50
25
0
120
656
1192
1728
2264
m/z
y8
y5
y7
y9
y16
y6
y10
y11
y12
y13
y17
y15
y14
y18
y19
b2
y1
y3
y4
b5
b6
b3+P
b5+P
b6+P
b4+P
y2
b3
b4
y7
y5+P
b5+P
y20+P
b6+P

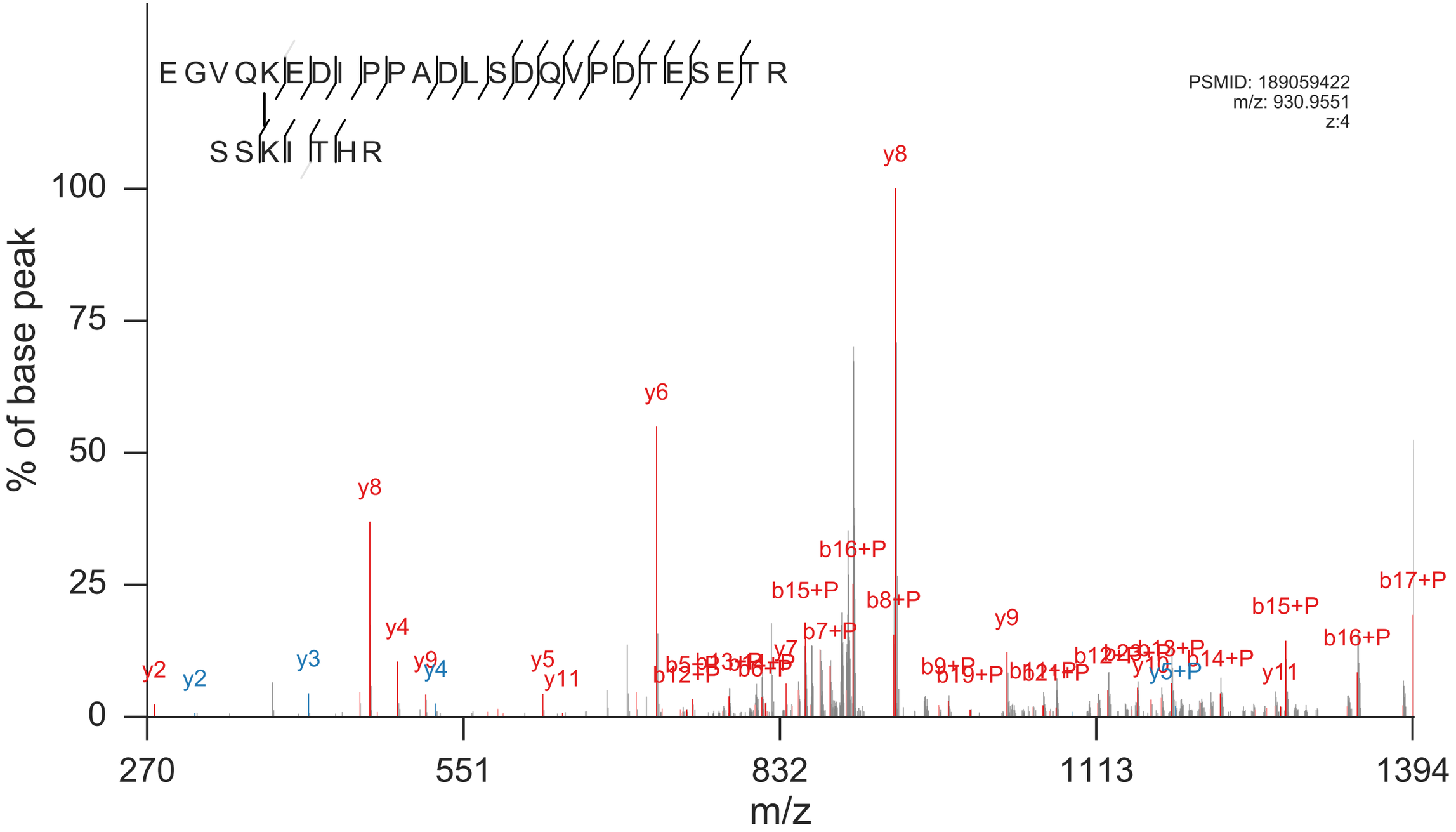

bs3oh
S V Q L T E K R
M D K V G K Y P K
PSMID: 188955605
m/z: 773.7537
z:3
% of base peak
100
75
50
25
0
240
454
668
882
m/z
y4+P
y5+P
y7+P
y6+P
y7+P
y3+P
y6+P
y5
b4
y6
b3+P
b1
y3
b3
b4+P
y7+P
b7+P
y8+P

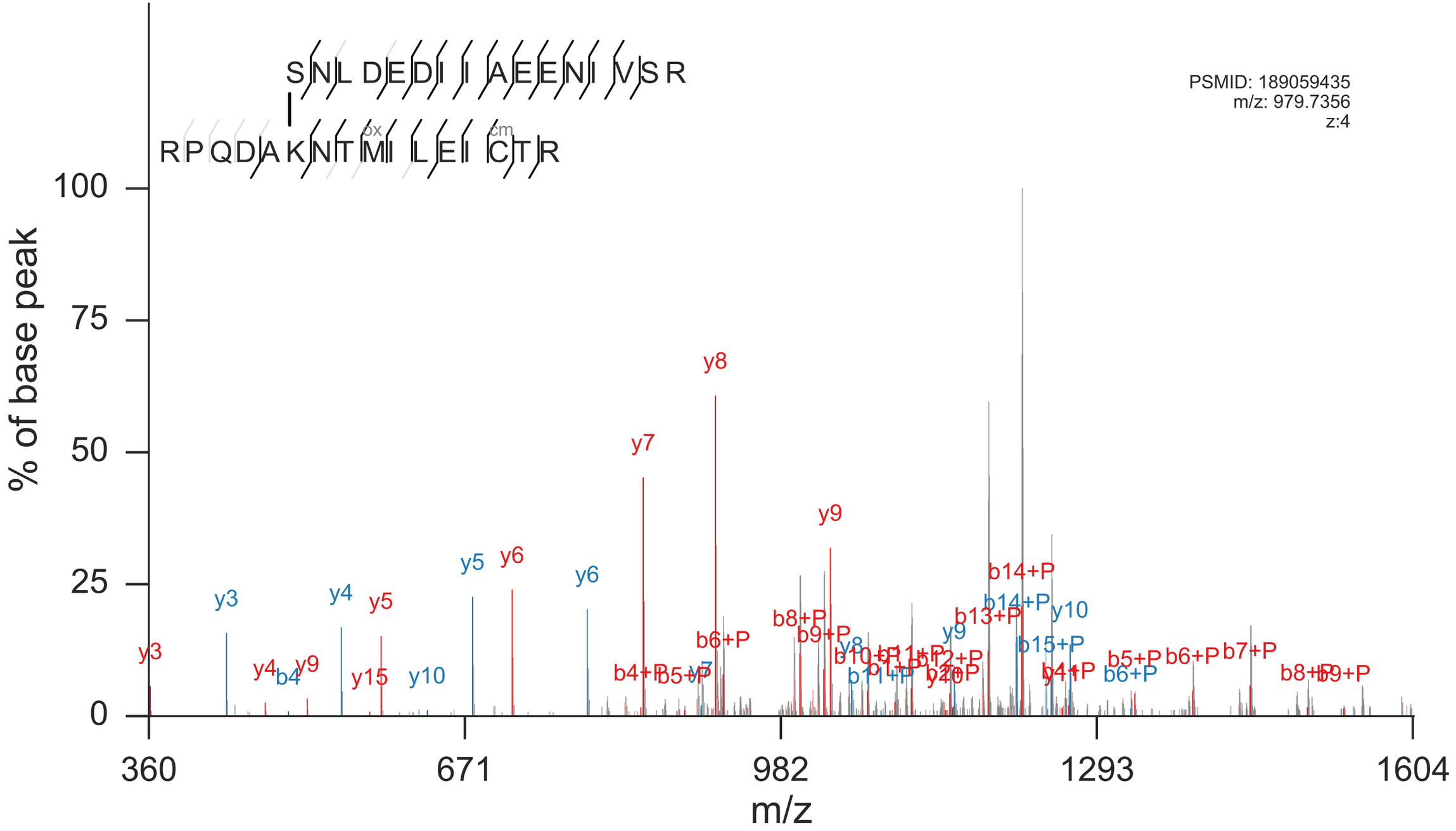

VFSLAVNLIAIDSQVLCGAVKMLILEK
cm
DIYCEEQVNSLPGSITKAGDFLEANYMNLQR
cm
ox
PSMID: 188955657
m/z: 1313.8819
z:5
% of base peak
100
75
50
25
0
120
604
1088
1572
m/z
y1
b2
y2
b3
y3
y4
b5
y5
b6
y6
b7
b8
y8
b9
b10
y10
b11
y11
b12
y12
b13
y13
b14
y14
b15
b23+P
b28+P

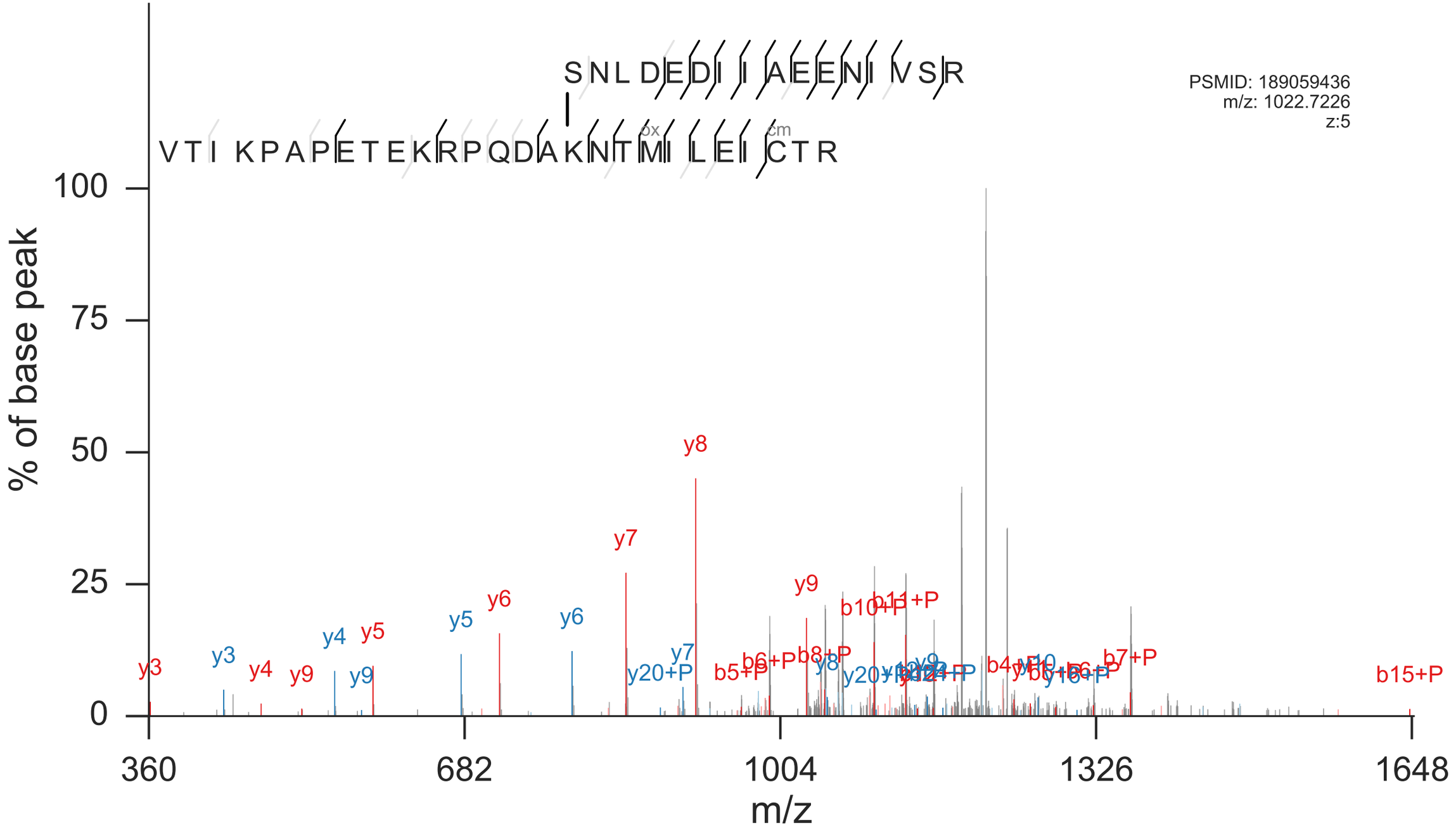

EYVLPSFEVIVEPTEKFYYIYNEK
GVFVLNKK
PSMID: 188955684
m/z: 1347.7085
z:3
% of base peak
100
75
50
25
0
120
784
1448
2112
m/z
b2
b3
y4
y12+P
y20+P
y5
y6
y7
y8
b4
b5
b6
b7
b8
b9
y2
y3
y16+P
y17+P
y18+P
y19+P
y21+P
y12+P
y13+P

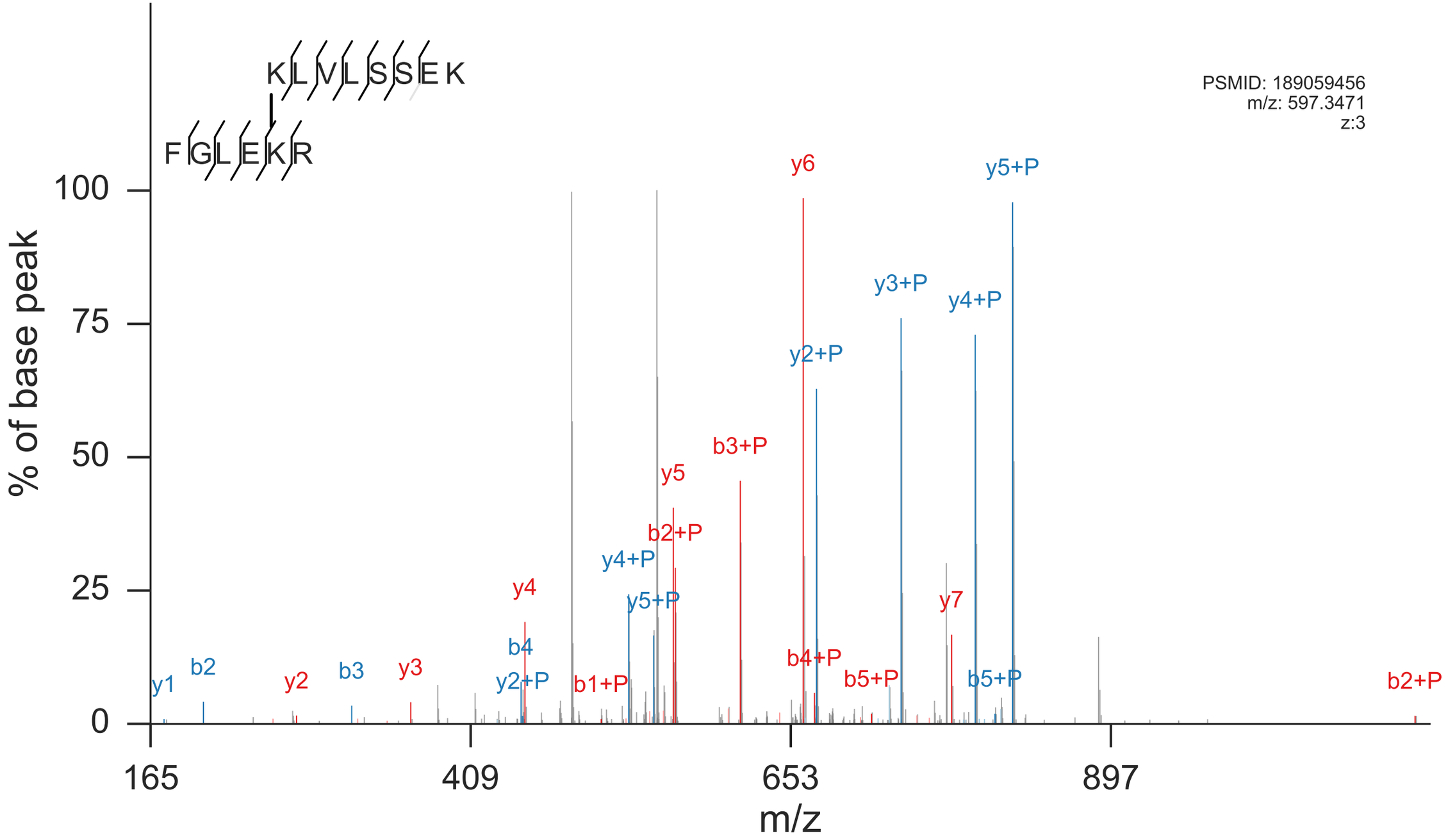

cmcm
K C C E D G M R
Y P K E L R
PSMID: 188955701
m/z: 666.6406
z:3
% of base peak
100
75
50
25
0
255
503
751
999
m/z
y6
y5+P
y3
b4+P
y2
b5+P
y4+P
b2+P
y5
y5+P
y3
b3+P
y4
y7
y6
b4+P
b7+P
y4+P
b1+P
b3+P
b2
y2
b2+P

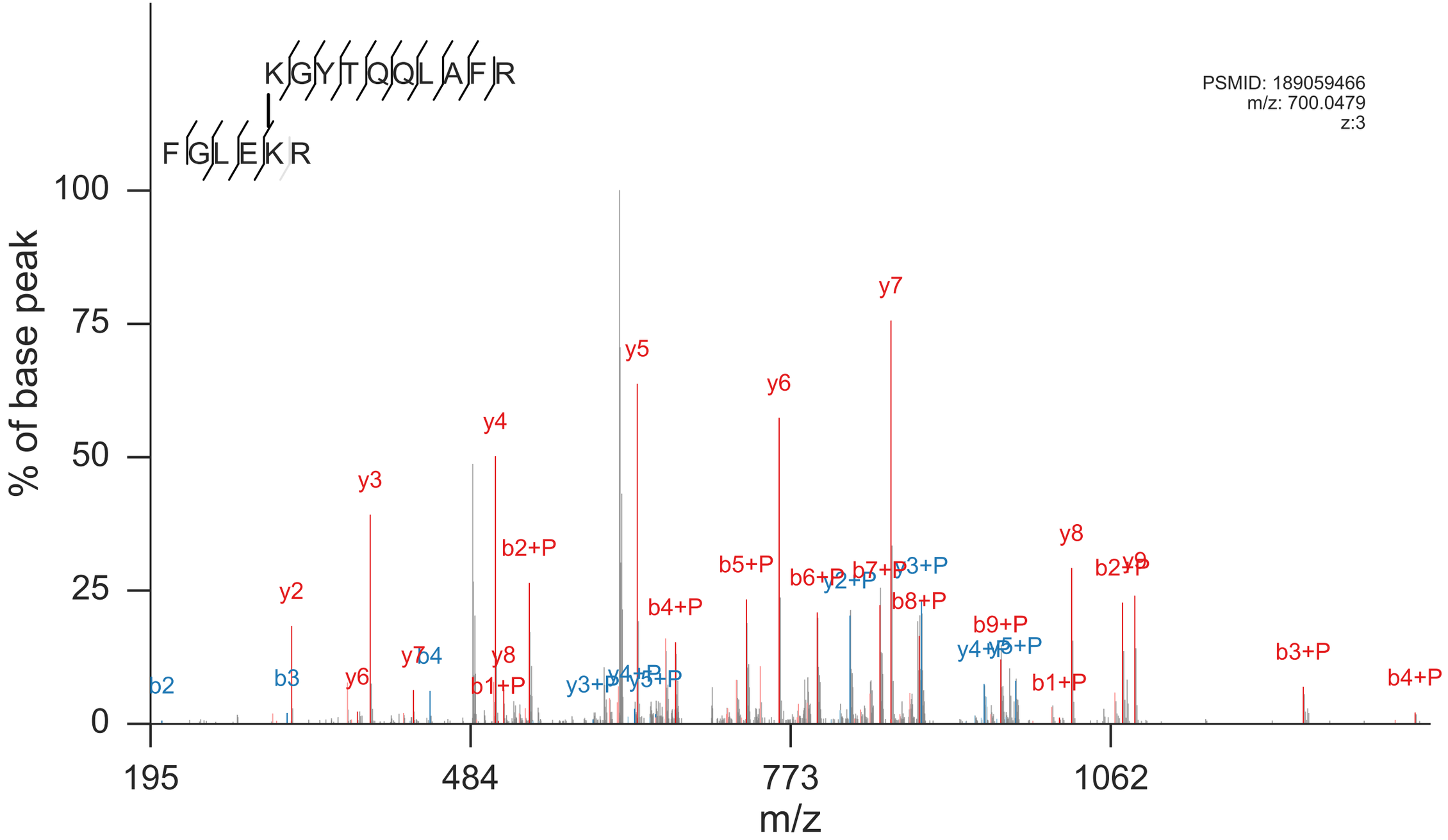

K V L L D G V Q N L R
I S L P E S L K R
PSMID: 189059405
m/z: 609.3598
z:4
% of base peak
100
75
50
25
0
165
383
601
819
m/z
y6+P
b3+P
b2+P
y4
y7
y7+P
y6
y9
y8+P
y3
y8
b3+P
b4+P
b5+P
y5
b8+P
b9+P
b10+P
y5+P
b4+P
b5+P
y8
b6+P
b7+P
y9
y1
b2
y4
y2
y5
y6
b2+P
y7
y5

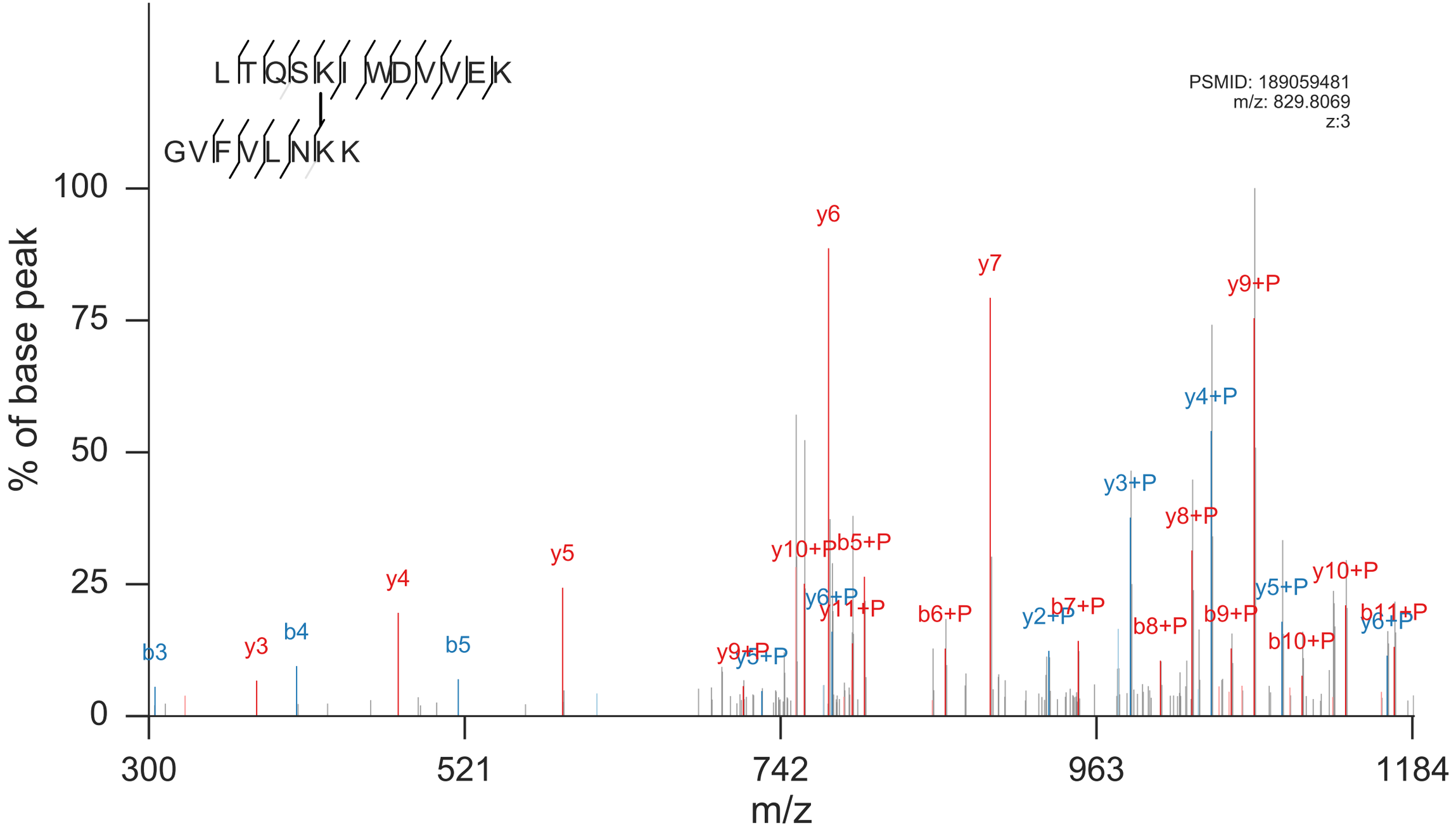

E G V Q K E D I P P A D L S D Q V P D T E S E T R
S S K I T H R
PSMID: 189059422
m/z: 930.9551
z:4
% of base peak
100
75
50
25
0
270
551
832
1113
1394
m/z
y8
y6
y8
b16+P
b15+P
b8+P
b17+P
y4
y9
b7+P
y9
b15+P
b16+P
y2
y2
y3
y9
y4
y5
y11
y7
b14+P
y11
y5+P

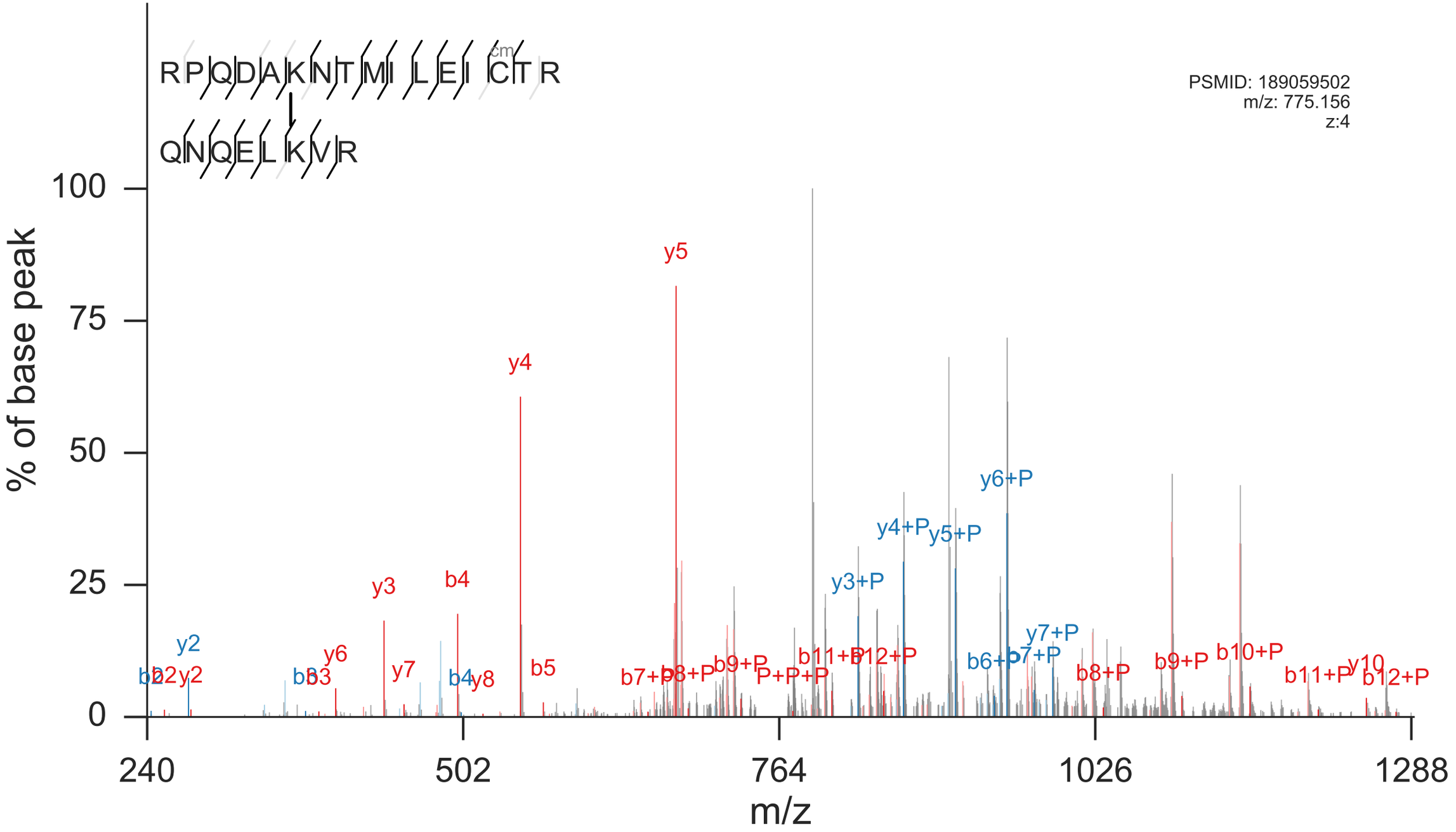

SNLDEDIIAEENIVSR
RPQDAKNTMILEICTR
ox
cm
PSMID: 189059435
m/z: 979.7356
z:4
% of base peak
100
75
50
25
0
360
671
982
1293
1604
m/z
y8
y7
y9
y5
y6
y6
y3
y4
y5
y3
y4
b4
y9
y15
y10
b14+P
b14+P
y10
b13+P
b8+P
b9+P
b6+P
y9
y8
b15+P
b5+P
b6+P
b7+P
b6+P
b8+P
b9+P

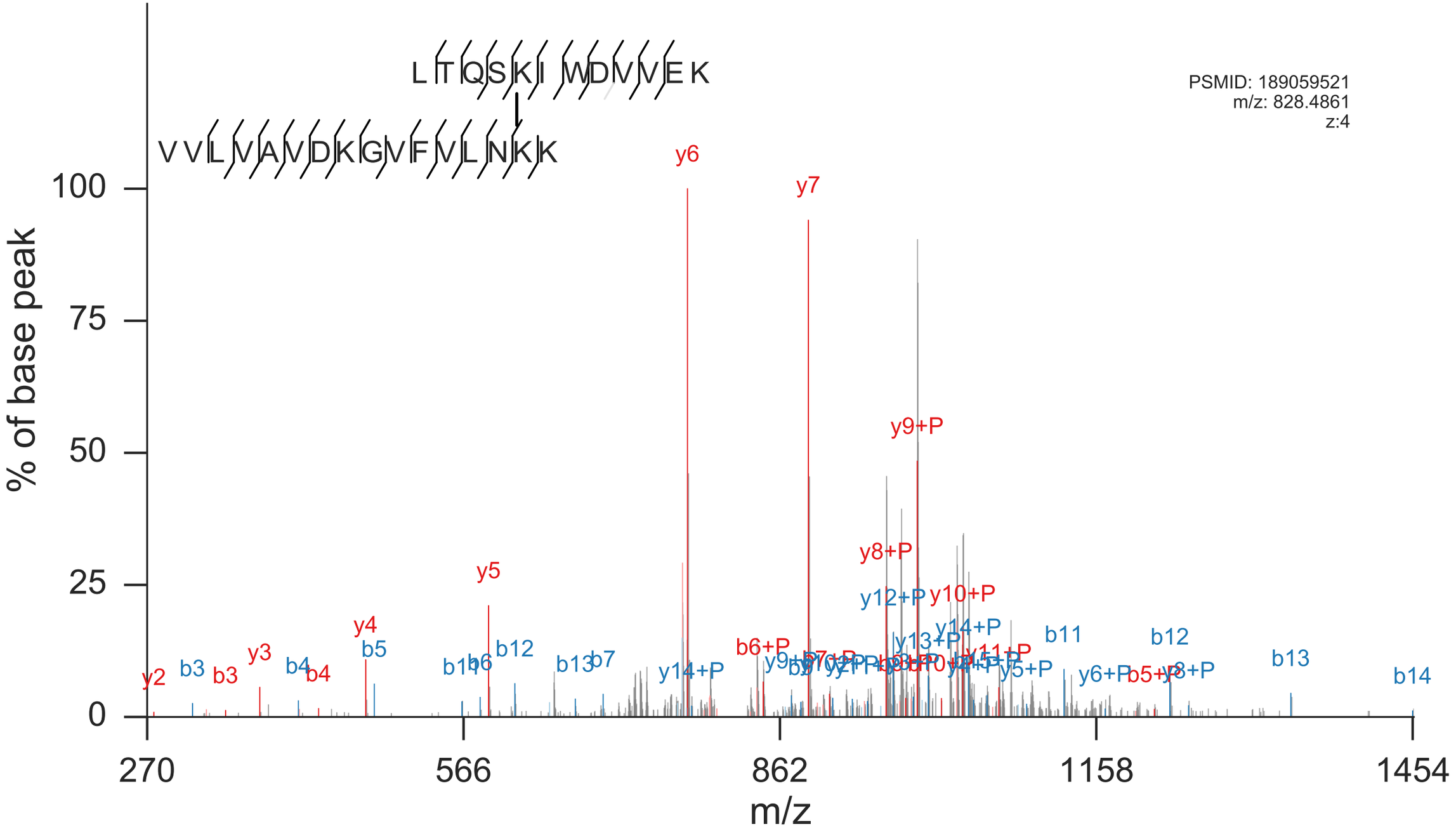

SNLDEDIIAEENIVSR
VTIKPAPETEKRPQDAKNTMILEICTR
ox
cm
PSMID: 189059436
m/z: 1022.7226
z:5
% of base peak
100
75
50
25
0
360
682
1004
1326
1648
m/z
y8
y7
y9
y6
y6
y5
y5
y4
y5
y3
y3
y4
y9
y9
y7
y20+P
b5+P
b6+P
b8+P
y8
b10+P
b11+P
b7+P
b15+P

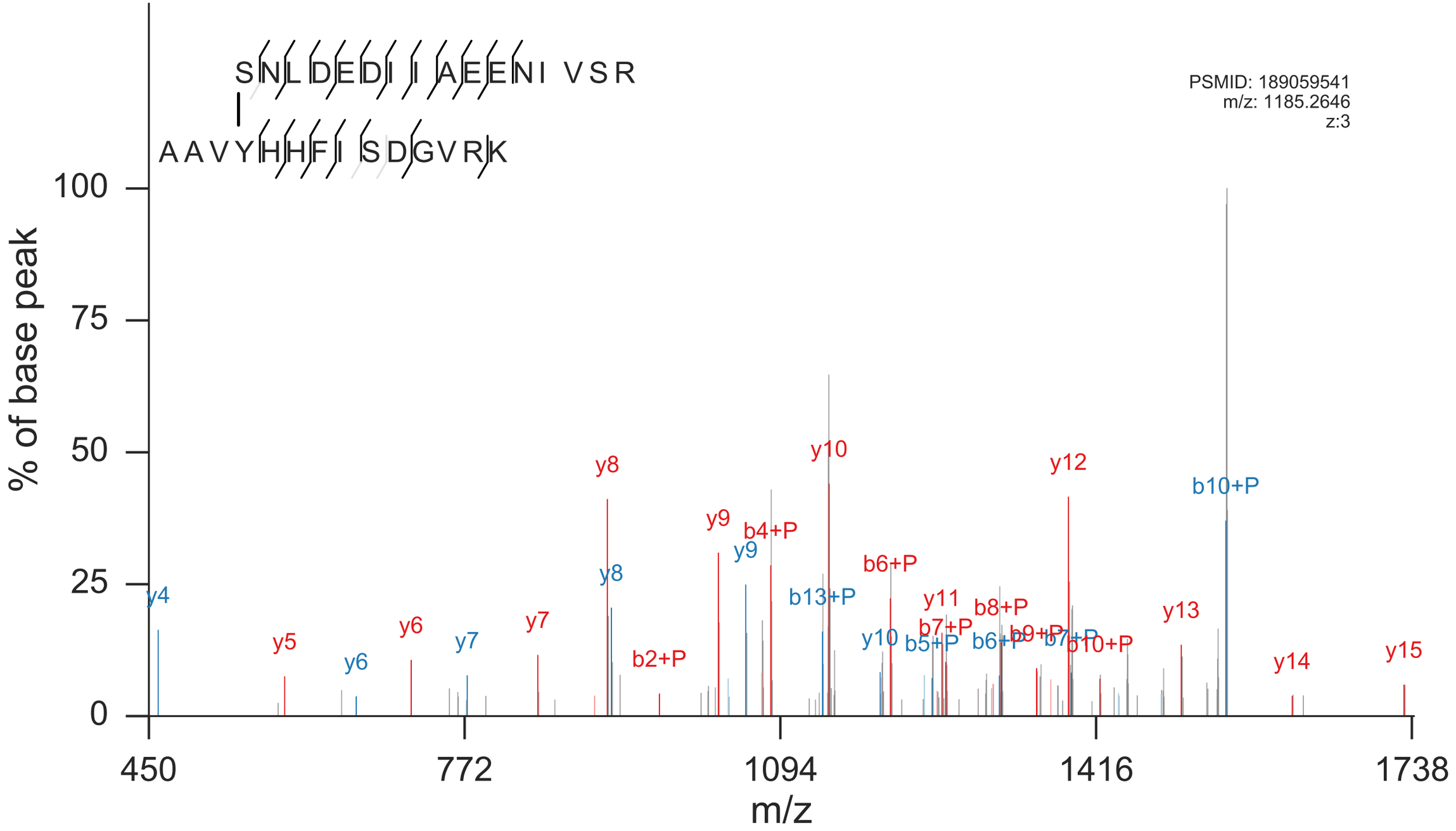

K L V L S S E K
F G L E K R
PSMID: 189059456
m/z: 597.3471
z:3
% of base peak
100
75
50
25
0
165
409
653
897
m/z
y6
y5+P
y3+P
y4+P
y2+P
b3+P
y5
b2+P
y4+P
y4
y5+P
b4
b4+P
b5+P
b5+P
y7
b2+P
y1
b2
y2
b3
y3
y2+P
b1+P

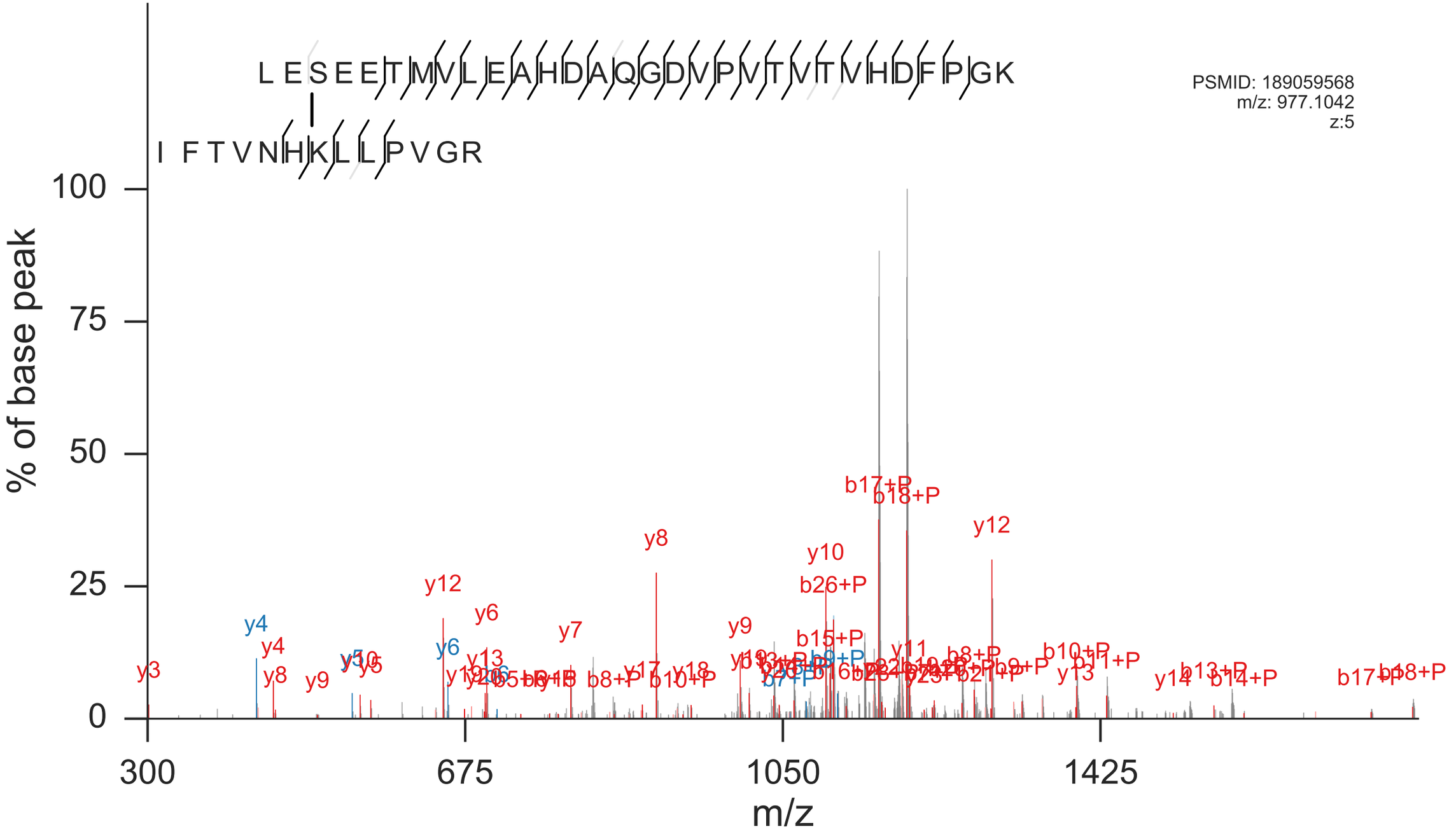

K G Y T Q Q L A F R
F G L E K R
PSMID: 189059466
m/z: 700.0479
z:3
% of base peak
100
75
50
25
0
195
484
773
1062
m/z
y7
y5
y6
y4
y3
y2
b2+P
b5+P
b6+P
y2+P
b7+P3+P
b8+P
b4+P
b9+P
y4+y5+P
y8
b2+P
b3+P
b4+P
b1+P
y3+P
y4+P
y3+P
y7
b4
y8
b1+P
b2
b3
y6

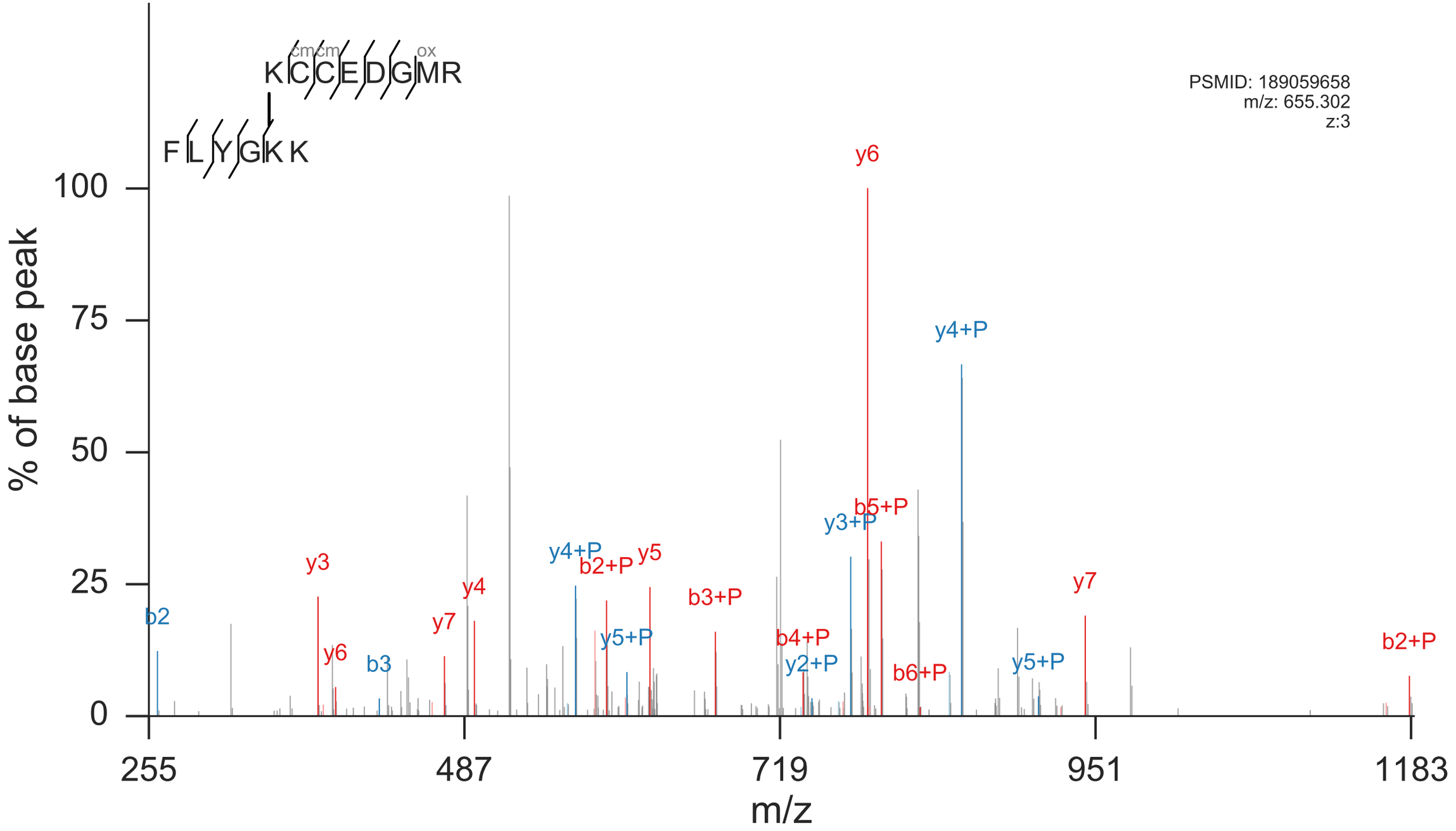

LTQSKIWDVVEK
GVFVLNKK
PSMID: 189059481
m/z: 829.8069
z:3
% of base peak
100
75
50
25
0
300
521
742
963
1184
m/z
b3
y3
b4
y4
b5
y5
y9+P
y5+P
y10+P
b5+P
y6
y6+P
y11+P
b6+P
y7
y2+P
b7+P
y3+P
b8+P
y8+P
y4+P
b9+P
y9+P
y5+P
b10+P
y10+P
b11+P
y6+P

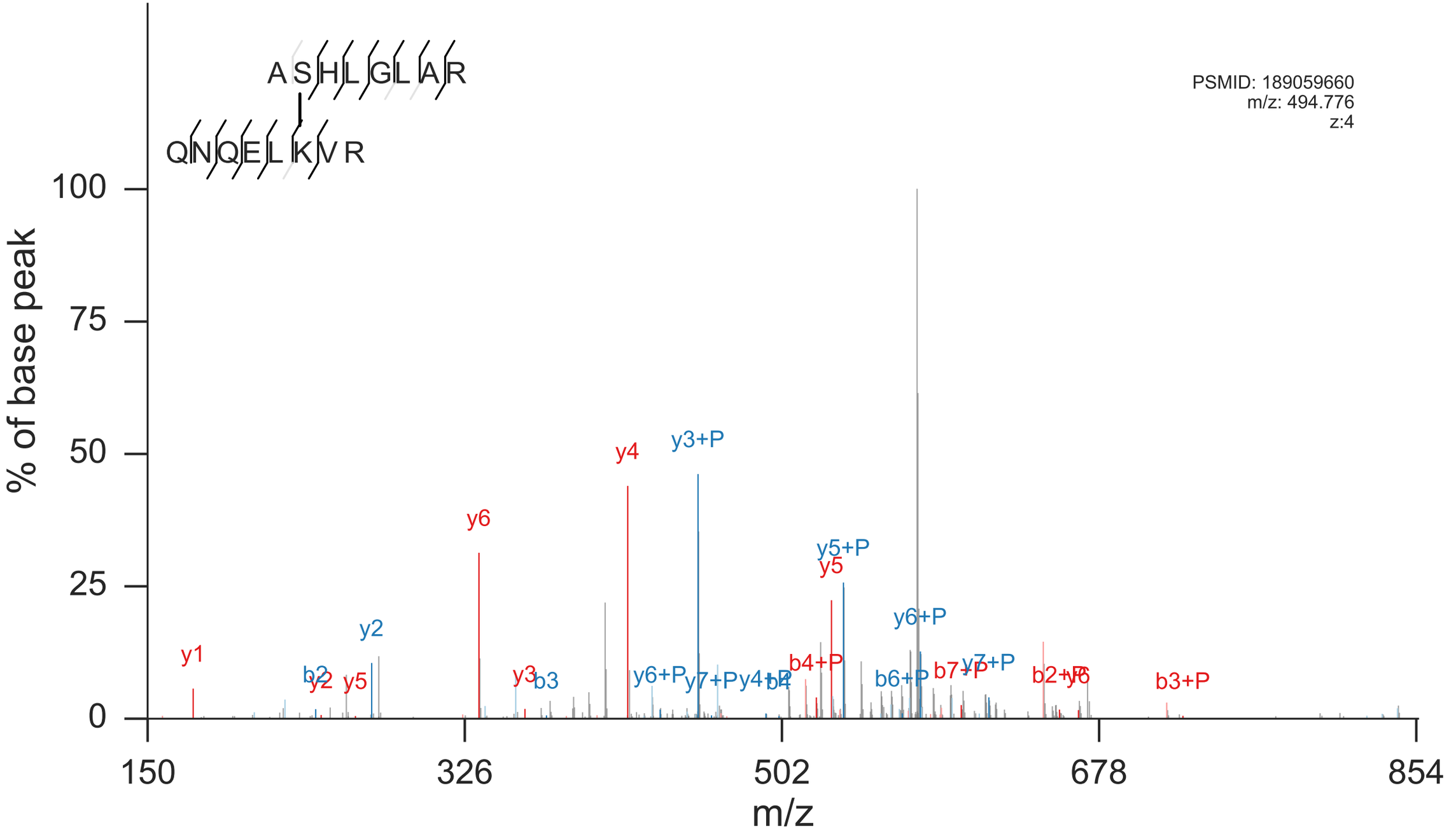

RPQDAKNTMILEICTR
QNQELKVR
cm
PSMID: 189059502
m/z: 775.156
z:4
% of base peak
100
75
50
25
0
240
502
764
1026
1288
m/z
y5
y4
y6+P
y4+P
y5+P
y3+P
y3
b4
y2
b2
y6
b3
y7
b4
y8
b5
b7+P
b8+P
b9+P
P+P+P
b11+P
b12+P
y7+P
b6+P
b8+P
b9+P
b10+P
b11+P
y10
b12+P

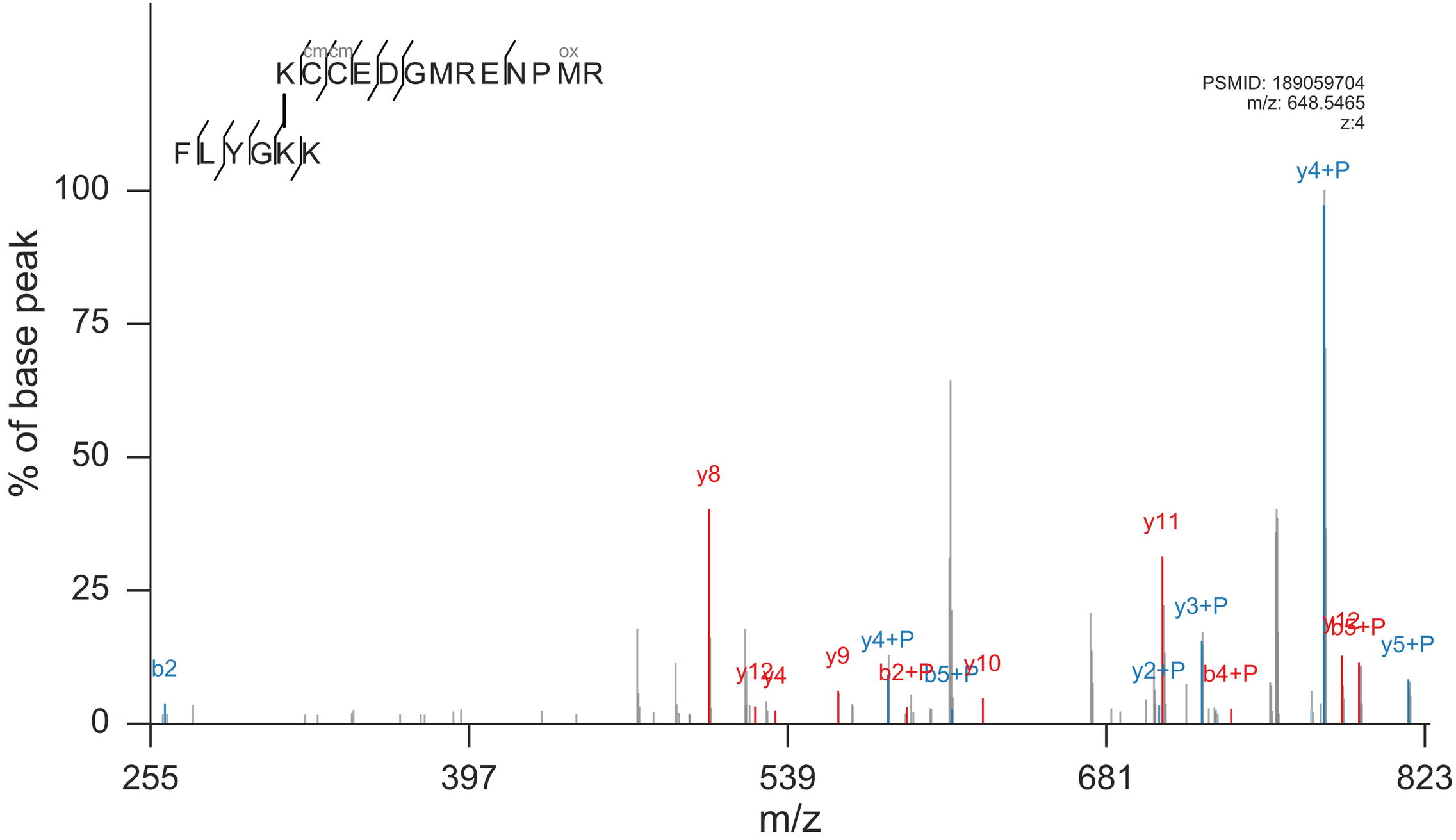

LITQSKIWDVVEK
VVLVAVDKGVFVLNKK
PSMID: 189059521
m/z: 828.4861
z:4
% of base peak
100
75
50
25
0
270
566
862
1158
1454
m/z
y6
y7
y9+P
y8+P
y12+P
y10+P
y14+P
y13+P
y5
y4
y3
y2
b3
b4
b5
b6
b12
b13
b7
b11
b14
y14+P
b6+P
y5+P
y6+P
b8+P

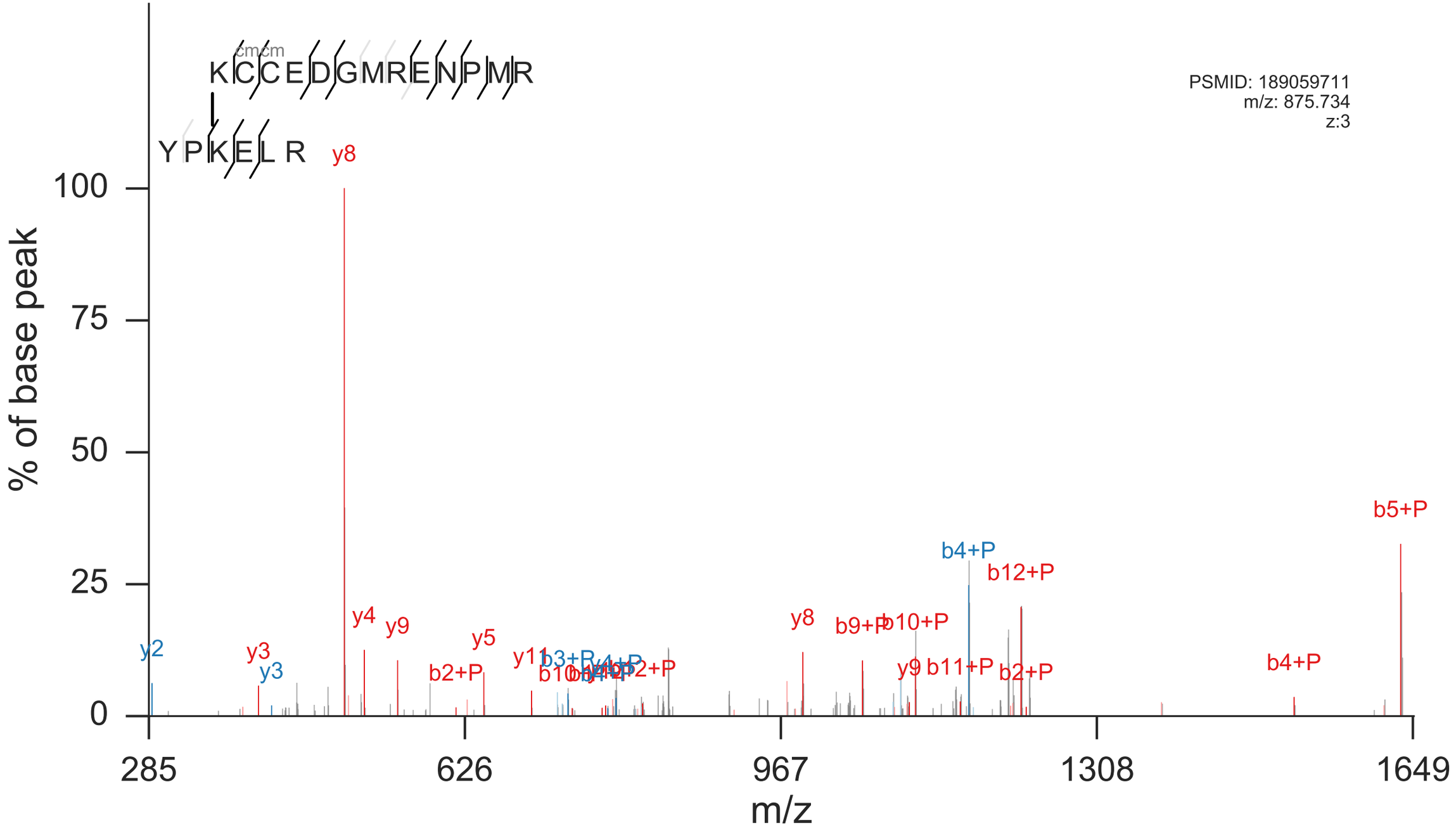

SNLDEDIIAEENIVSR
AAVYHHFISDGVRK
PSMID: 189059541
m/z: 1185.2646
z:3
% of base peak
100
75
50
25
0
450
772
1094
1416
1738
m/z
y4
y5
y6
y6
y7
y7
y8
y8
b2+P
y9
b4+P
y9
y10
b6+P
b13+P
y10
b5+P
y11
b7+P
b8+P
b6+P
b9+P
b7+P
b10+P
y12
y13
b10+P
y14
y15

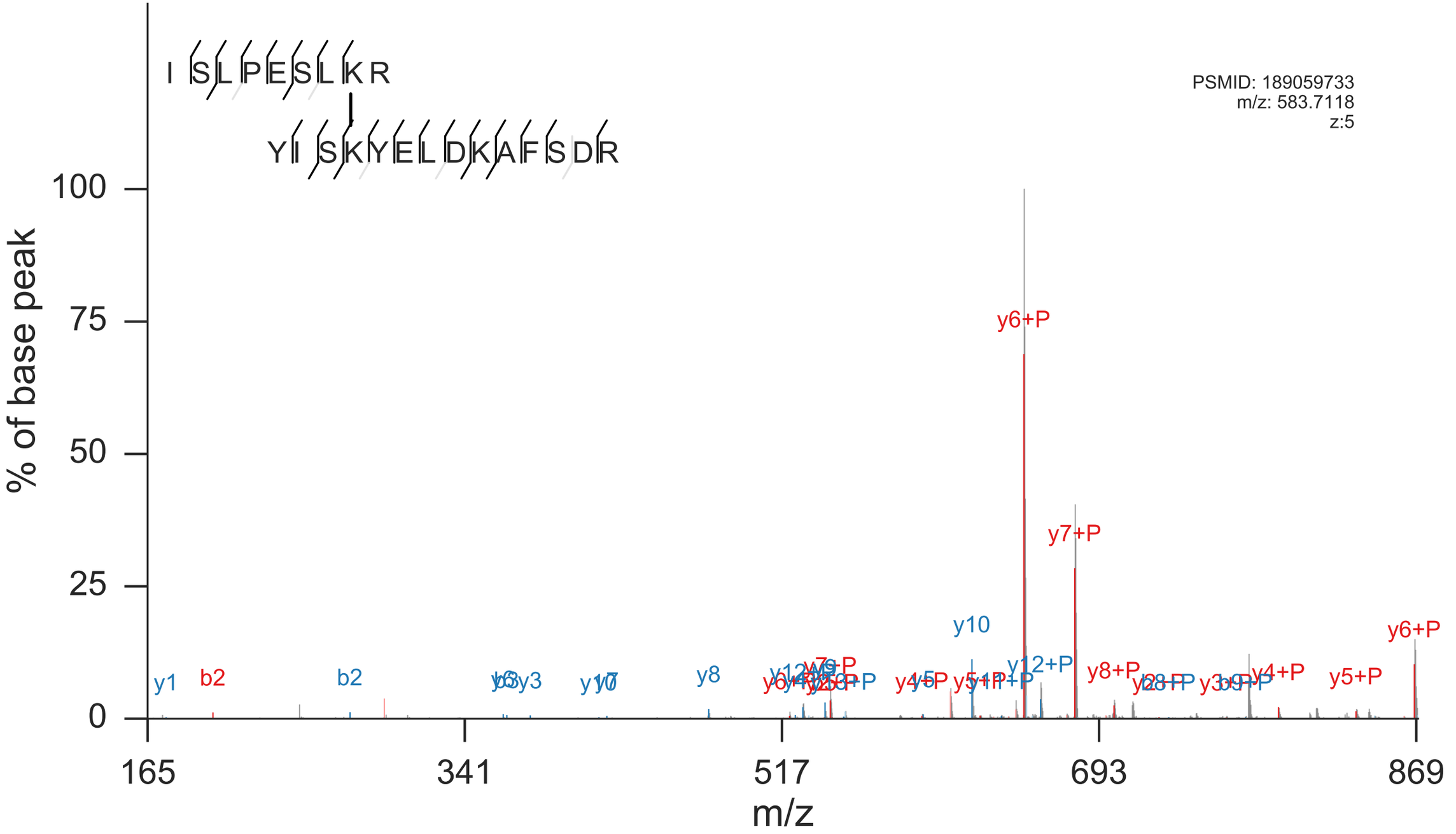

L E S E E T M V L E A H D A Q G D V P V T V T V H D F P G K
I F T V N H K L L P V G R
PSMID: 189059568
m/z: 977.1042
z:5
% of base peak
100
75
50
25
0
300
675
1050
1425
m/z
y3
y4
y4
y8
y9
y5
y6
y6
y12
y13
y7
y8
y12
y6
y10
b26+P
b17+P
b18+P
y9
b15+P
y11
b8+P
b10+P
y13
b11+P
y14
b13+P
b14+P
b17+P
b18+P

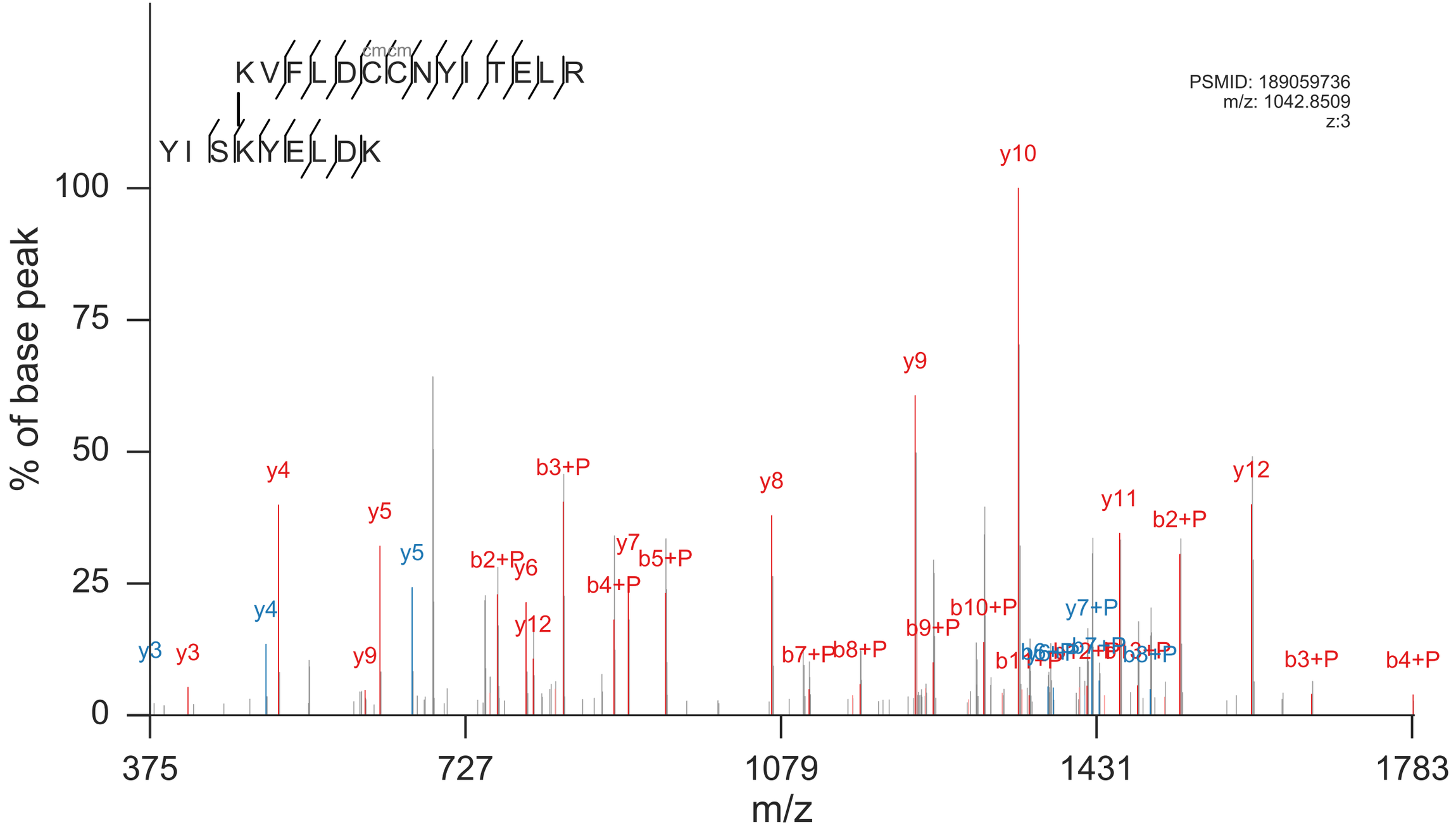

cmcm
ox
KCCEDGMR
FLYGKK
PSMID: 189059658
m/z: 655.302
z:3
% of base peak
100
75
50
25
0
255
487
719
951
1183
m/z
y6
y4+P
b5+P
y3+P
y3
y4+P
b2+P
y5
y4
y7
b3+P
b2
y7
y5+P
b4+P
y6
b3
y2+P
b6+P
y5+P
b2+P

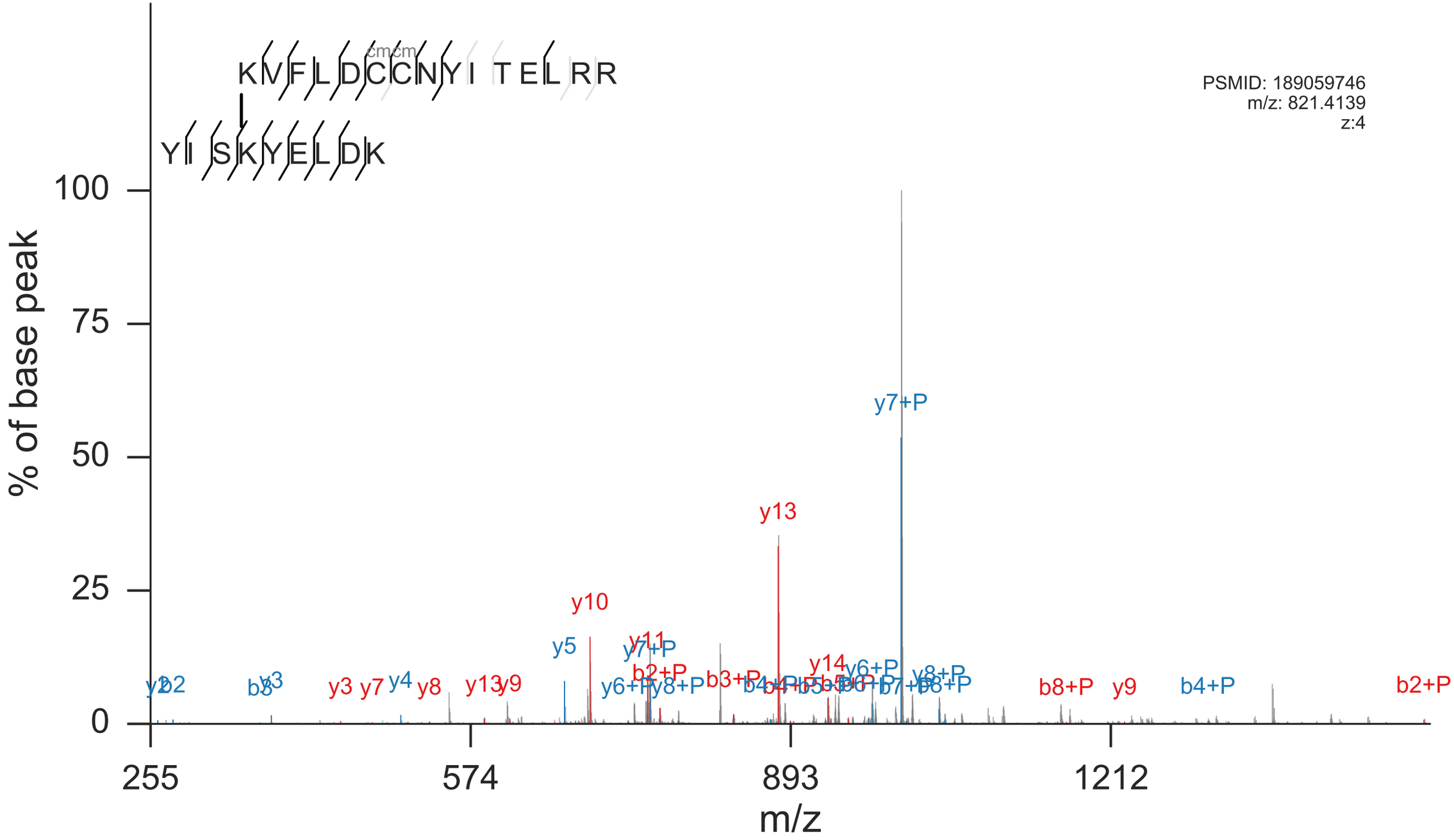

A S H L G L A R
Q N Q E L K V R
PSMID: 189059660
m/z: 494.776
z:4
% of base peak
100
75
50
25
0
150
326
502
678
854
m/z
y1
y2
b2
y2
y5
y6
y3
b3
y4
y3+P
y6+P
y7+P
y4+P
b4
b4+P
y5+P
y5
b6+P
y6+P
b7+P
y7+P
b2+P
y6
b3+P

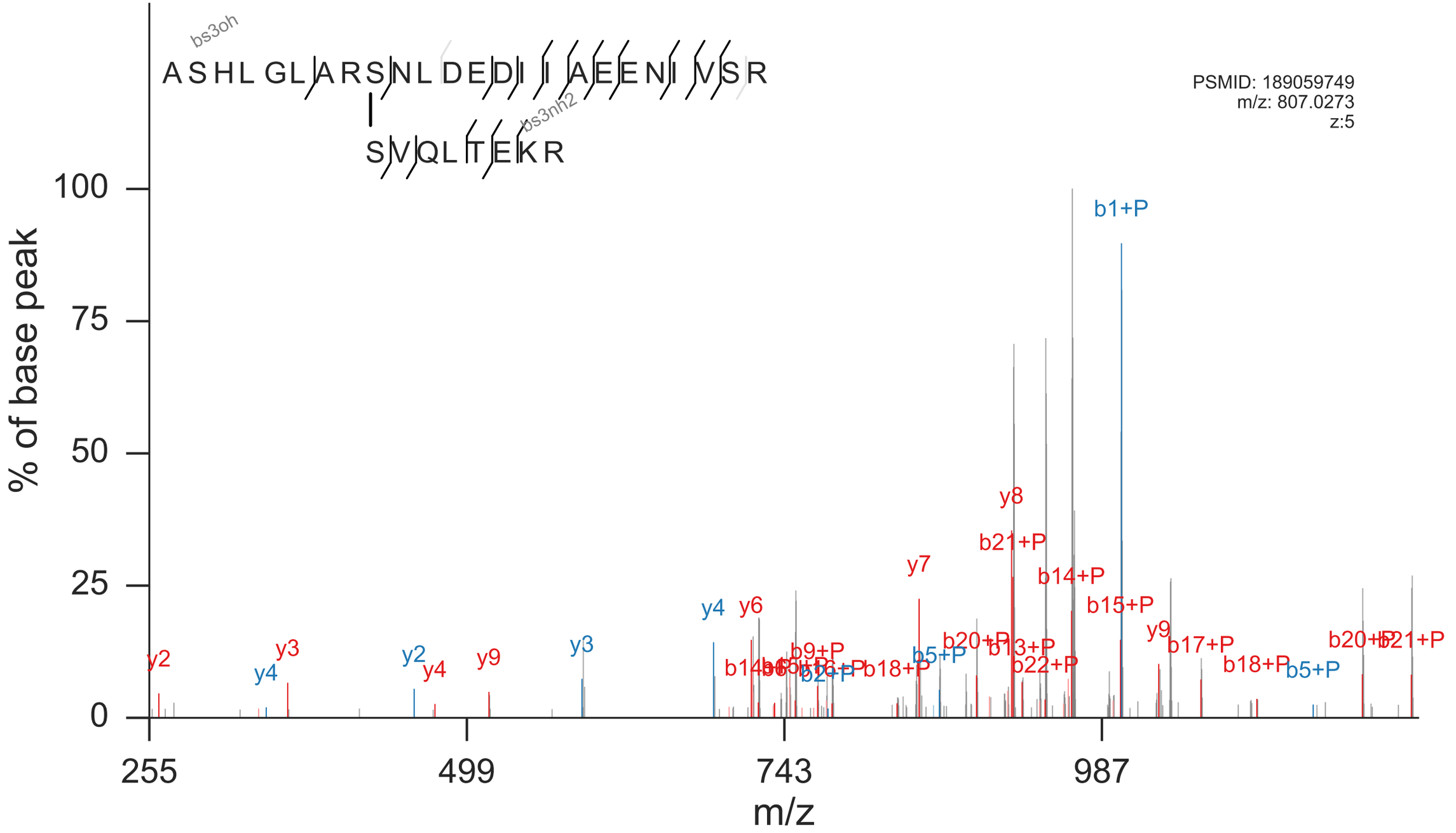

KCmCmCEDGMREoxNPMR
FLYGKK
PSMID: 189059704
m/z: 648.5465
z:4
% of base peak
100
75
50
25
0
255
397
539
681
823
m/z
y4+P
y8
y11
y3+P
y12
y5+P
y4+P
y9
y10
b2
y12
y4
b2+P
b5+P
y2+P
b4+P

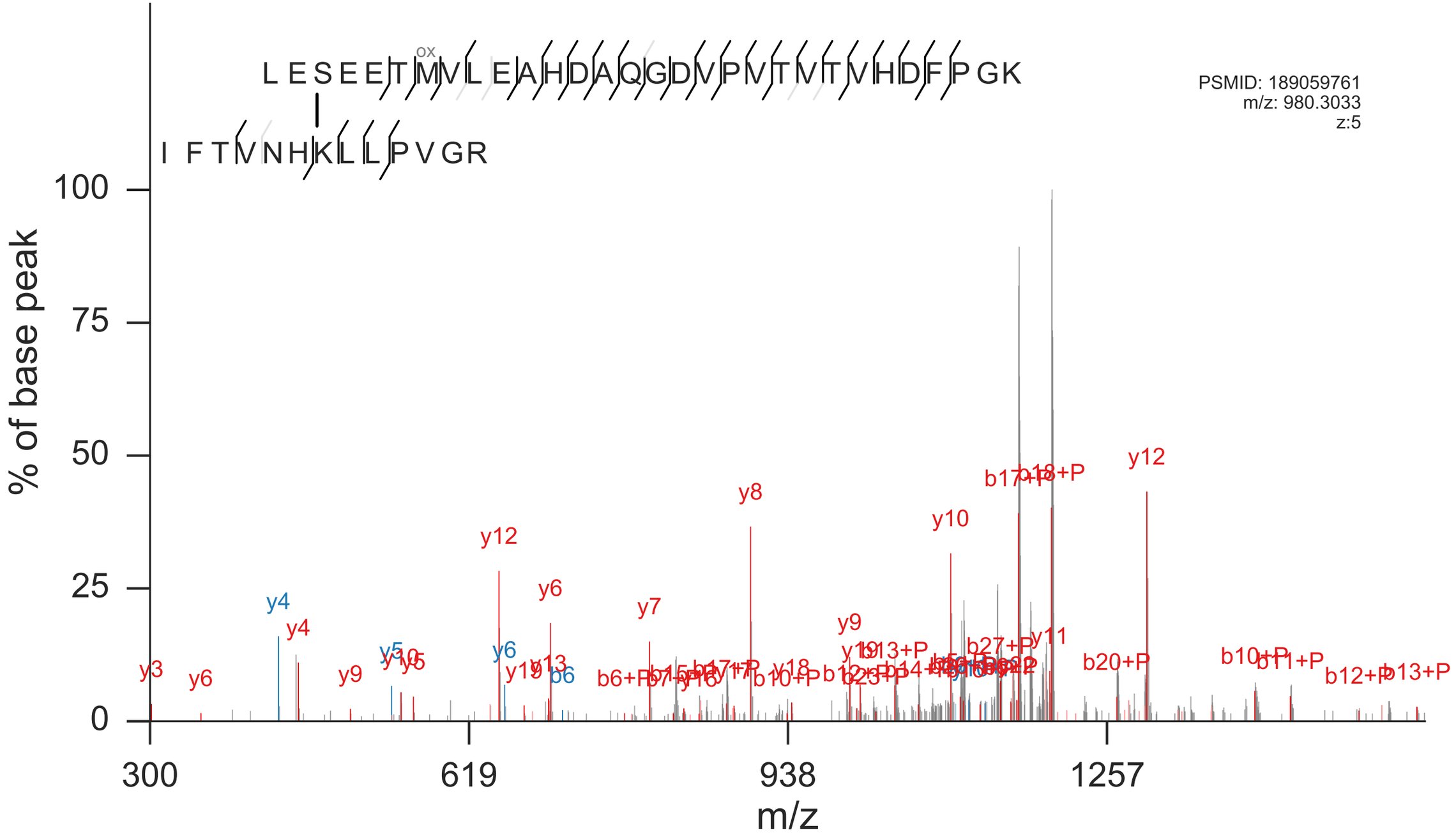

cmcm
K C C E D G M R E N P M R
Y P K E L R
PSMID: 189059711
m/z: 875.734
z:3
% of base peak
100
75
50
25
0
285
626
967
1308
1649
m/z
y8
y4
y9
y5
y2
y3
y3
b2+P
y11
b3+R
y4+P
b10
b4+P
2+P
y8
b9+P
b10+P
b4+P
b12+P
y9
b11+P
b2+P
b5+P
b4+P

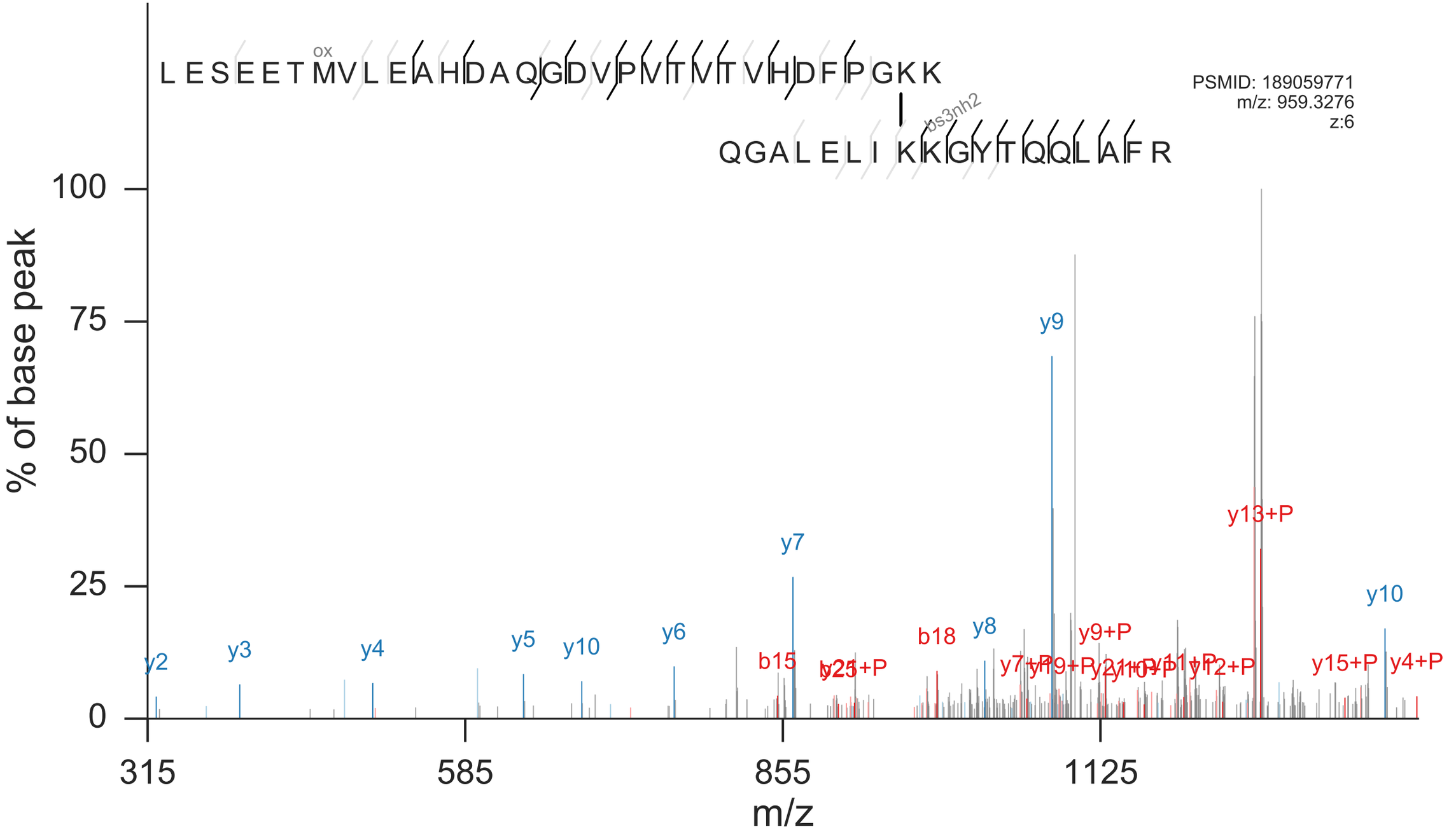

I S L P E S L K R
Y I S K Y E L D K A F S D R
PSMID: 189059733
m/z: 583.7118
z:5
% of base peak
100
75
50
25
0
165
341
517
693
869
m/z
y6+P
y7+P
y10
y12+P
y8+P
y4+P
y5+P
y1
b2
b2
y8

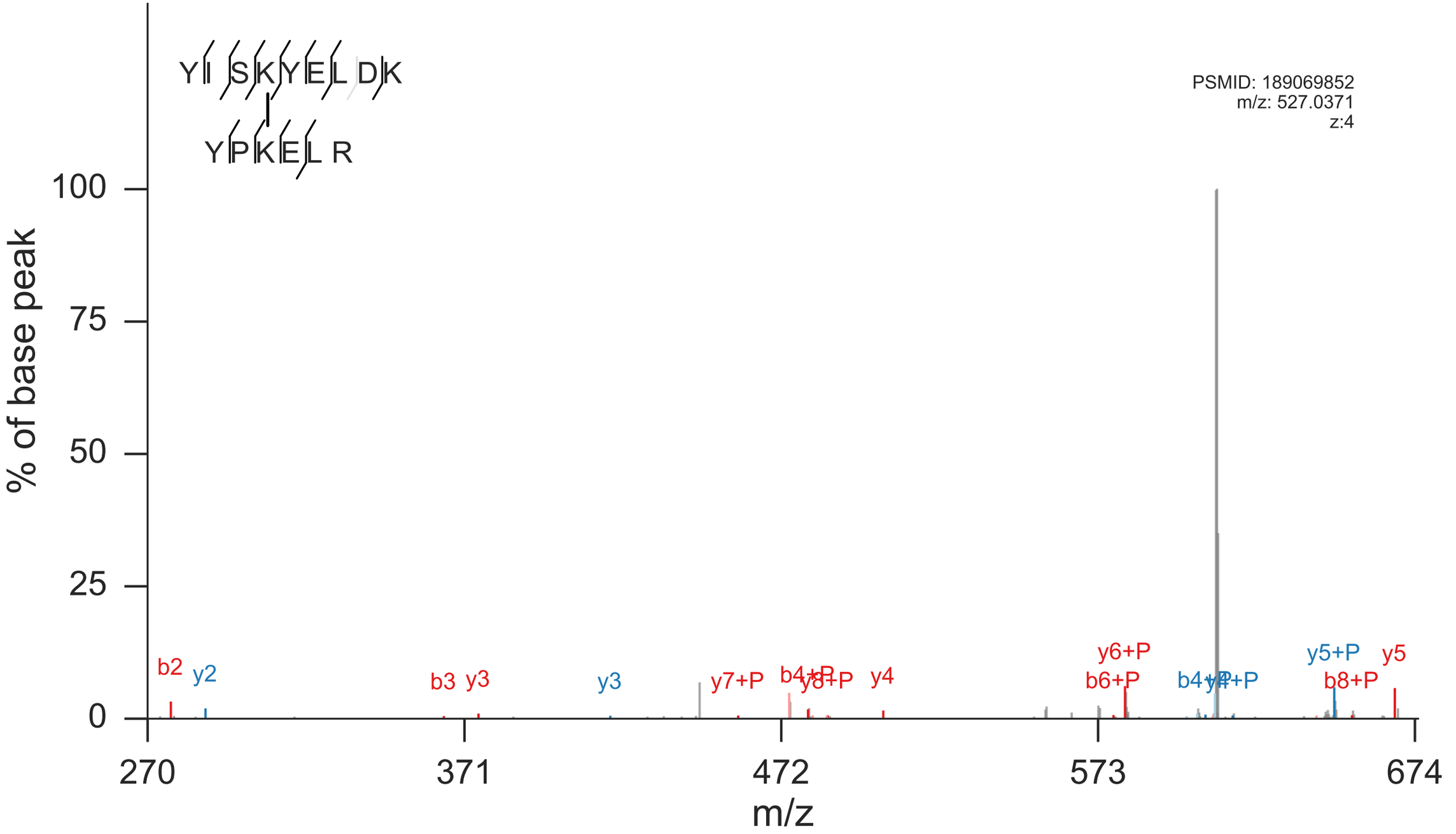

KVFLDCCNYITELR
cmcm
YISKYELDK
PSMID: 189059736
m/z: 1042.8509
z:3
% of base peak
100
75
50
25
0
375
727
1079
1431
1783
m/z
y10
y9
y4
y5
b3+P
y8
y11
b2+P
y12
y7
b5+P
y5
b2+P
y6
b4+P
y4
y12
b10+P
y7+P
b9+P
y3
y3
y9
b7+P
b8+P
b3+P
b4+P

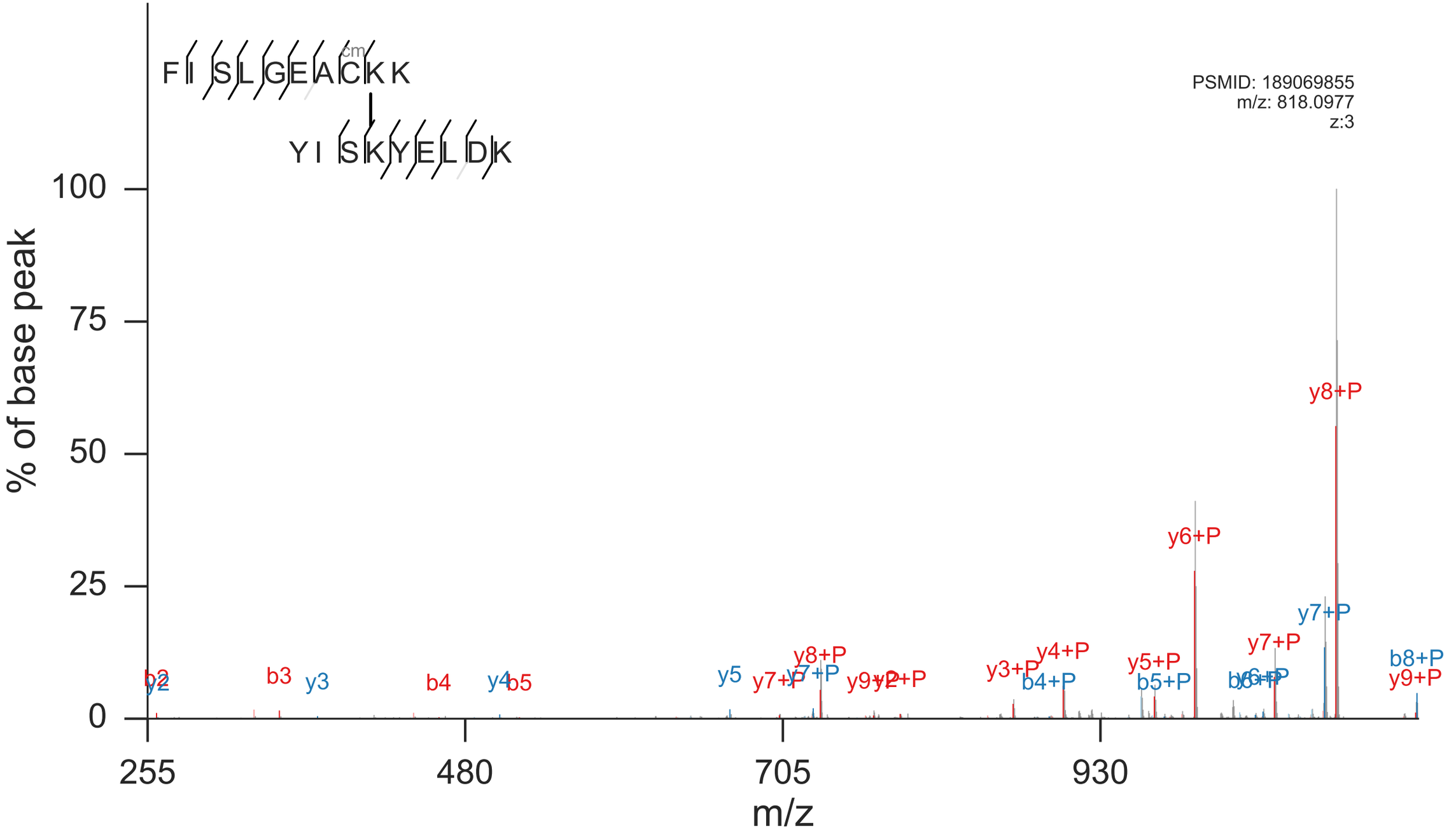

KVFLDCCNYI TELRR
cmcm
YISKYELDK
PSMID: 189059746
m/z: 821.4139
z:4
% of base peak
100
75
50
25
0
255
574
893
1212
m/z
y7+P
y13
y10
y5
y11
y7+P
y14
b2+P
y6+P
y8+P
b3+P
y2
b2
b8
y3
y3
y7
y4
y8
y13
y9
y6+P
y8+P
b8+P
y9
b4+P
b2+P

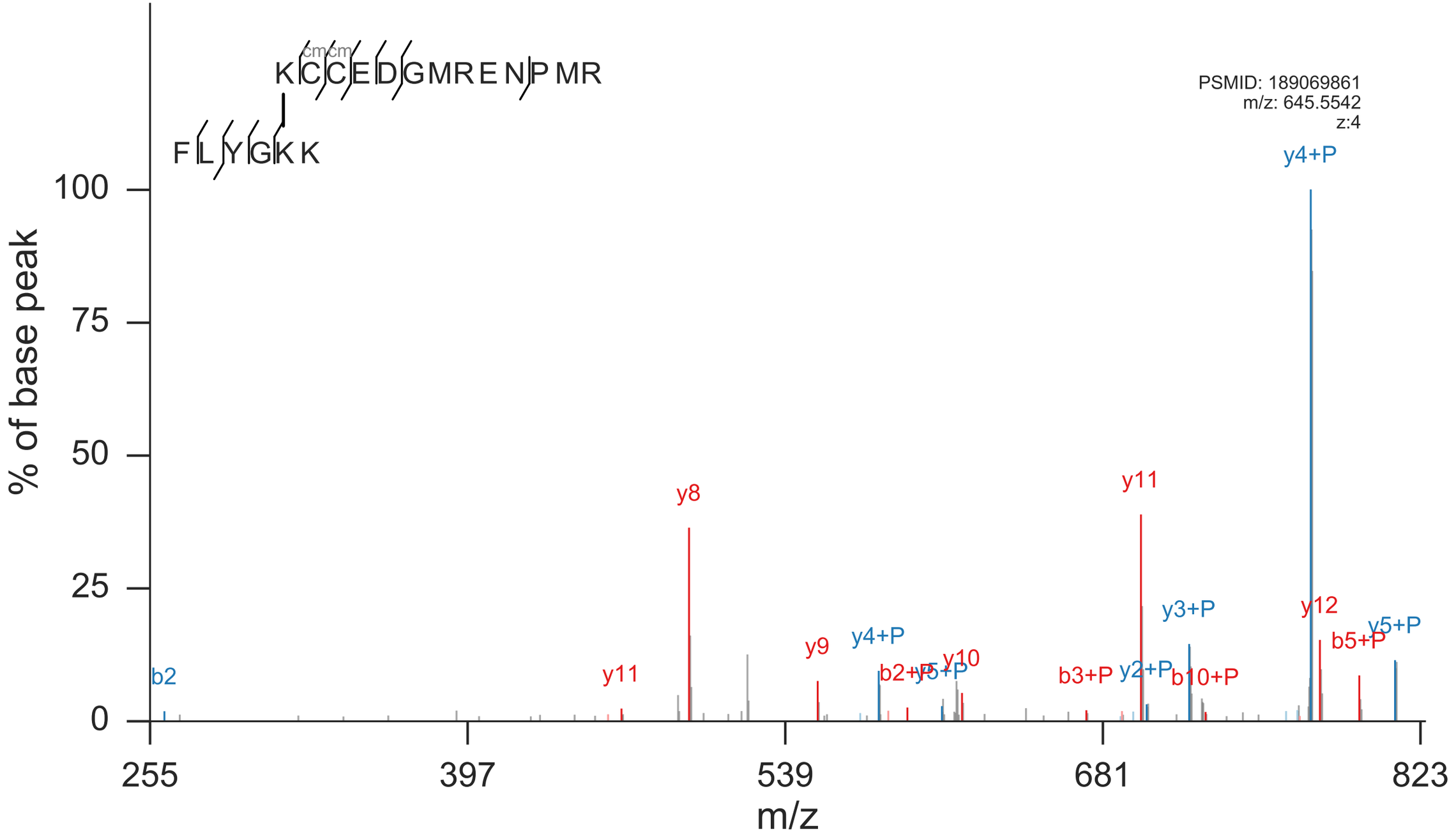

bs3oh
ASHLGLARSNLDEDIIAEENIVSR
bs3nh2
SVQLTEKR
PSMID: 189059749
m/z: 807.0273
z:5
% of base peak
100
75
50
25
0
255
499
743
987
m/z
b1+P
y8
b21+P
y7
b14+P
b15+P
y4
y6
y9
b17+P
b20+P
b21+P
b18+P
b5+P
y2
y3
y4
y2
y4
y9
y3
b9+P
b5+P
b20+P
b13+P
b22+P
b2+P
b18+P

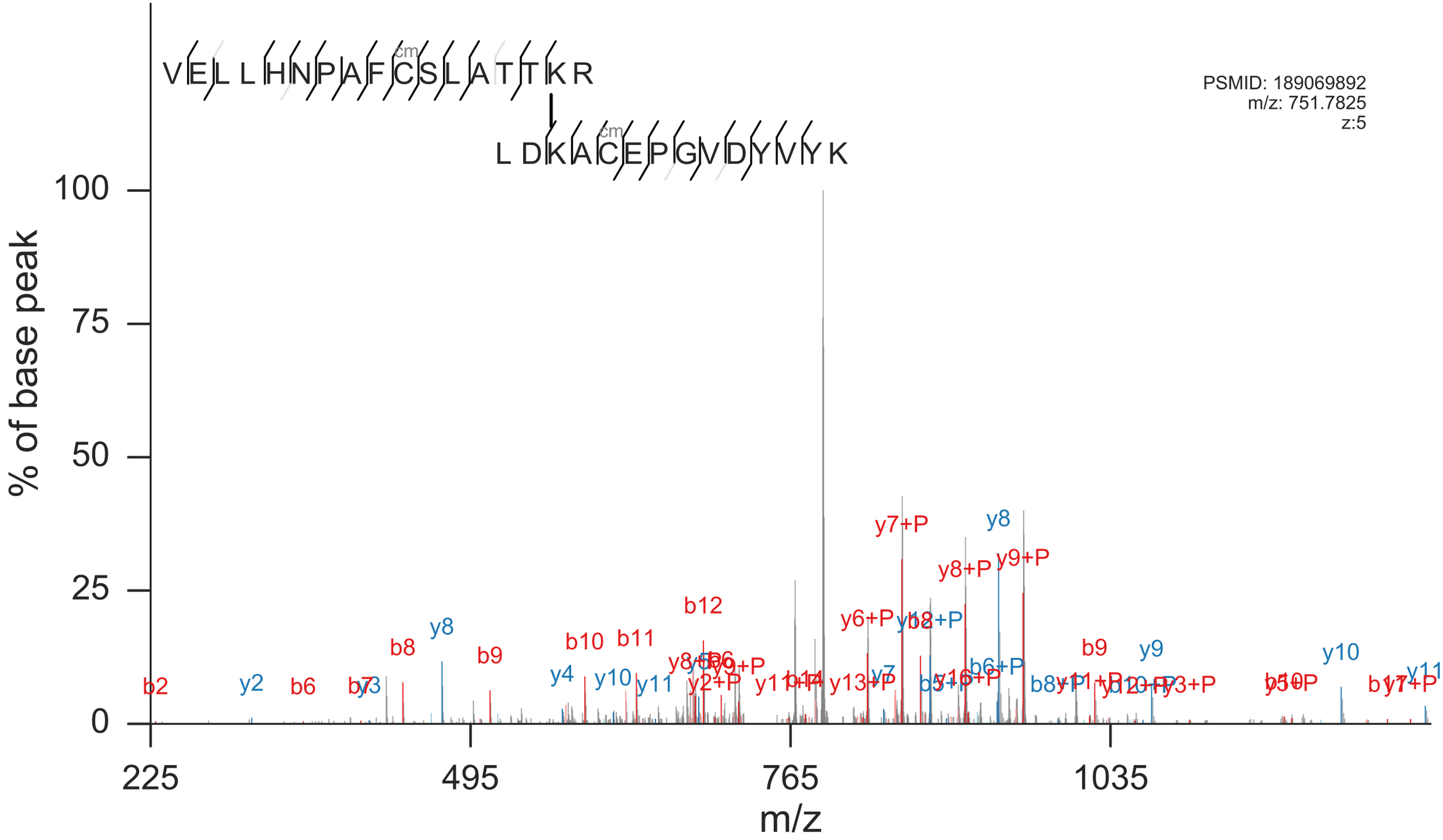

L E S E E T M ox V L E A H D A Q G D V P V T V T V H D F P G K
I F T V N H K L L P V G R
PSMID: 189059761
m/z: 980.3033
z:5
% of base peak
100
75
50
25
0
300
619
938
1257
m/z
y12
y8
y10
b17+P
b18+P
y6
y4
y7
y9
y5
b6
y3
b20+P
b10+P
b11+P
b12+P
b13+P
b27+P
y11

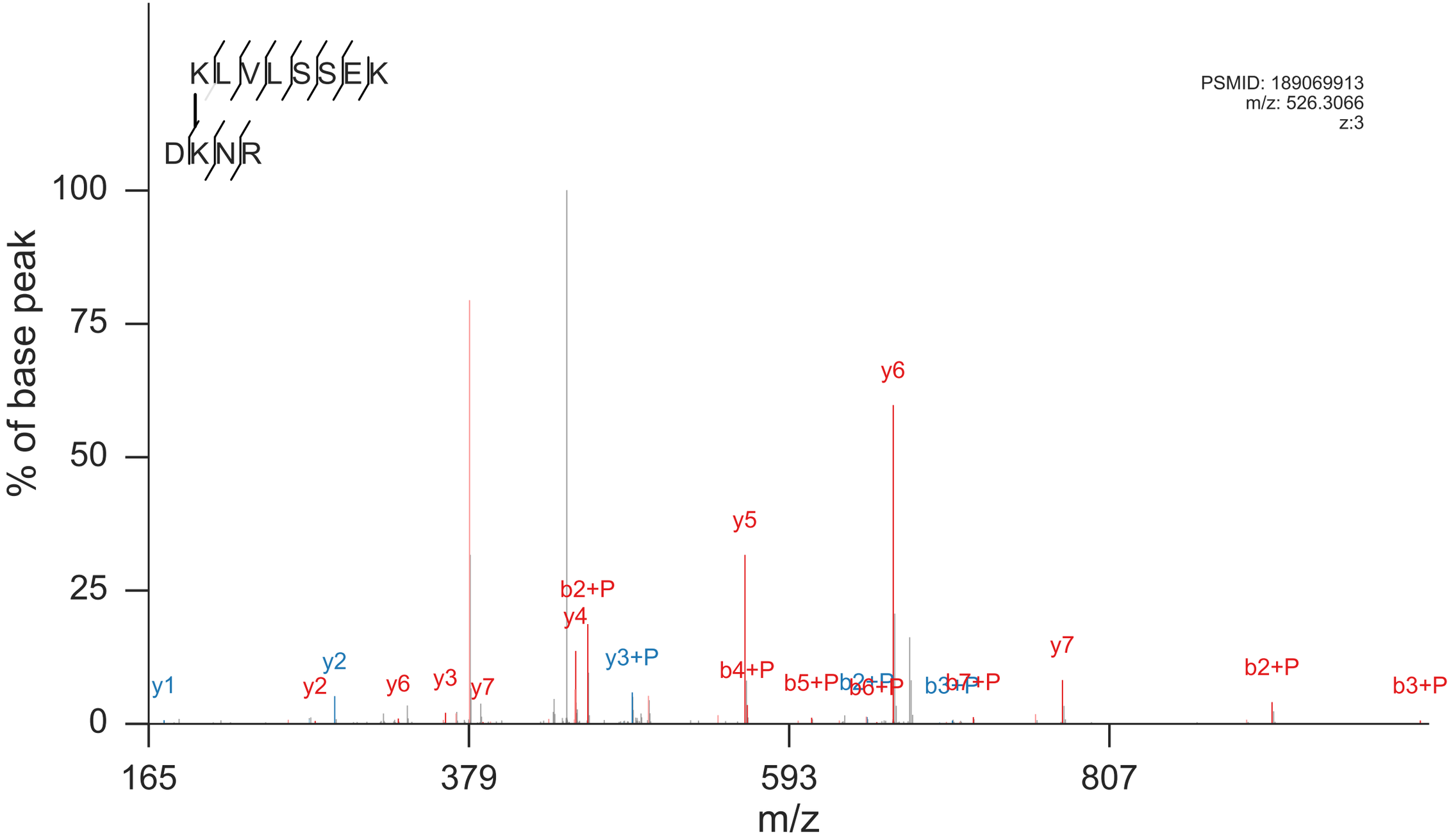

L E S E E T M ox V L E A H D A Q G D V P V T V T V H D F P G K K
Q G A L E L I K K G Y T Q Q L A F R
bs3nh2
PSMID: 189059771
m/z: 959.3276
z:6
% of base peak
100
75
50
25
0
315
585
855
1125
m/z
y2
y3
y4
y5
y10
y6
y7
b15
y25+P
b18
y8
y9
y7+P
y9+P
y2+P
y10+P
y11+P
y12+P
y13+P
y15+P
y10
y4+P

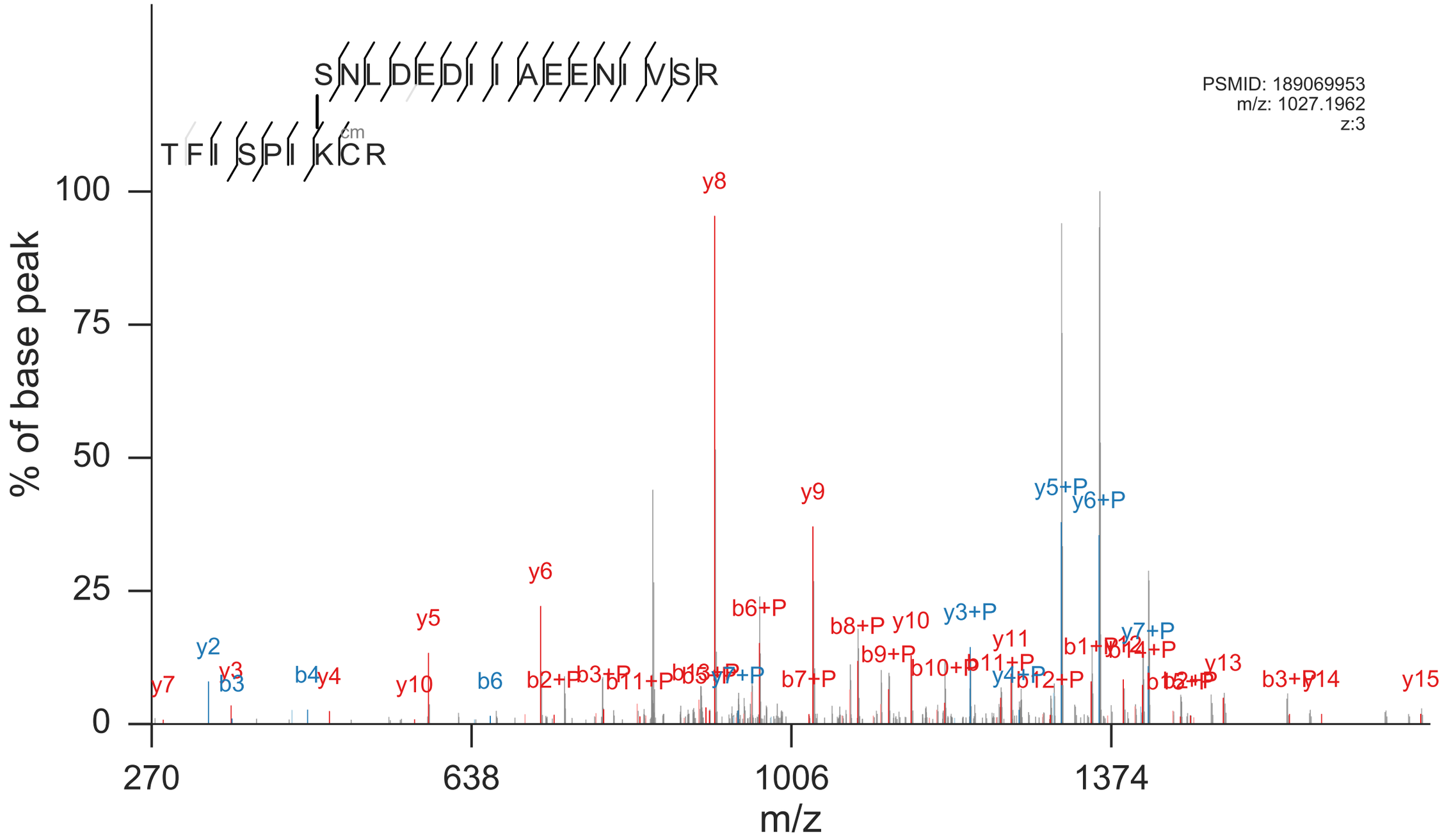

YISKYELDK
YPKELR
PSMID: 189069852
m/z: 527.0371
z:4
% of base peak
100
75
50
25
0
b2
y2
b3
y3
y3
y7+P
b4+P
y8+P
y4
y6+P
b6+P
b4+P
y5+P
b8+P
y5
270
371
472
573
674
m/z

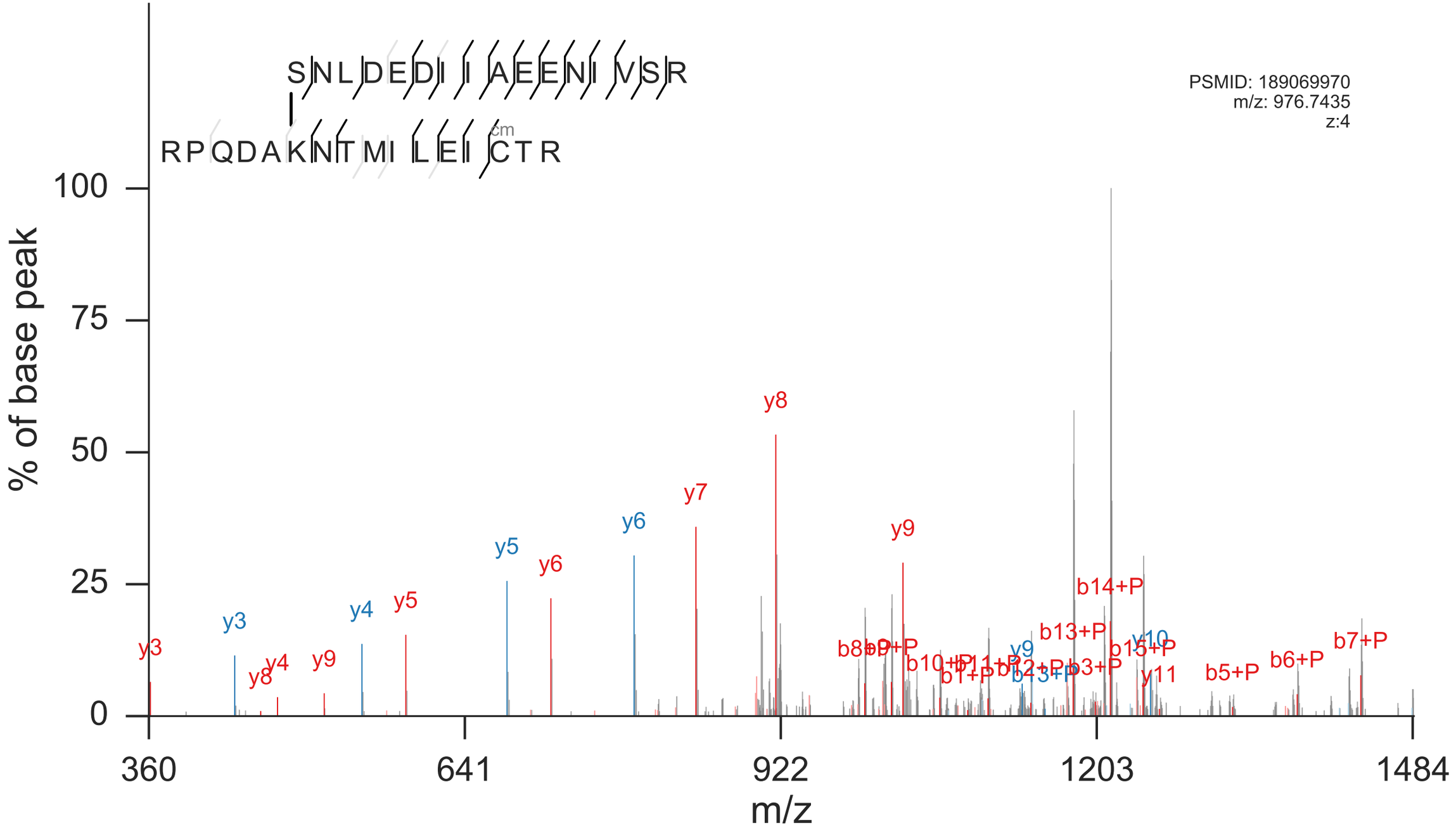

FISLGEACKK
cm
YISKYELDK
PSMID: 189069855
m/z: 818.0977
z:3
% of base peak
100
75
50
25
0
255
480
705
930
m/z
b2
y2
b3
y3
b4
y4
b5
y5
y7+P
y8+P
y9+P
y3+P
b4+P
y4+P
y5+P
b5+P
y6+P
y7+P
y8+P
b8+P
y9+P

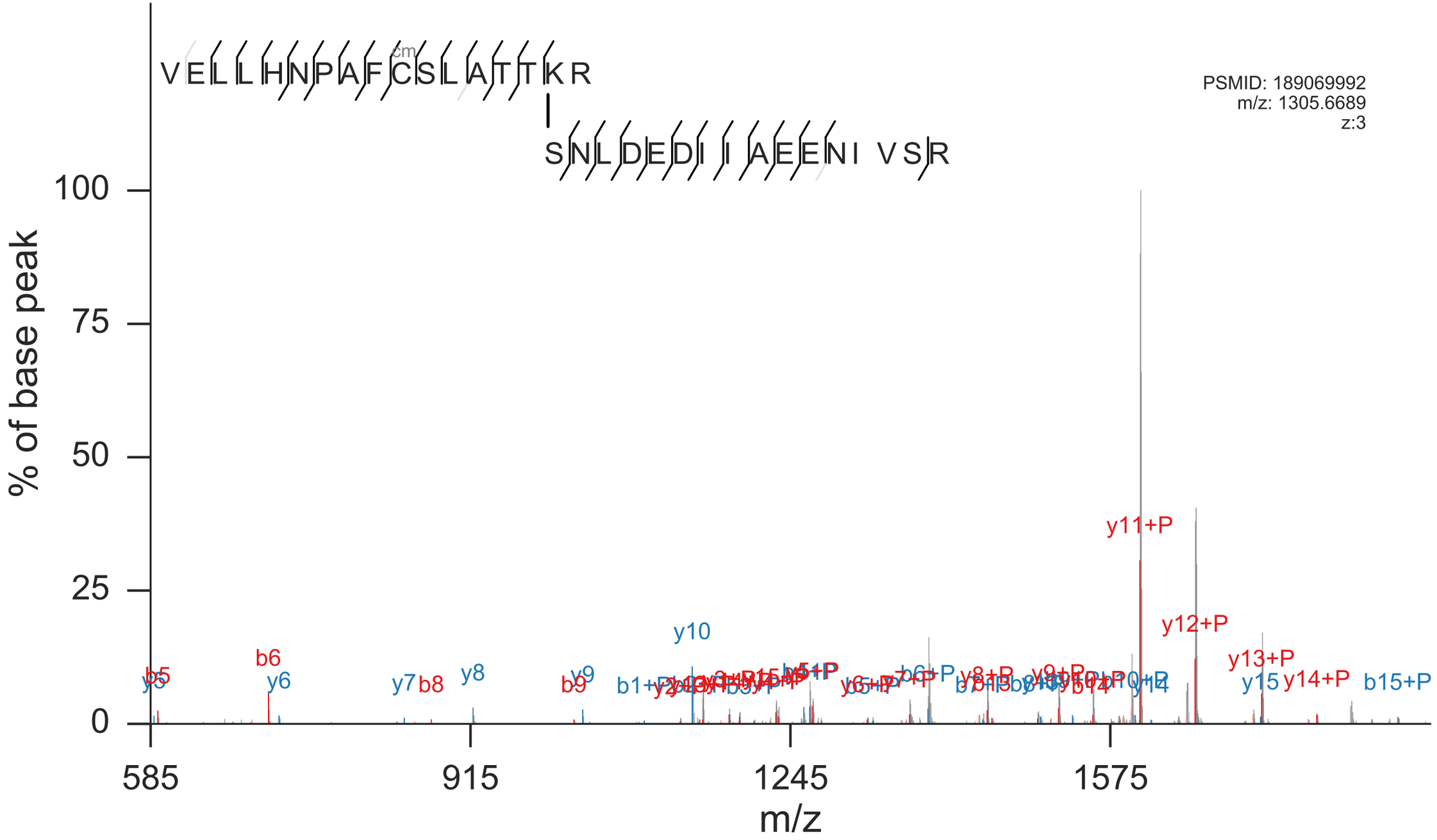

KCCCEDGMRENPMR
cmcm
FLYGKK
PSMID: 189069861
m/z: 645.5542
z:4
% of base peak
100
75
50
25
0
255
397
539
681
823
m/z
b2
y11
y8
y9
y4+P
b2+P
y5+P
y10
b3+P
y2+P
y11
y3+P
b10+P
y4+P
y12
b5+P
y5+P

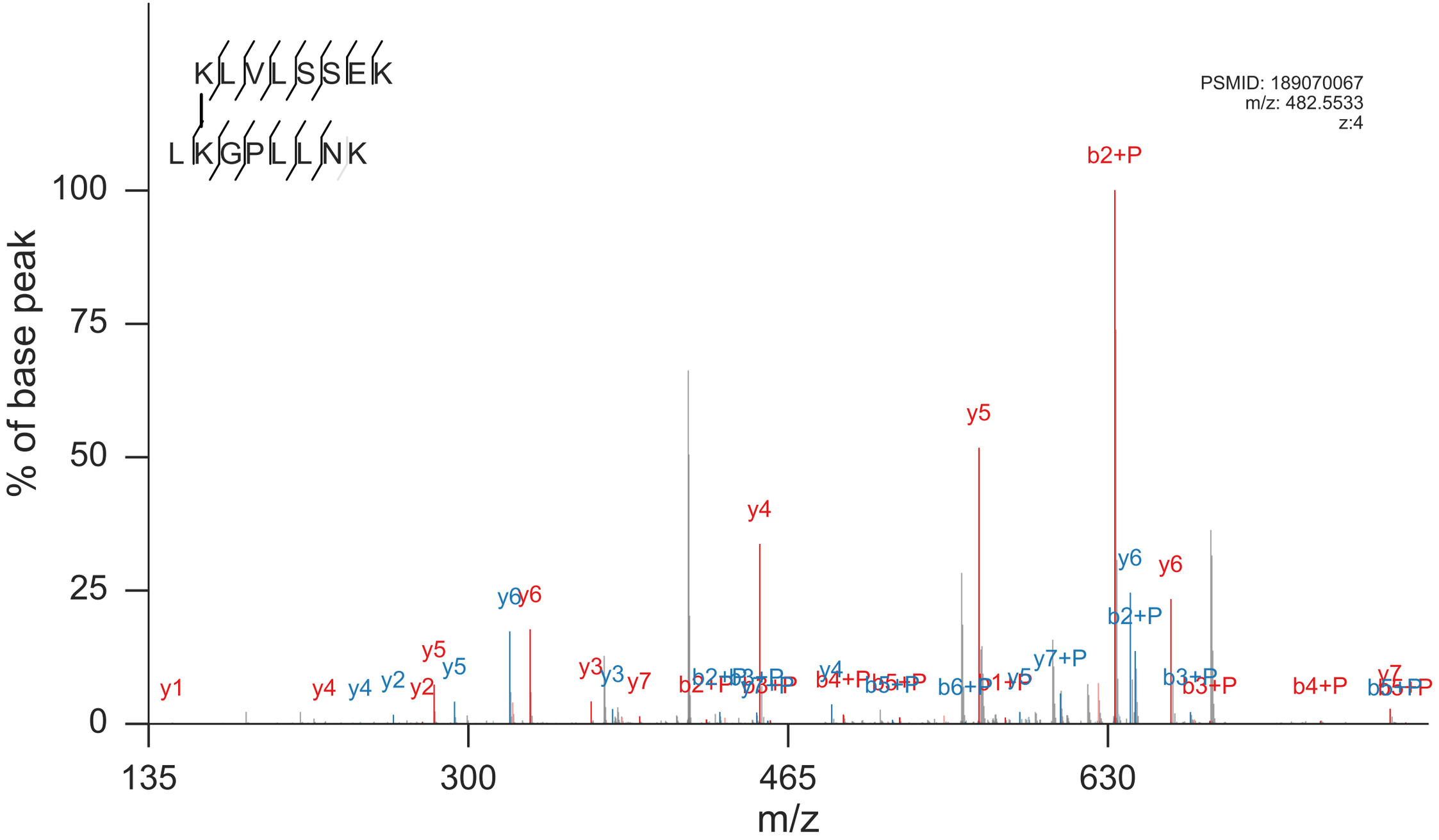

VELLHNPAFCSLATTKR
cm
LDKACEPGVDYVYK
cm
PSMID: 189069892
m/z: 751.7825
z:5
% of base peak
100
75
50
25
0
225
495
765
1035
m/z
b2
y2
b6
b7
y3
b8
y8
b9
b10
b11
y4
y10
y11
b12
y2+P
y13+P
y7+P
y8
y8+P
y9+P
y6+P
b8+P
b6+P
y16+P
b9
y9
y10
y11
y7+P

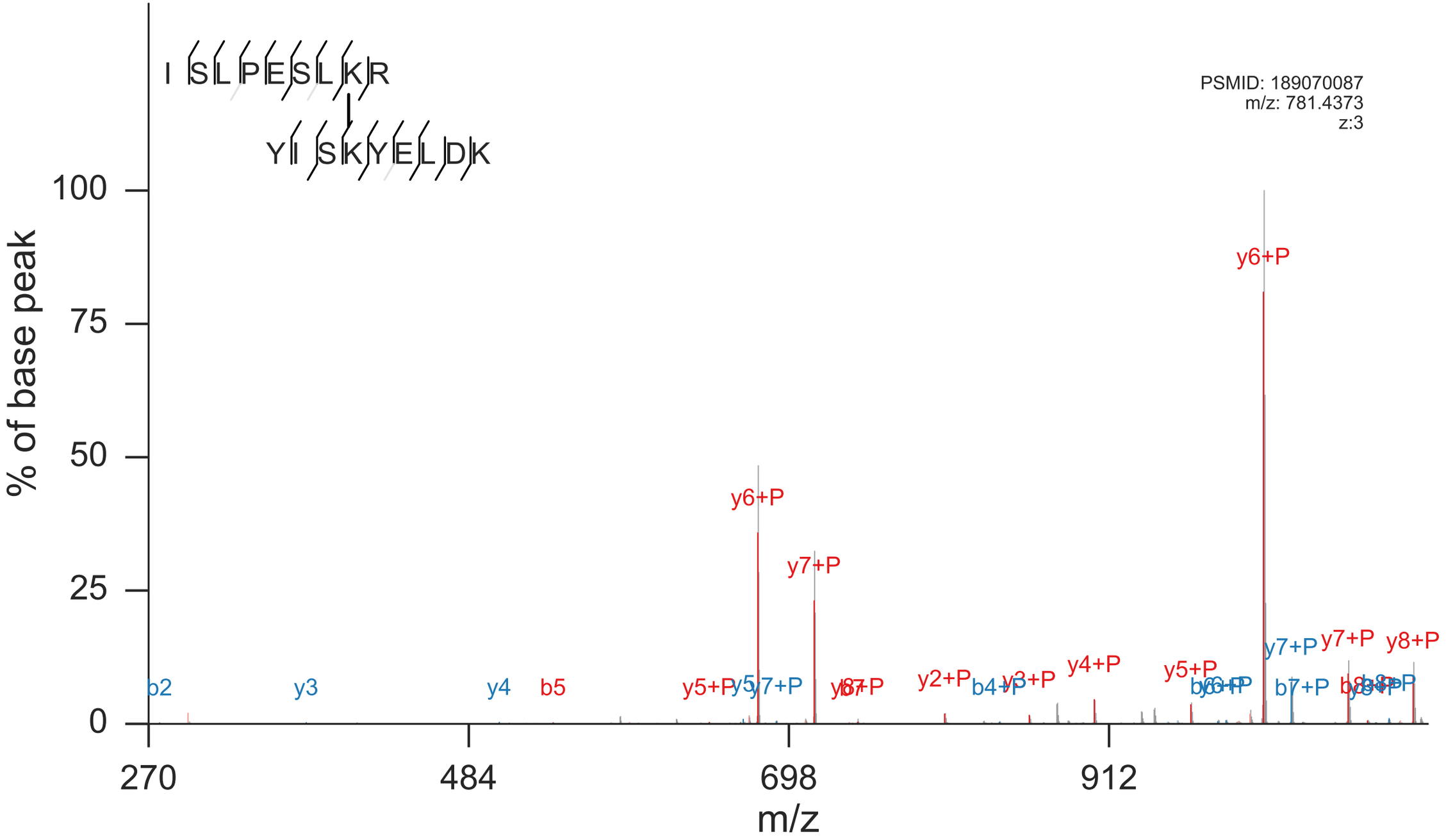

K L V L S S E K
D K N R
PSMID: 189069913
m/z: 526.3066
z:3
% of base peak
100
75
50
25
0
165
379
593
807
m/z
y1
y2
y2
y6
y3
y7
b2+P
y4
y3+P
y5
b4+P
b5+P
y6
b3+P
y7
b2+P
b3+P

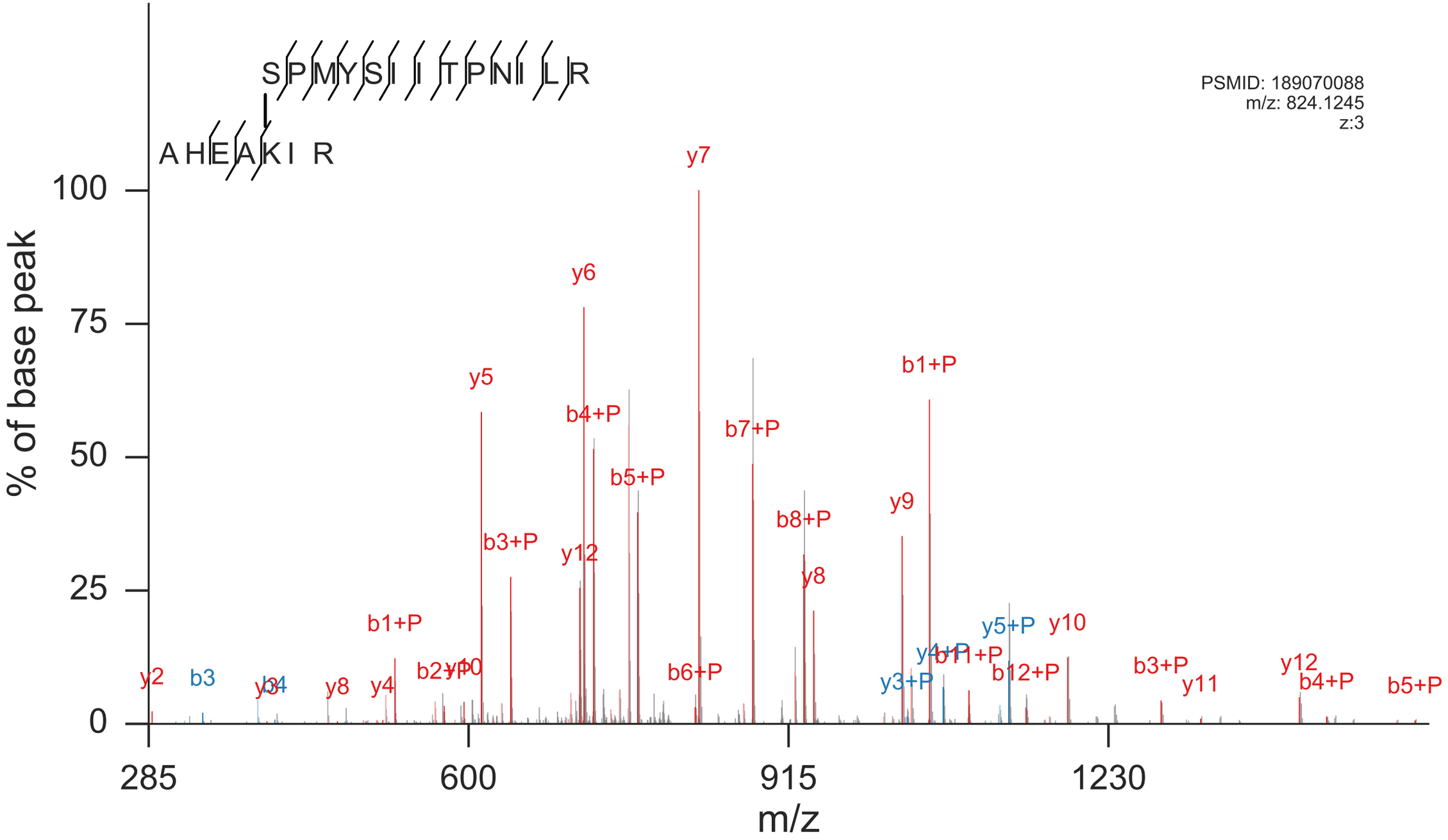

SNLDEDIIAEENIVSR
TFISPIKCR
cm
PSMID: 189069953
m/z: 1027.1962
z:3
% of base peak
100
75
50
25
0
270
638
1006
1374
m/z
y8
y9
y6
y5
y5+P
y6+P
b6+P
b8+P
y10
y3+P
y11
y7+P
b9+P
b10+P
b11+P
y4+P
b12+P
y13
y14
y15
y2
y3
b3
b4
y4
y7
y10
b6
b2+P
b7+P

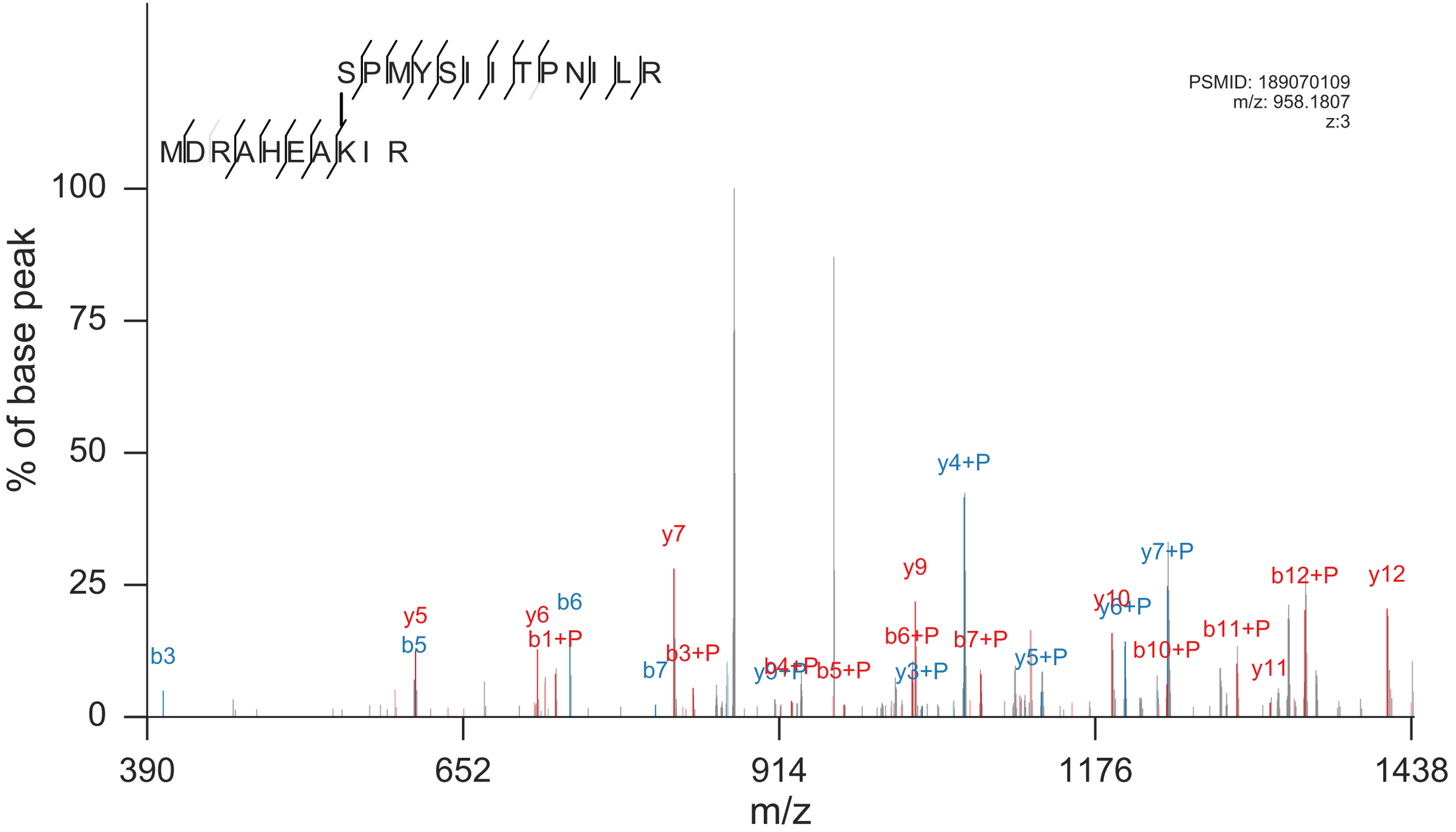

SNLDEDIIAEENIVSR
RPQDAKNTMILEICTR
cm
PSMID: 189069970
m/z: 976.7435
z:4
% of base peak
100
75
50
25
0
360
641
922
1203
1484
m/z
y3
y3
y4
y8
y9
y4
y5
y5
y6
y6
y7
y8
y9
b14+P
b13+P
y10
b15+P
b7+P
b6+P
b5+P
y11
b3+P
b2+P
b1+P
y9

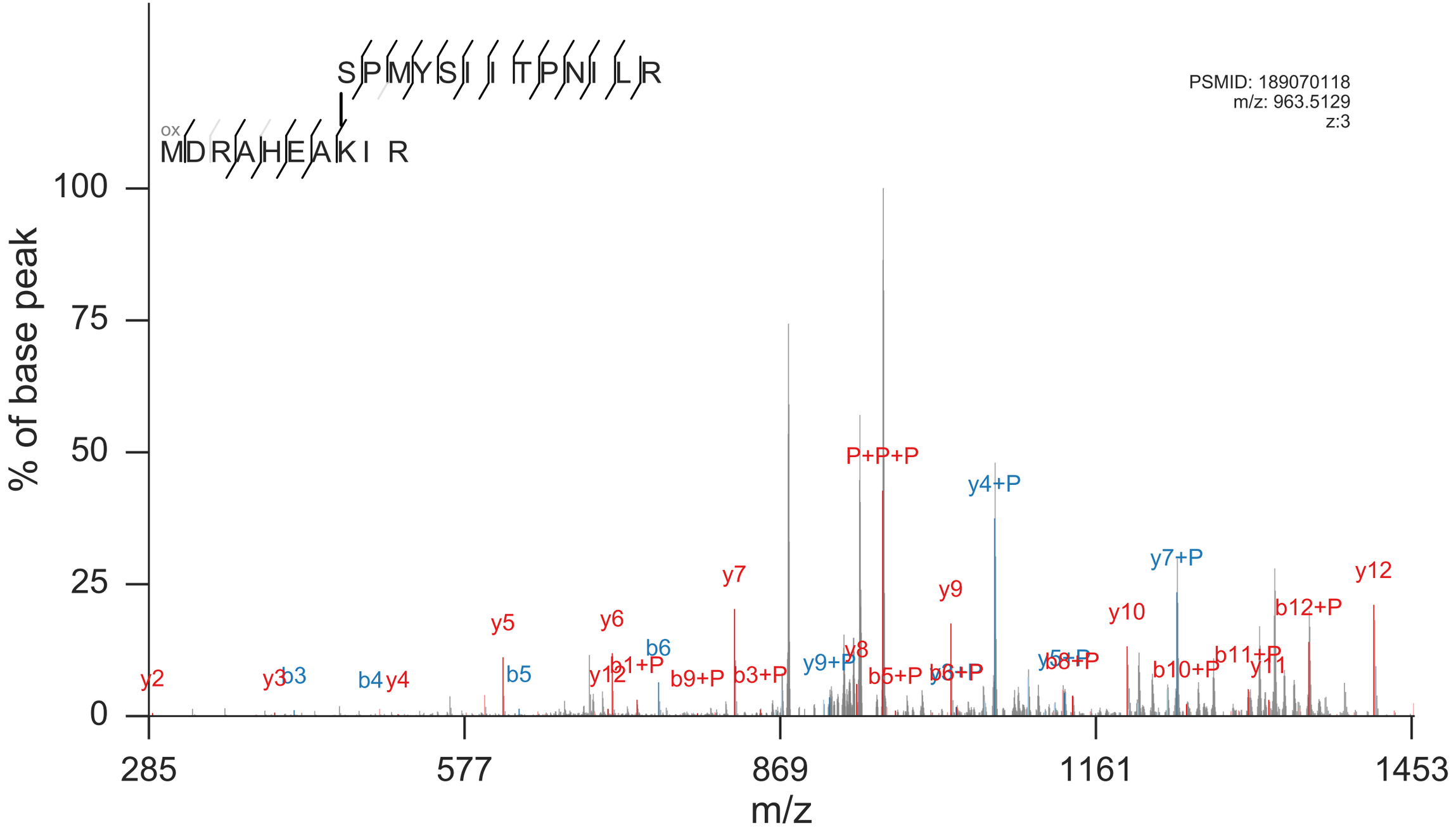

VELLHNPAFCmSLATTKR
SNLDEDIIAEENIVSR
PSMID: 189069992
m/z: 1305.6689
z:3
% of base peak
100
75
50
25
0
585
915
1245
1575
m/z
y11+P
y12+P
y13+P
y14+P
y15
b15+P
y10
b6
y6
y7
b8
y8
b9
y9
b5
y5

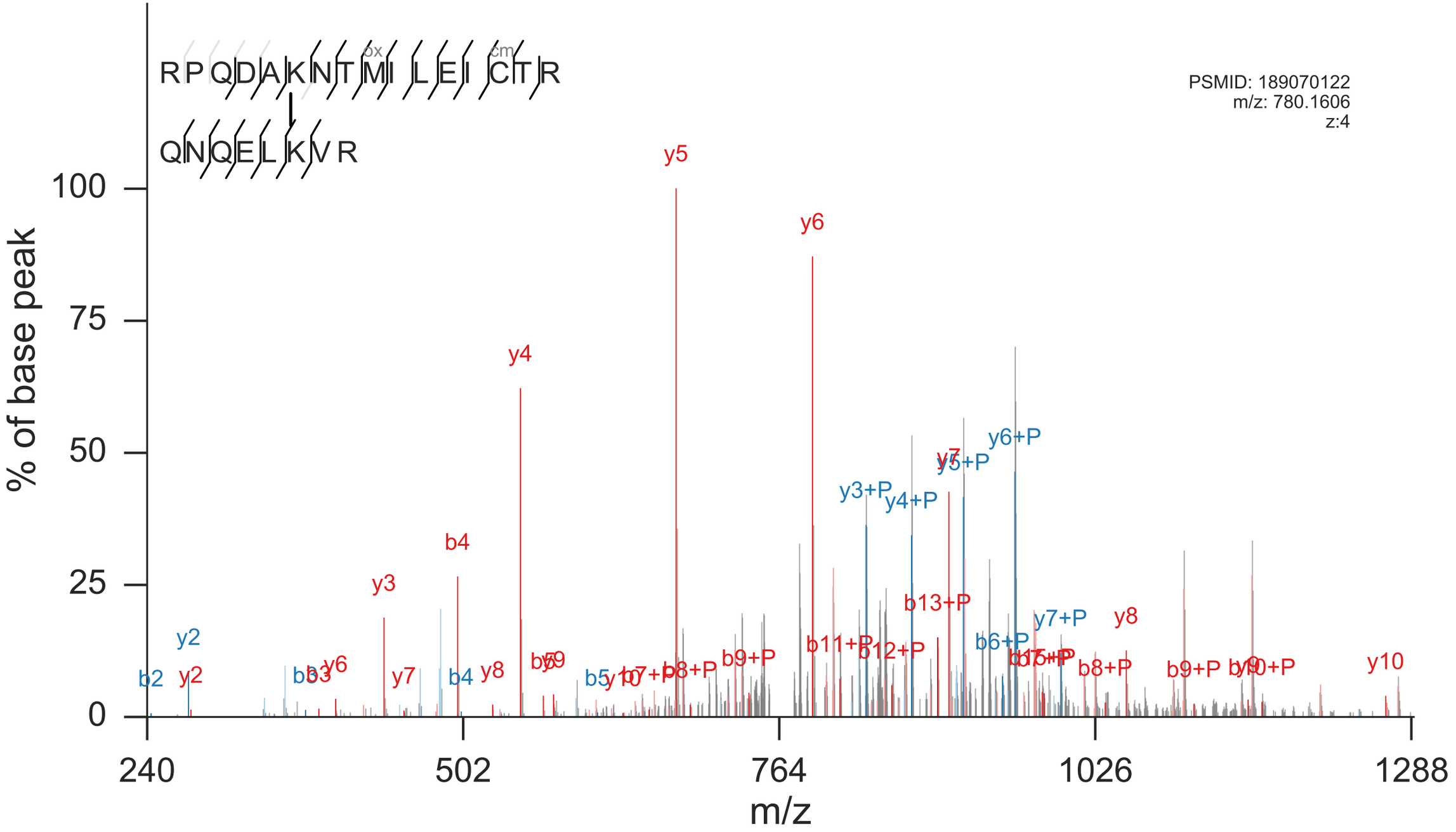

K L V L S S E K
L K G P L L N K
PSMID: 189070067
m/z: 482.5533
z:4
% of base peak
100
75
50
25
0
135
300
465
630
m/z
b2+P
y5
y4
y6
y6
b2+P
y6
y5
y5
y3
y3
y7
y4
y7+P
b3+P
b4+P
y7
y1
y4
y4
y2
y2
b2+P
b4+P
b6+P
y1+P
b3+P
b5+P

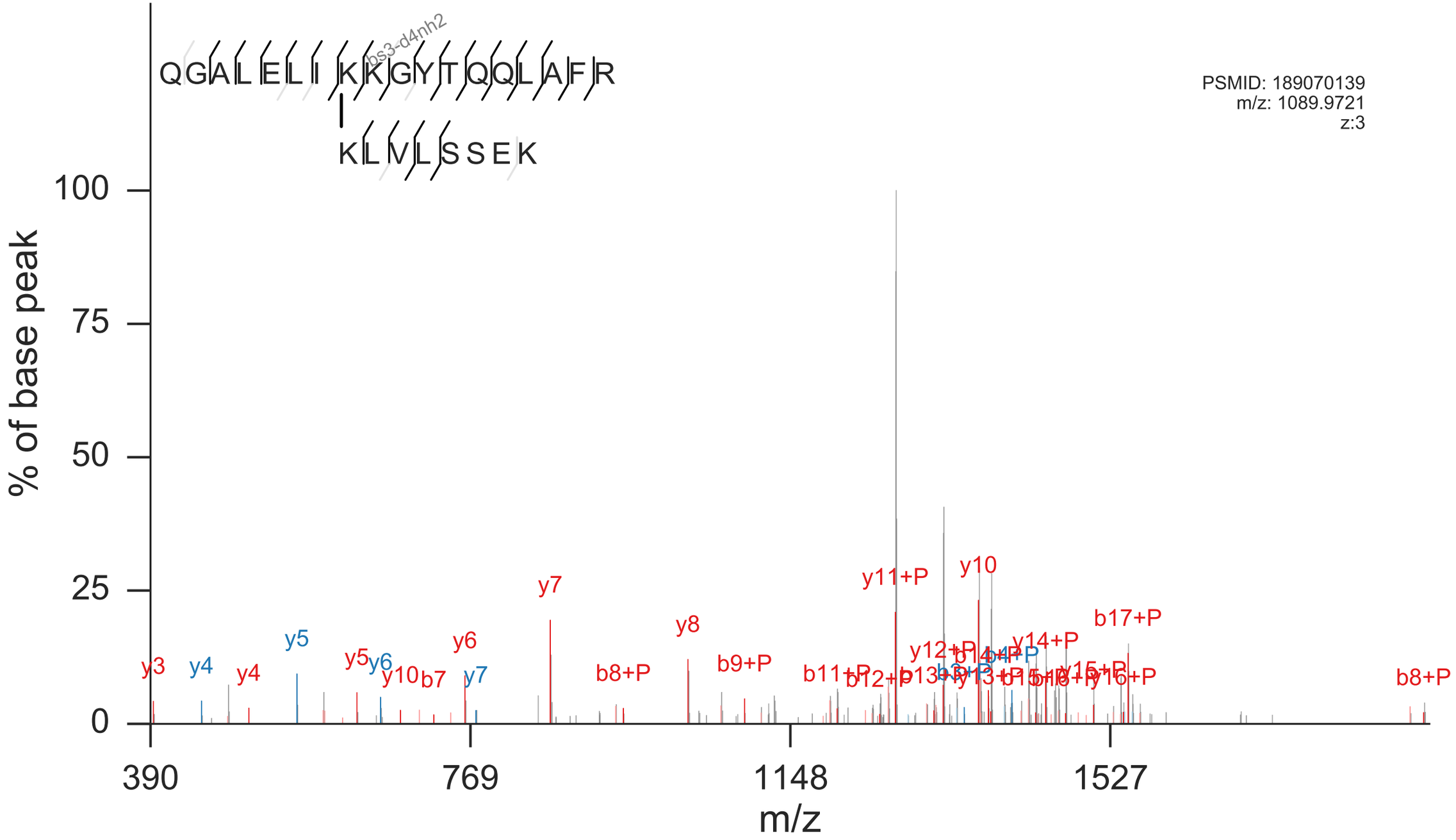

I S L P E S L K R
Y I S K Y E L D K
PSMID: 189070087
m/z: 781.4373
z:3
% of base peak
100
75
50
25
0
270
484
698
912
m/z
y6+P
y6+P
y7+P
y7+P
y8+P
y5+P
y4+P
y2+P
y3+P
b4+P
b7+P
b2
y3
y4
b5
y5+P
y7+P

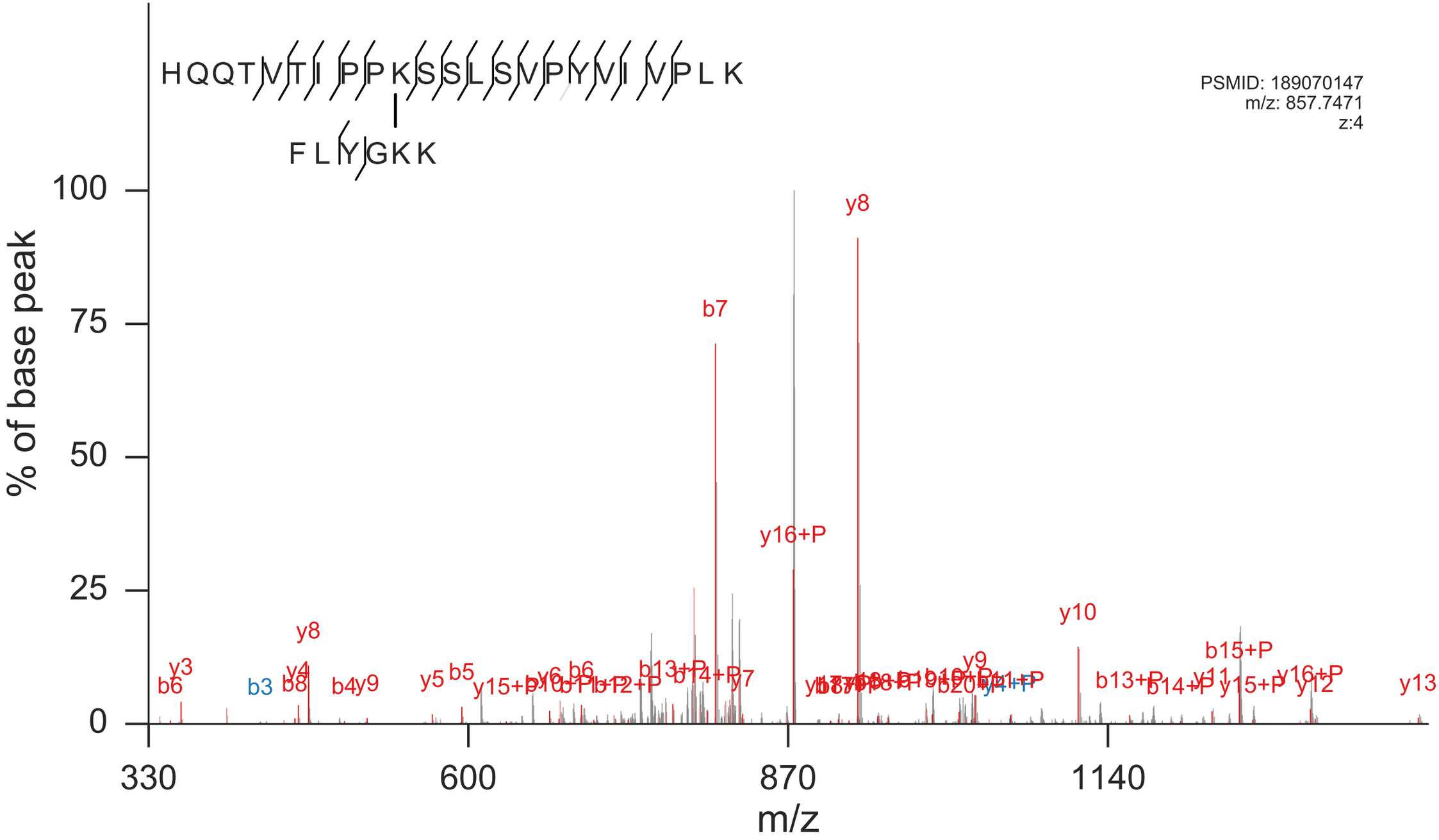

SPMYSIITPNILR
AHEAKIR
PSMID: 189070088
m/z: 824.1245
z:3
% of base peak
100
75
50
25
0
285
600
915
1230
m/z
y7
y6
y5
b4+P
b7+P
b1+P
b5+P
b8+P
y9
b3+P
y12
y8
b1+P
y5+P
y10
y4+P
b11+P
b12+P
b3+P
y12
y11
b4+P
b5+P
y2
b3
y3
y8
y4
b2+P
y10
b6+P
y3+P

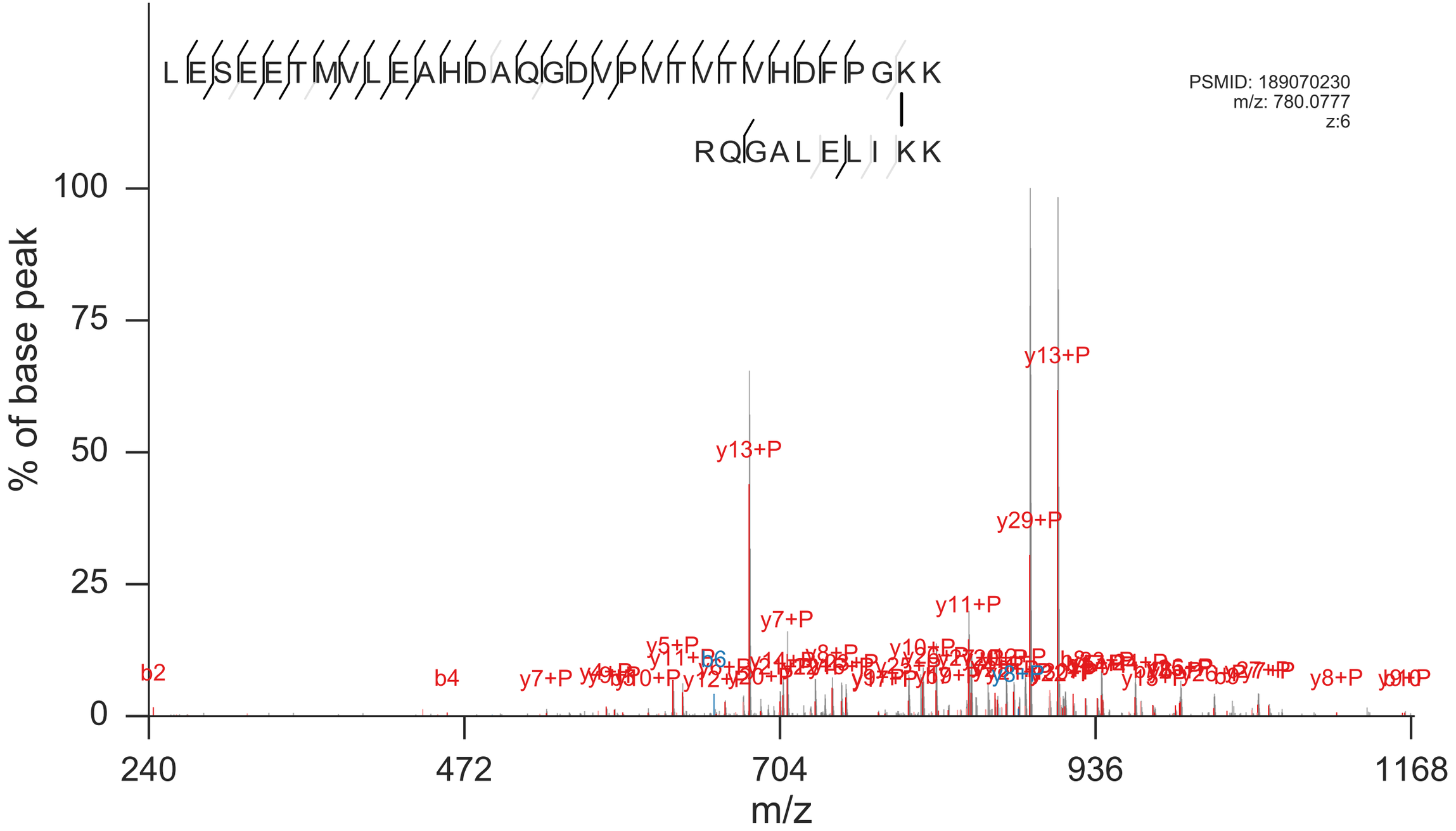

SPMYSIITPNILR
MDRAHEAKIR
PSMID: 189070109
m/z: 958.1807
z:3
% of base peak
100
75
50
25
0
390
652
914
1176
1438
m/z
b3
y5
b5
y6
b1+P
b6
y7
b7
b3+P
y9+P
b4+P
b5+P
y4+P
y3+P
y9
b6+P
b7+P
y5+P
y10
y6+P
b10+P
y7+P
b11+P
y11
b12+P
y12

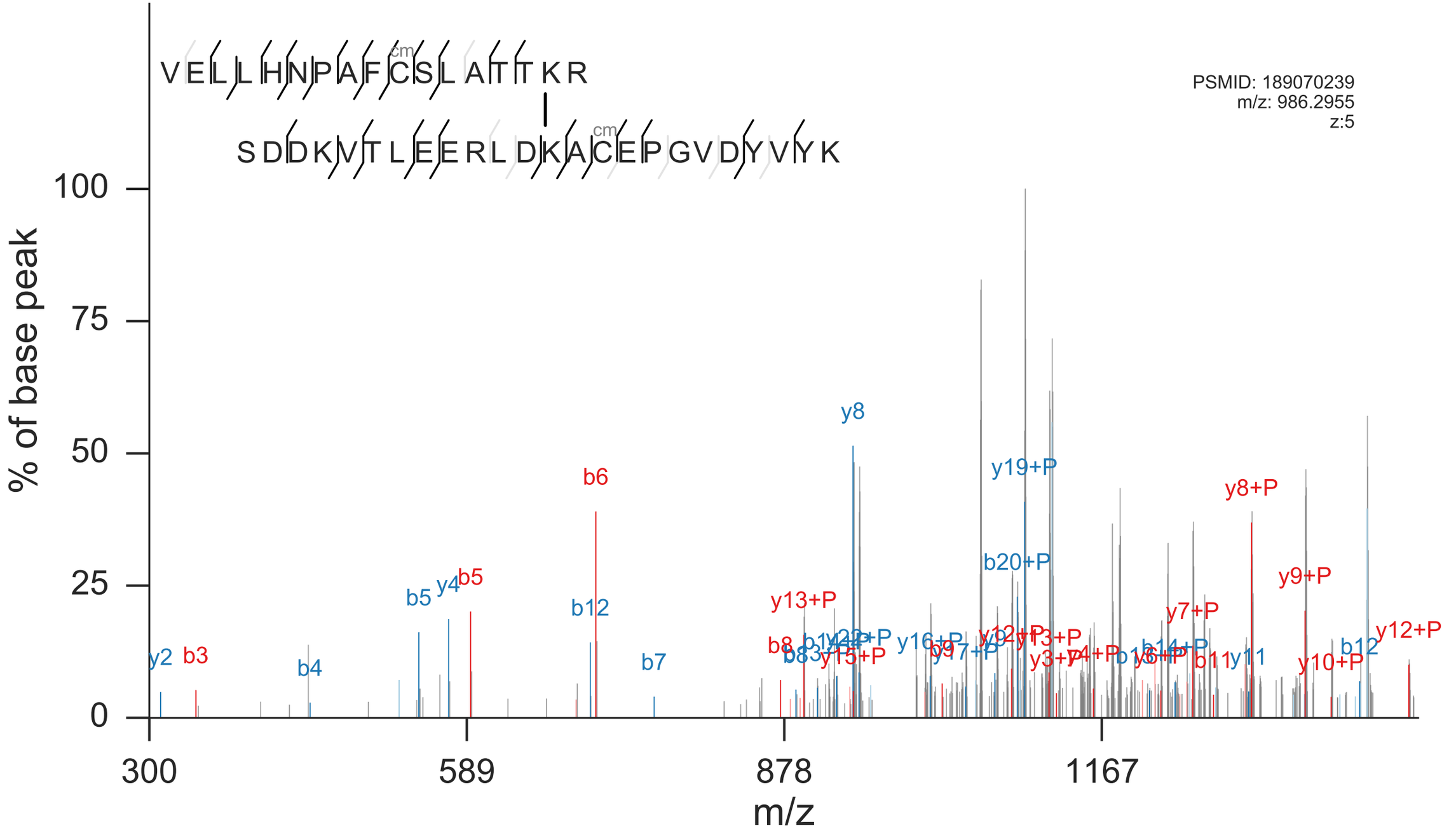

SPMYSIITPNILR
oxMDRAHEAKIR
PSMID: 189070118
m/z: 963.5129
z:3
% of base peak
100
75
50
25
0
285
577
869
1161
1453
m/z
y2
y3
b3
b4
y4
b5
y5
y6
b6
y12
b1+P
b9+P
y7
b3+P
y9+P
y8
P+P+P
b5+P
b6+P
y4+P
y9
y5a+P
y10
y7+P
b10+P
b11+P
y11
b12+P
y12

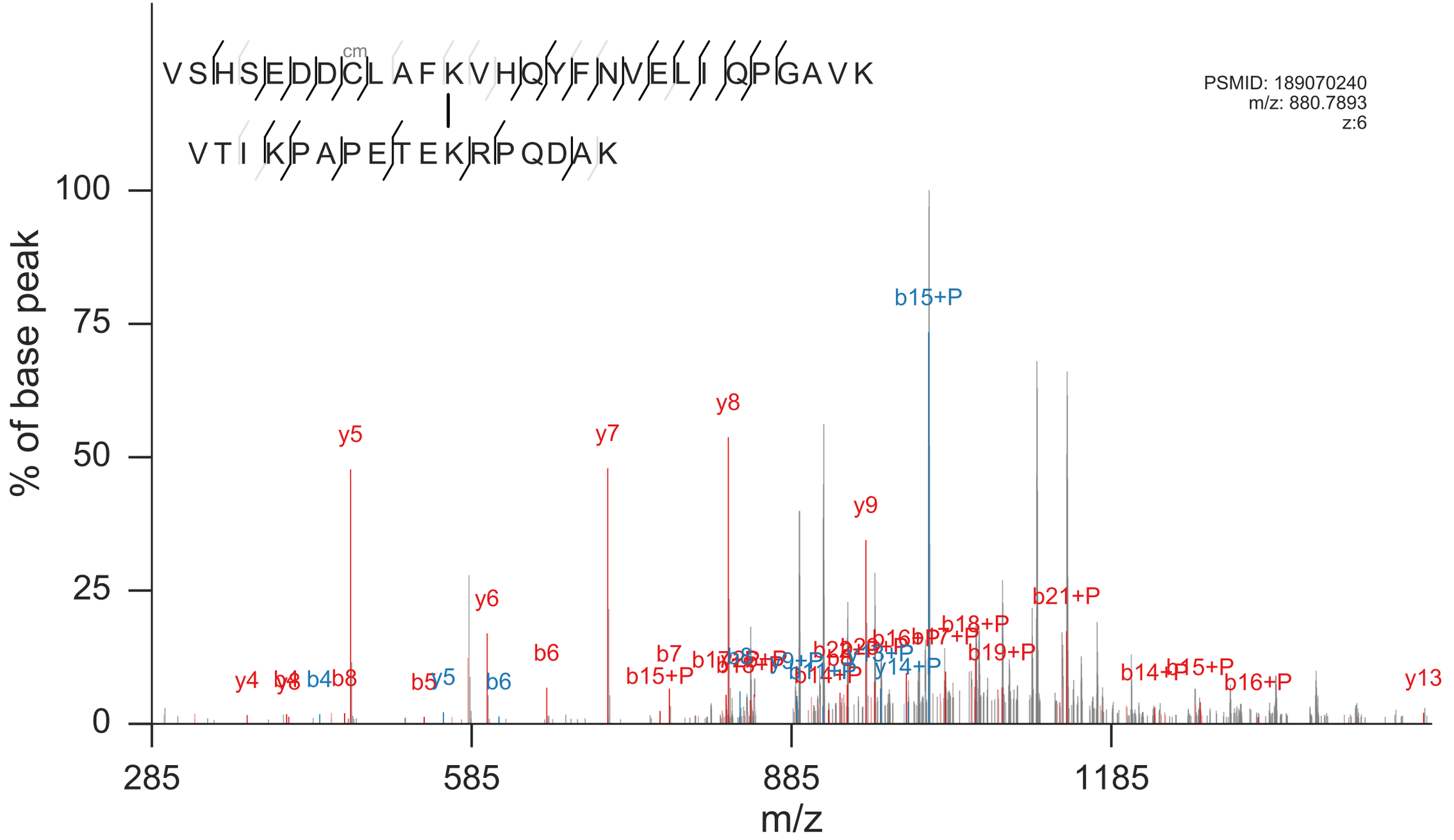

RPQDAKNTMILEICTR
ox
cm
QNQELKVR
PSMID: 189070122
m/z: 780.1606
z:4
% of base peak
100
75
50
25
0
240
502
764
1026
1288
m/z
y5
y6
y4
b4
y3
y2
b2
y2
y6
y7
b4
y8
y10
y10
b13+P
y7+P
y8
y6+P
y5+P
y3+P
y4+P
b11+P
b12+P
b6+P
b8+P
b9+P
b8+P
b9+P
y10+P
y10

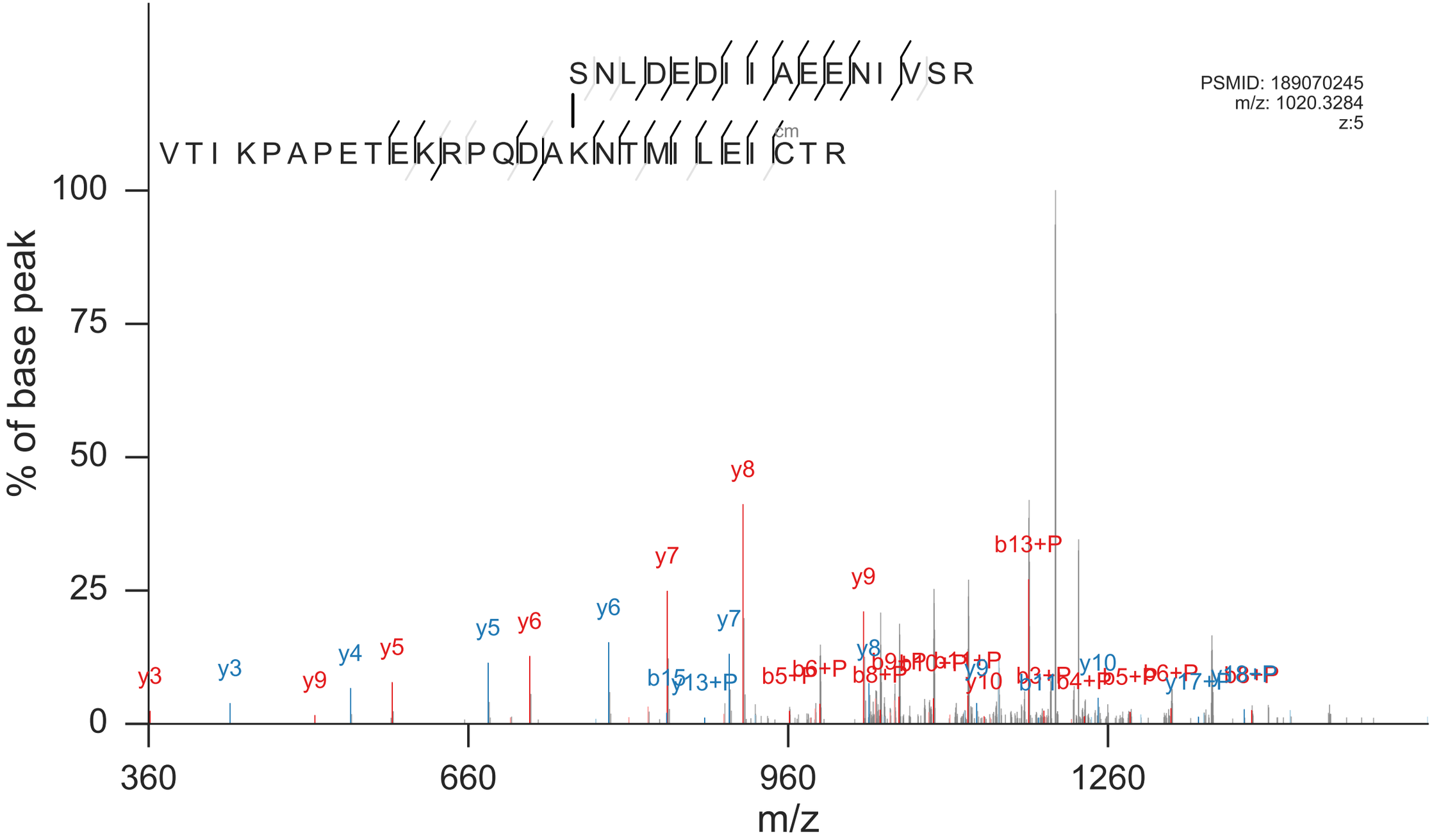

QGALELI[bs3-d4nh2]KKGYTQQLAFR
KLVLSSEK
PSMID: 189070139
m/z: 1089.9721
z:3
% of base peak
100
75
50
25
0
390
769
1148
1527
m/z
y3
y4
y4
y5
y5
y6
y10
b7
y6
y7
b8+P
y7
y8
b9+P
b11+P
b12+P
y11+P
y10
b17+P
y12+P
y14+P
y15+P
y16+P
b8+P

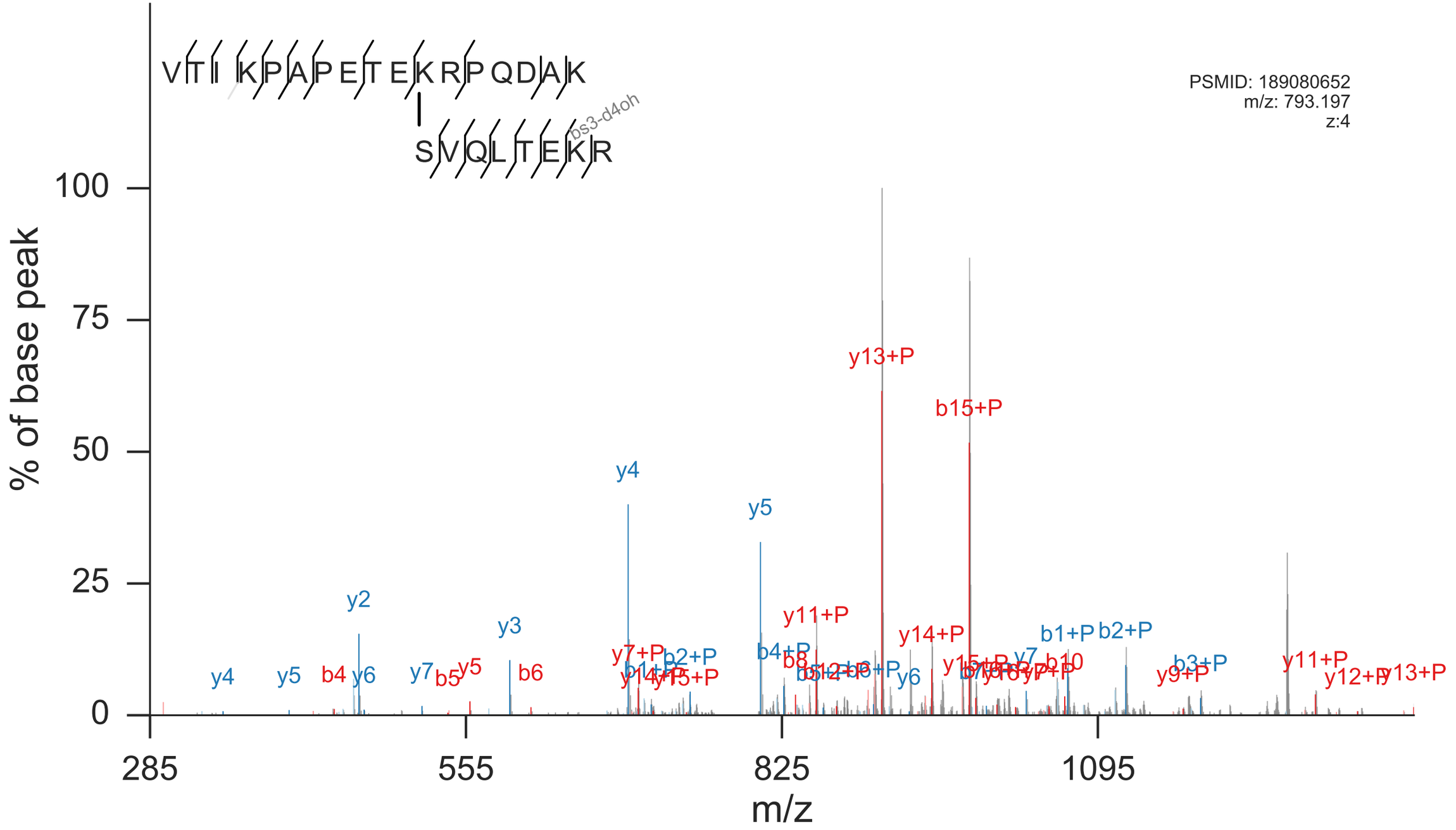

HQQTVTIPPKSSLSVPYVIVPLK
FLYGKK
PSMID: 189070147
m/z: 857.7471
z:4
% of base peak
100
75
50
25
0
330
600
870
1140
m/z
y8
b7
y16+P
y8
y10
b15+P
y3
b6
b3
y4
b8
b4
y9
y5
b5
y15+P
y6
b6
b13+P
b14+P
y7
y9
b13+P
b14+P
y11
y15+P
y16+P
y12
y13

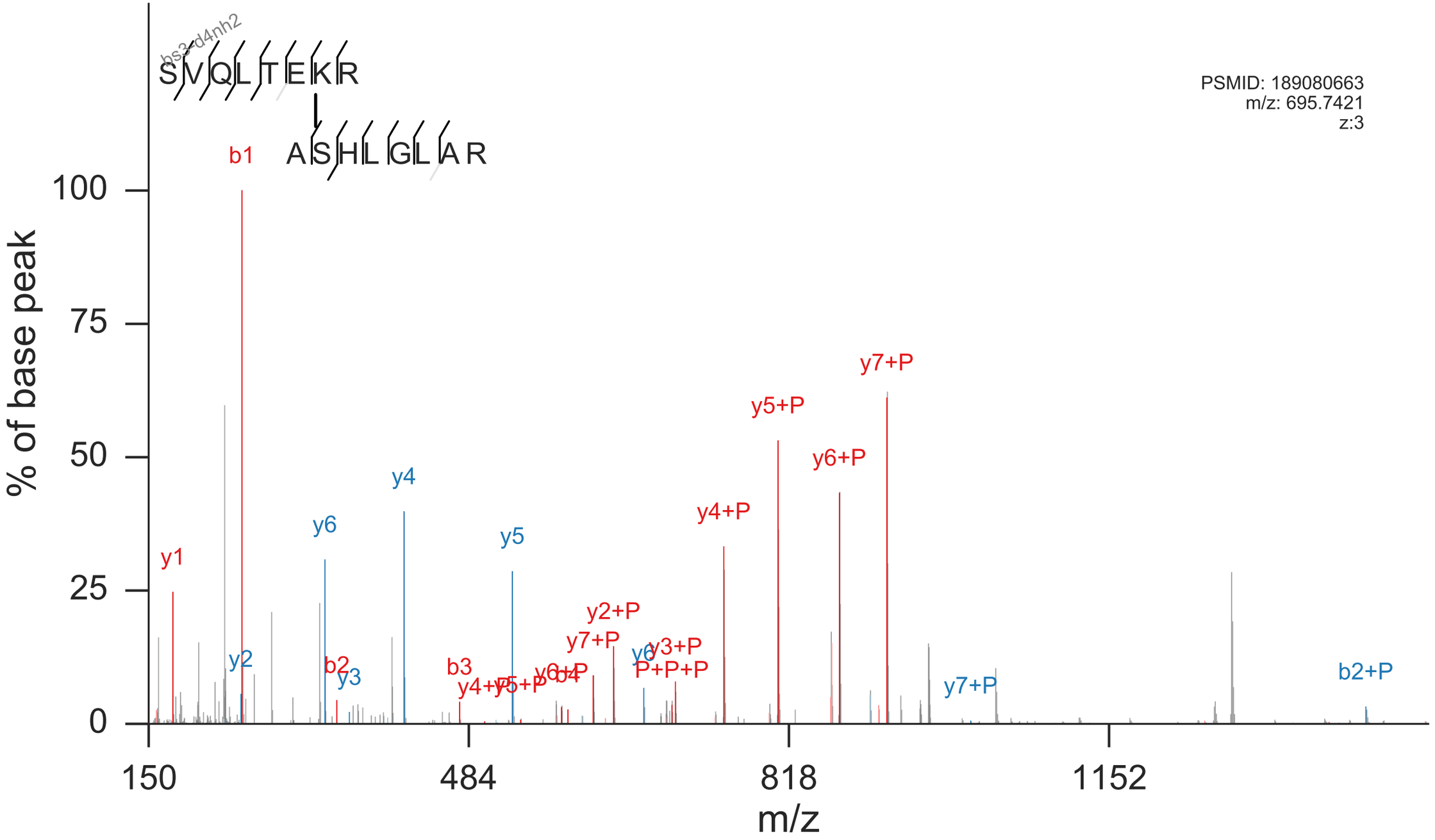

LESEETMVLEAHDAQGDVPVTVTVHDFPGKK
RQGALELIKK
PSMID: 189070230
m/z: 780.0777
z:6
% of base peak
100
75
50
25
0
240
472
704
936
1168
m/z
y13+P
y29+P
y11+P
y7+P
y5+P
b2
b4
y8+P

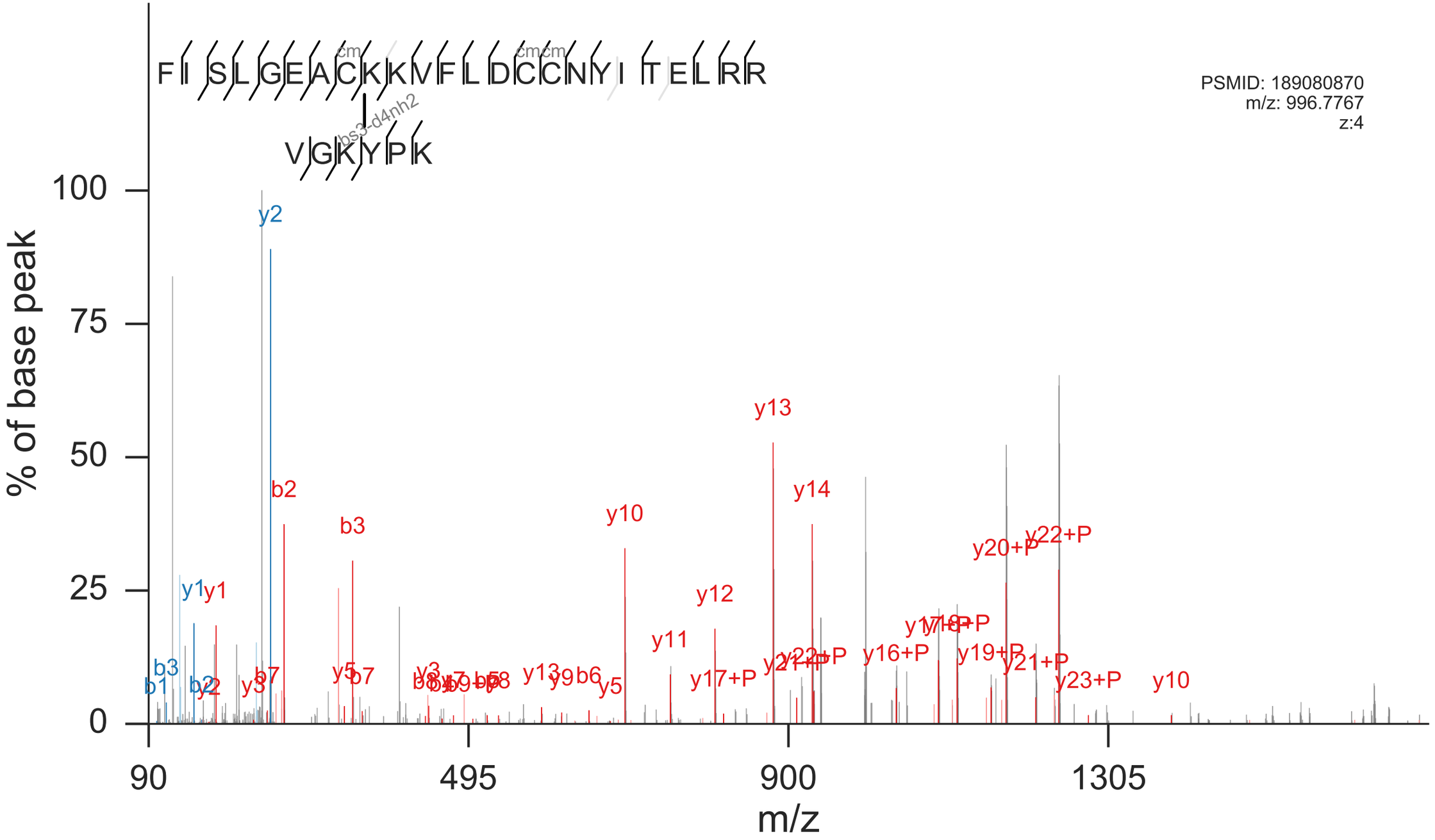

V E L L H N P A F C S L A T T K R
cm
S D D K V T L E E R L D K A C E P G V D Y V Y K
cm
PSMID: 189070239
m/z: 986.2955
z:5
% of base peak
100
75
50
25
0
300
589
878
1167
m/z
y8
b6
y19+P
y8+P
b20+P
y9+P
y13+P
b5
y4
b5
b12
y7+P
y12+P
y2
b3
b4
b7
y15+P
y16+P
y11
b12
y10+P
y12+P

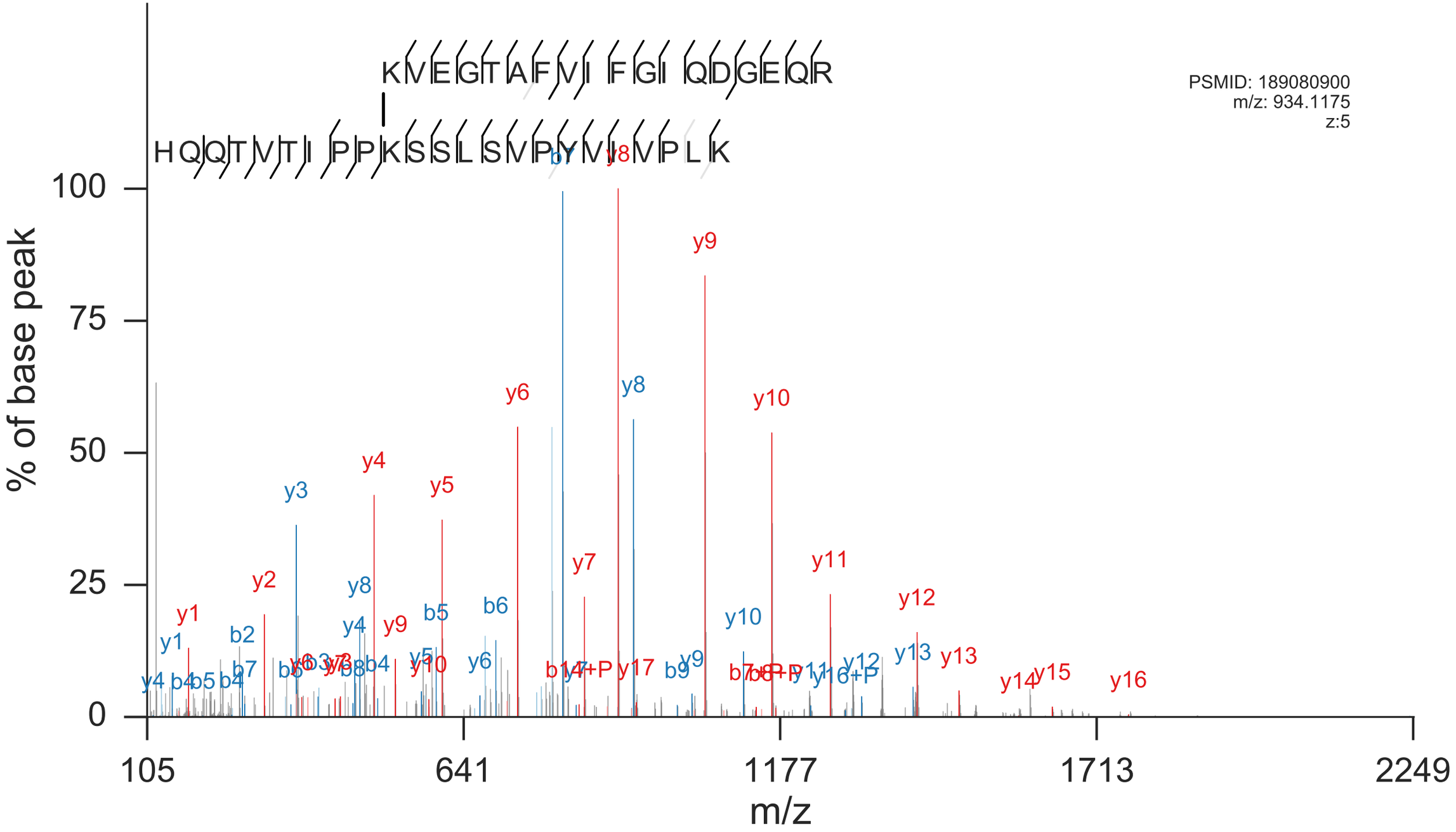

VSHSEDDCLAFKVHQYFNVELIQPGAVK
cm
VTIKPAPETEKRPQDAK
PSMID: 189070240
m/z: 880.7893
z:6
% of base peak
100
75
50
25
0
285
585
885
1185
m/z
b15+P
y8
y5
y7
y9
y6
b6
b7
b15+P
b21+P
b18+P
b19+P
b14+P
b15+P
b16+P
y13
y4
b4
b8
b5
y5
b6
y14+P

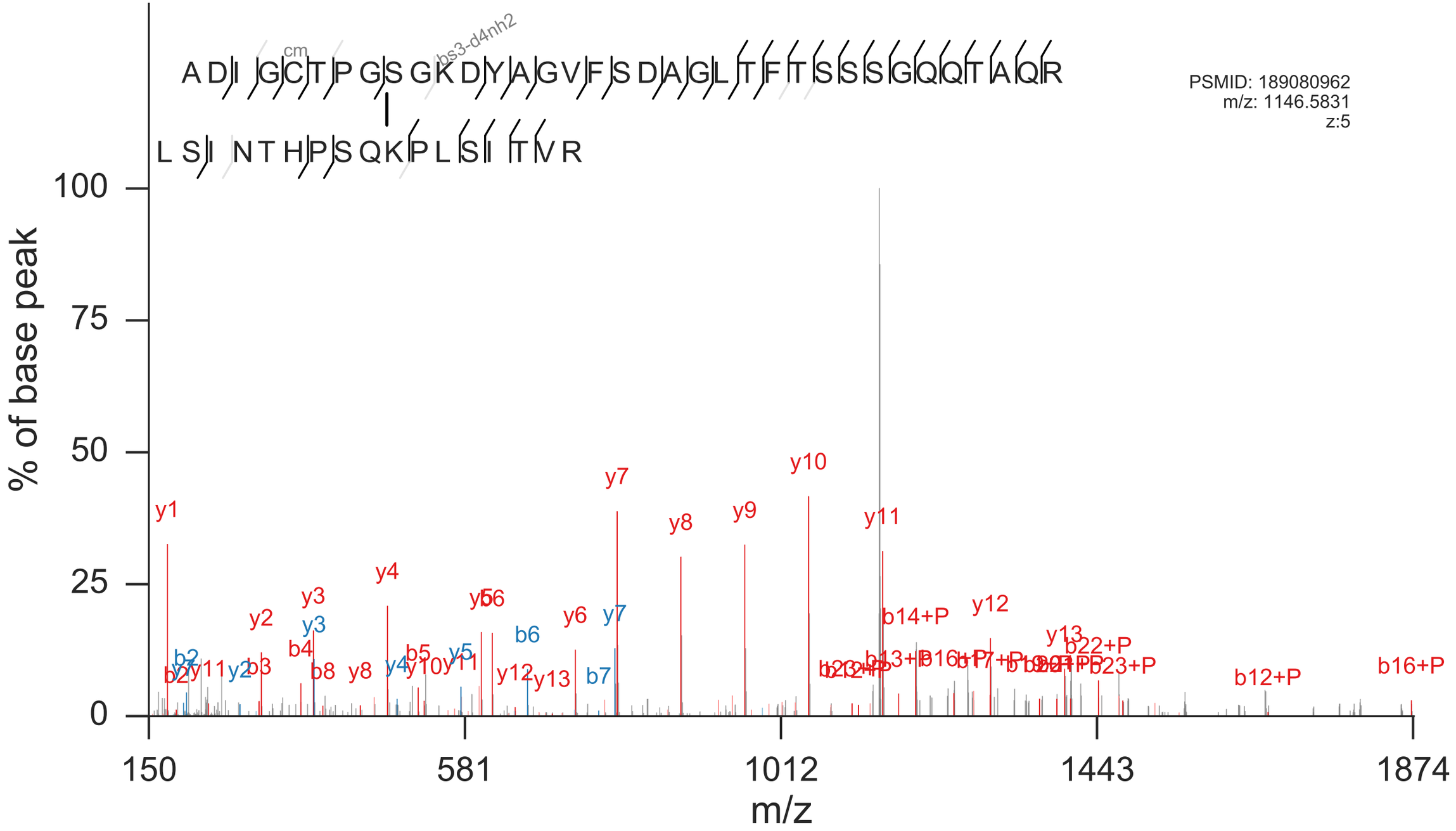

SNLDEDIIAEENIVSR
VTIKPAPETEKRPQDAKNTMILEICTR
cm
PSMID: 189070245
m/z: 1020.3284
z:5
% of base peak
100
75
50
25
0
360
660
960
1260
m/z
y3
y3
y9
y4
y5
y5
y6
y6
y7
y8
y7
y9
y8
y10
b13+P
b15
y13+P
b5+P
b6+P
b8+P
y10
b5+P
y17+P

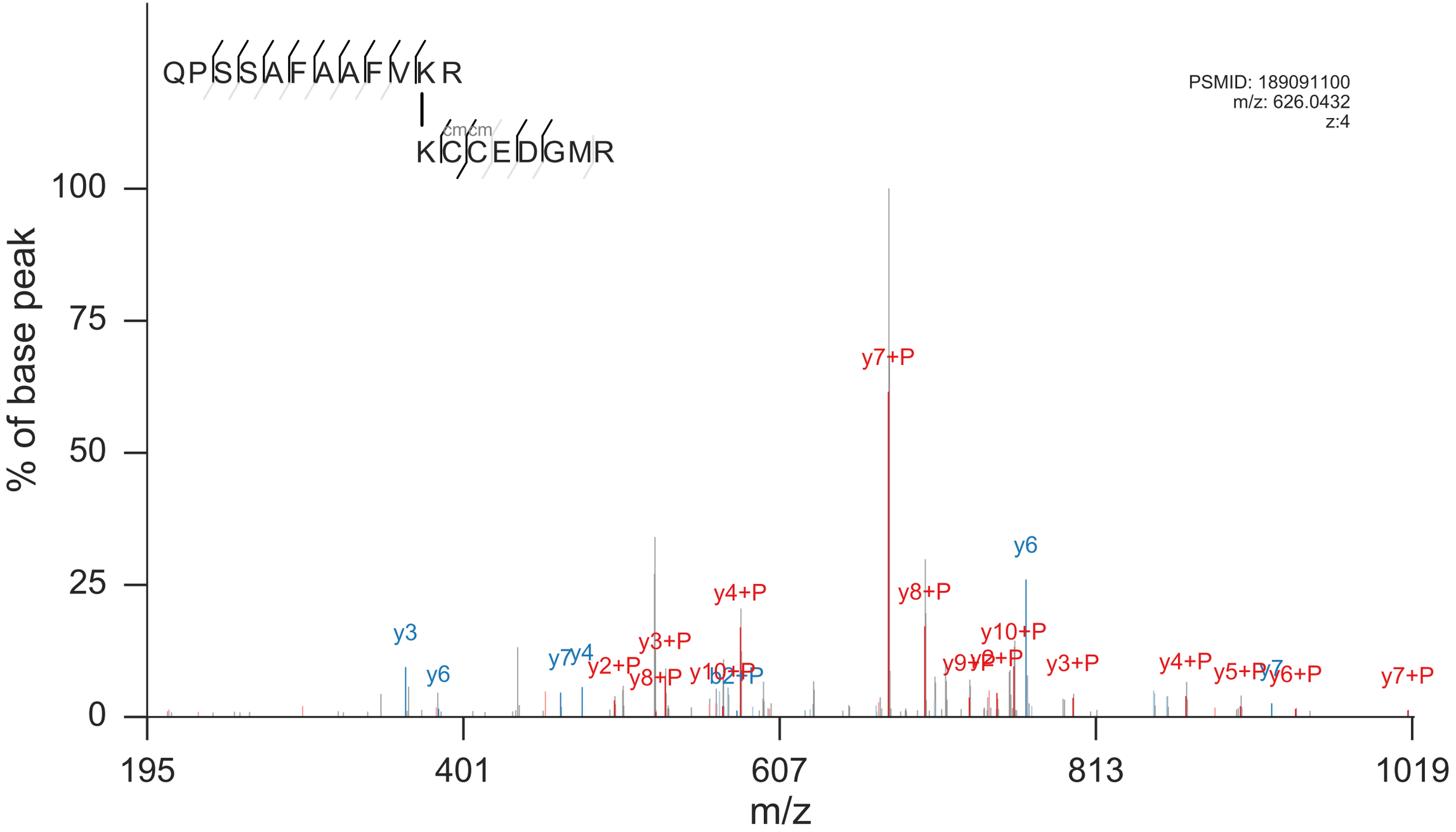

VTIKPAPETEKRPQDAK
SVQLTEKR
bs3-d4oh
PSMID: 189080652
m/z: 793.197
z:4
% of base peak
100
75
50
25
0
285
555
825
1095
m/z
y13+P
b15+P
y4
y5
y11+P
y14+P
b1+P
b2+P
y2
y3
y7+P
b2+P
b4+P
y7
b10
b3+P
y11+P
y12+P
y13+P
y4
y5
b4
y6
y7
b5
y5
b6
y9+P
y6

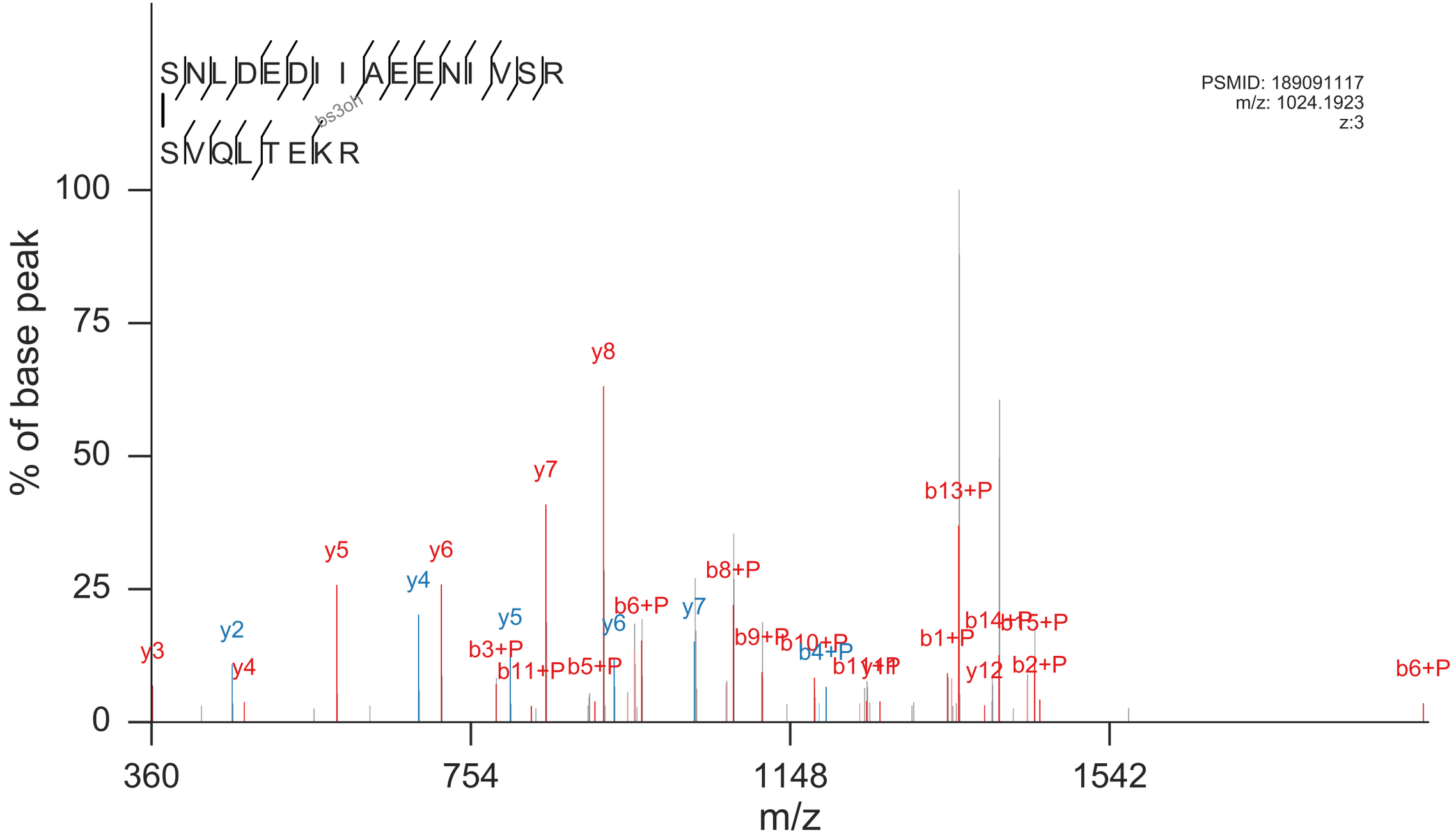

bs3-d4nh2
SVQLTEKR
ASHLGLAR
b1
PSMID: 189080663
m/z: 695.7421
z:3
% of base peak
100
75
50
25
0
150
484
818
1152
m/z
y1
y2
b2
y3
y6
y4
b3
y4+P
y5
y5+P
y6+P
b4
y2+P
y7+P
y6
y3+P
P+P+P
y4+P
y5+P
y6+P
y7+P
y7+P
b2+P

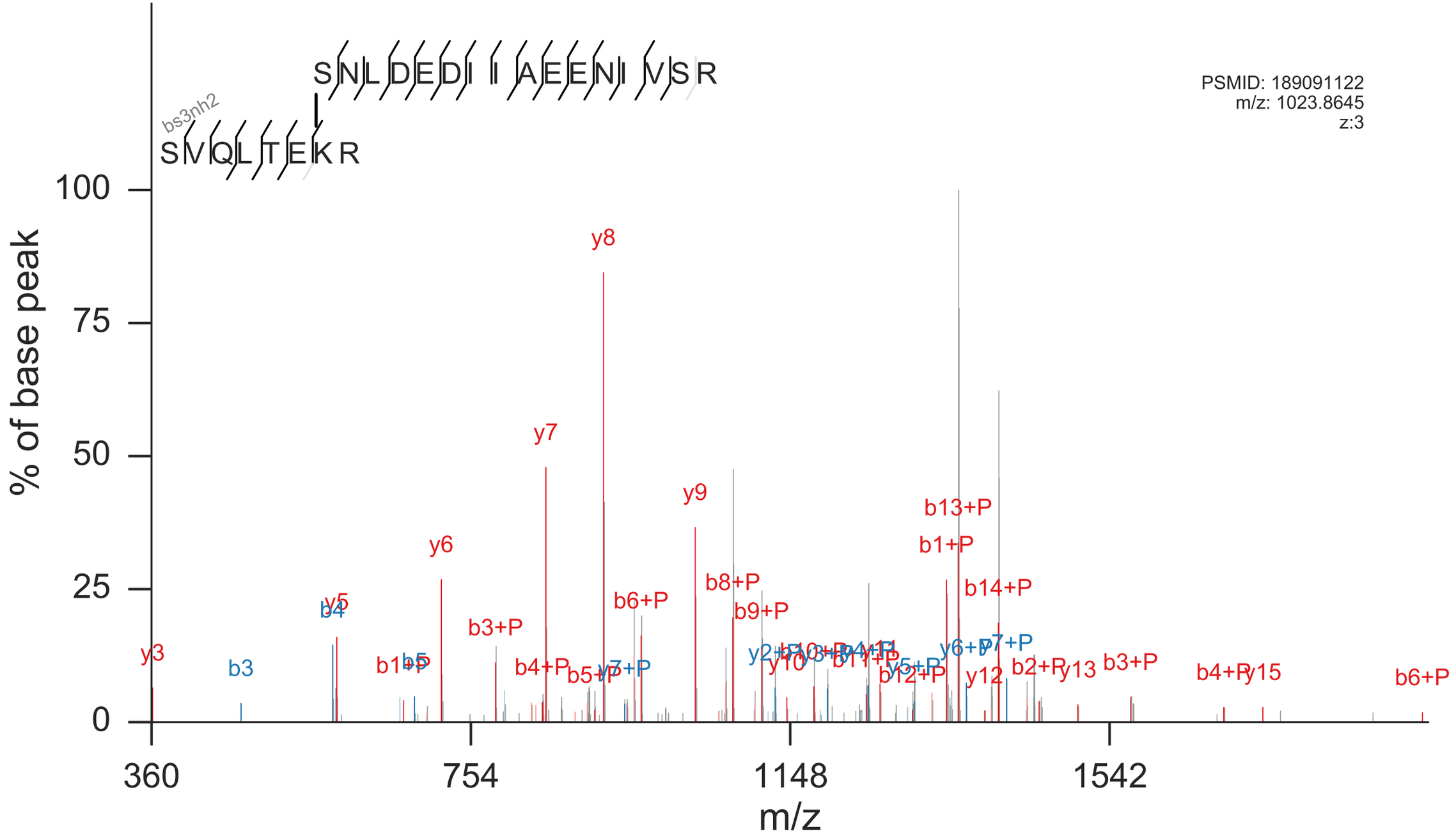

F I S L G E A C K K V F L D C C N Y I T E L R R
cm
cmcm
bs3-d4nh2
V G K Y P K
PSMID: 189080870
m/z: 996.7767
z:4
% of base peak
100
75
50
25
0
90
495
900
1305
m/z
y2
b2
b3
y1
y13
y14
y10
y12
y11
y17+P
y16+P
y19+P
y21+P
y23+P
y20+P
y22+P
y5
y7
y3
y9
b6
b7
b1

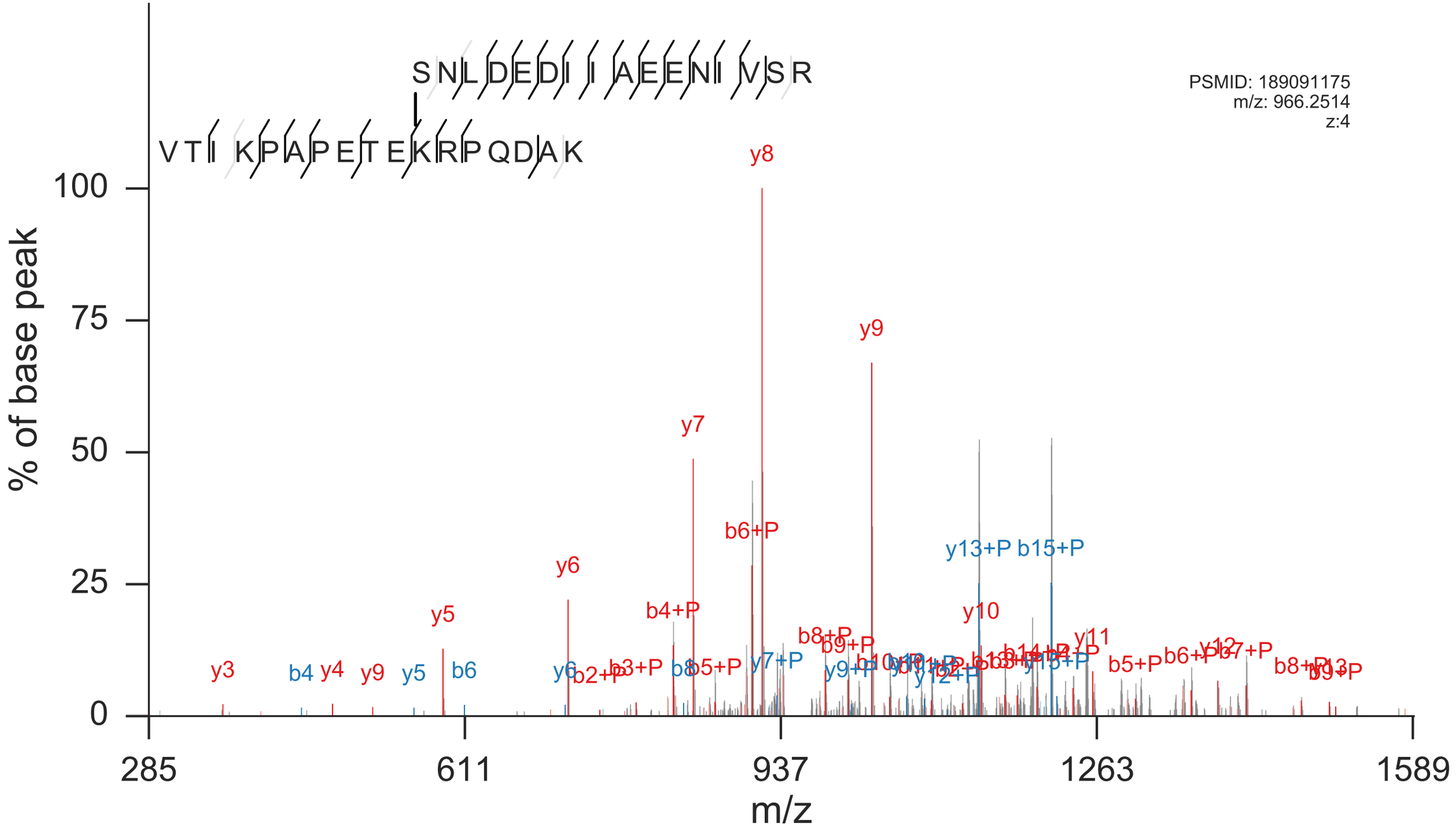

KVEGTAFVIFGIQDGEQR
HQQTVTIPPKSSLSVPYVIVPLK
PSMID: 189080900
m/z: 934.1175
z:5
% of base peak
100
75
50
25
0
105
641
1177
1713
2249
m/z
y9
y6
y8
y10
y4
y5
y3
y7
y11
y2
y8
y12
y1
b5
b6
b2
y4
y9
y10
y13
y13
y1
y5
b7
y6
y14
y15
y16
y4
b4
b5
b4

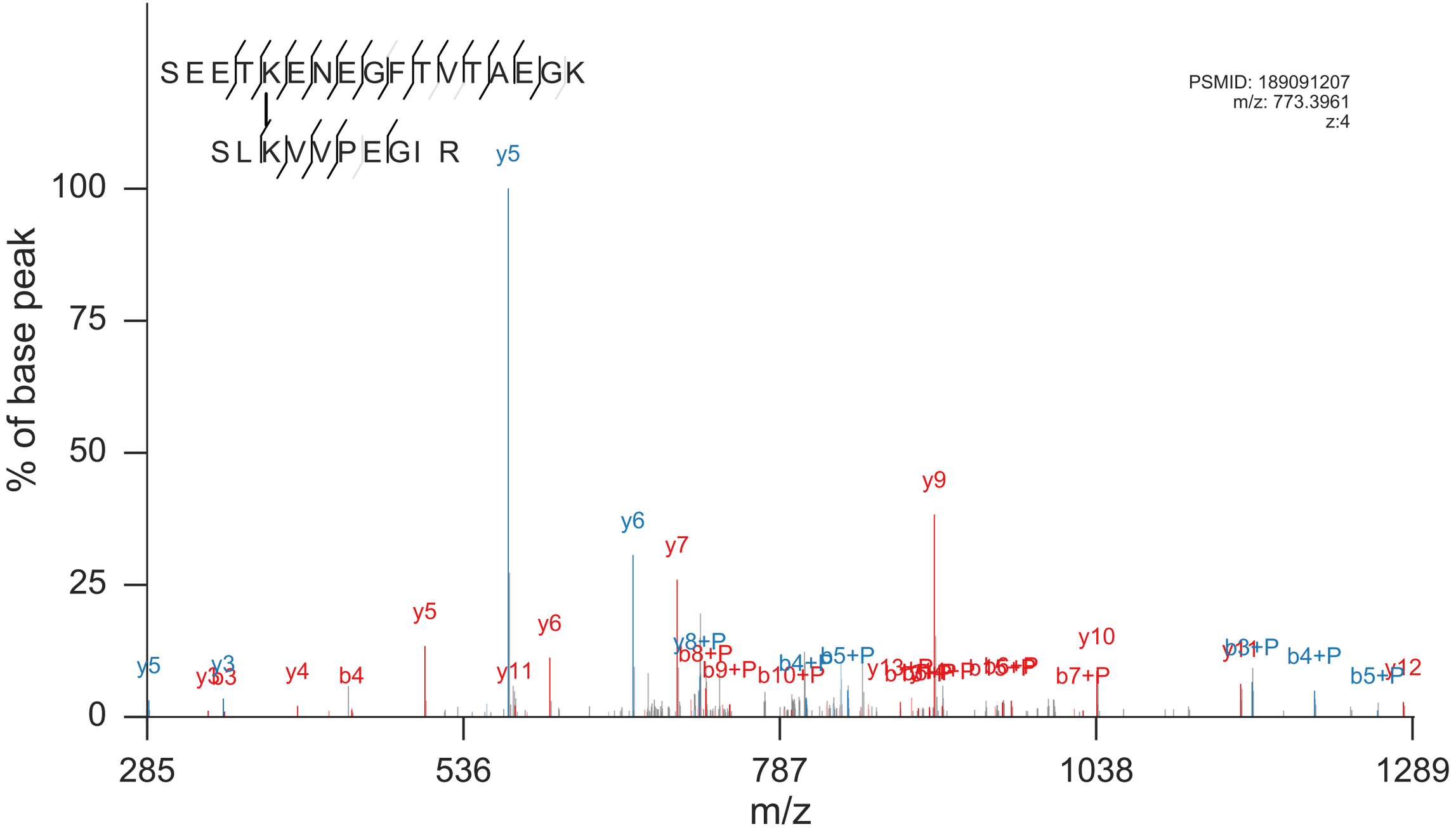

A D I G C T P G S G K D Y A G V F S D A G L T F T S S S G Q Q T A Q R
cm
bs3-d4nh2
L S I N T H P S Q K P L S I T V R
PSMID: 189080962
m/z: 1146.5831
z:5
% of base peak
100
75
50
25
0
150
581
1012
1443
1874
m/z
y1
y2
y3
y4
y5
y6
y7
y8
y9
y10
y11
y12
y13
b2
b3
b4
b5
b6
b7
b8
b12+P
b14+P
b16+P
b22+P
b23+P

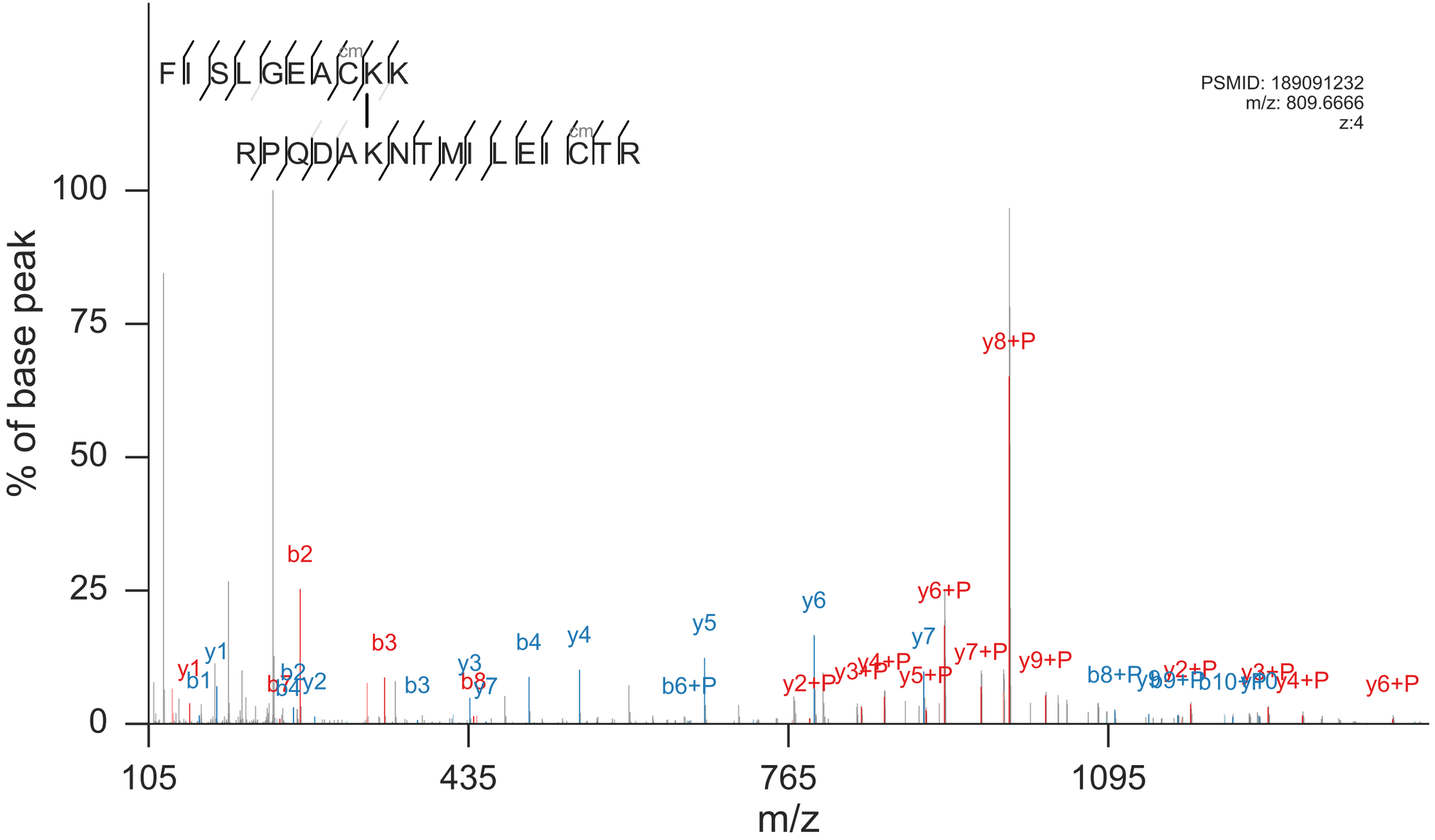

QPSSAFAAFVKR
KCCEDGMR
cm,cm
PSMID: 189091100
m/z: 626.0432
z:4
% of base peak
100
75
50
25
0
195
401
607
813
1019
m/z
y7+P
y6
y4+P
y8+P
y3
y3+P
y10+P
y7
y4
y2+P
y8+P
y6
y3+P
y4+P
y5+P
y6+P
y7+P

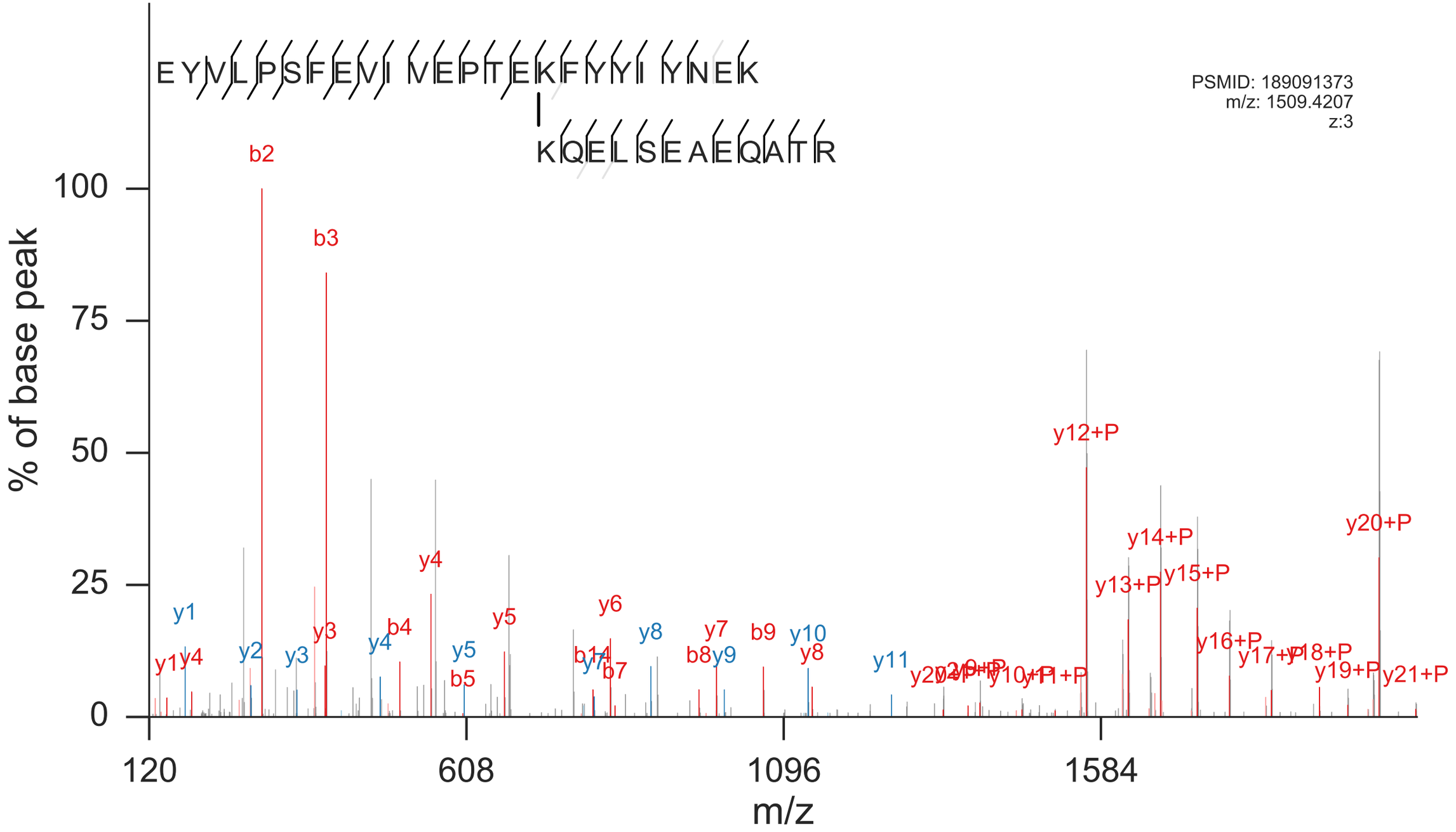

SNLDEDIIAEENIVSR
bs3oh
SVQLTEKR
PSMID: 189091117
m/z: 1024.1923
z:3
% of base peak
100
75
50
25
0
360
754
1148
1542
m/z
y8
y7
y5
y6
y4
y2
y3
y4
y5
b3+P
b11+P
b5+P
b6+P
y6
y7
b8+P
b9+P
b10+P
b4+P
b13+P
b1+P
b14+P
b15+P
y12
b2+P
b6+P

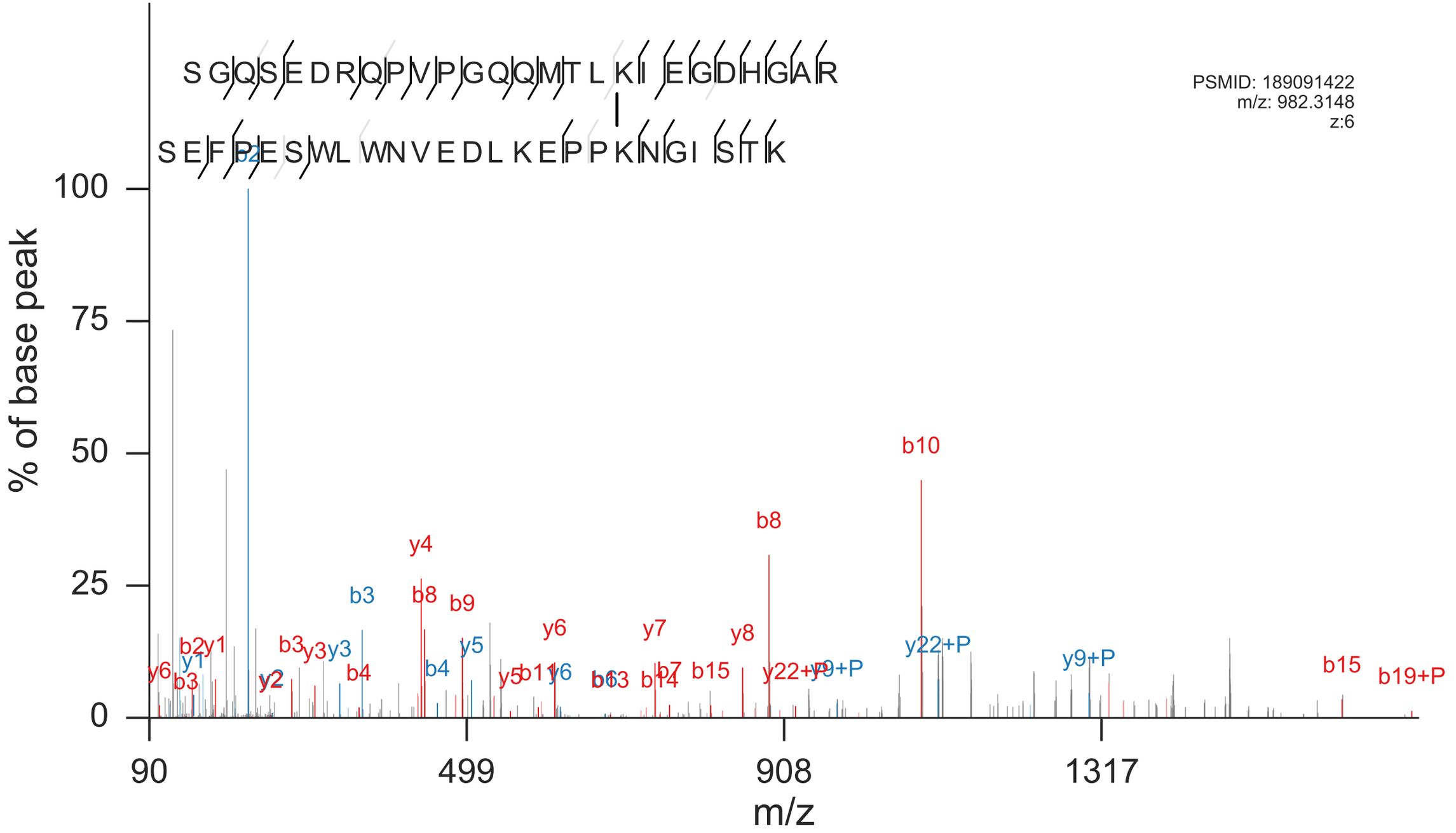

SNLDEDIIAEENIVSR
bs3nh2
SVQLTEKR
PSMID: 189091122
m/z: 1023.8645
z:3
% of base peak
100
75
50
25
0
360
754
1148
1542
m/z
y8
y7
y9
y6
b13+P
b1+P
b14+P
b8+P
b6+P
b9+P
b3+P
y5
b4
y3
b3
b1+P
b5
b4+P
b5+P
y7+P
y10
b12+P
y12
b2+P
y13
b3+P
b4+P
y15
b6+P

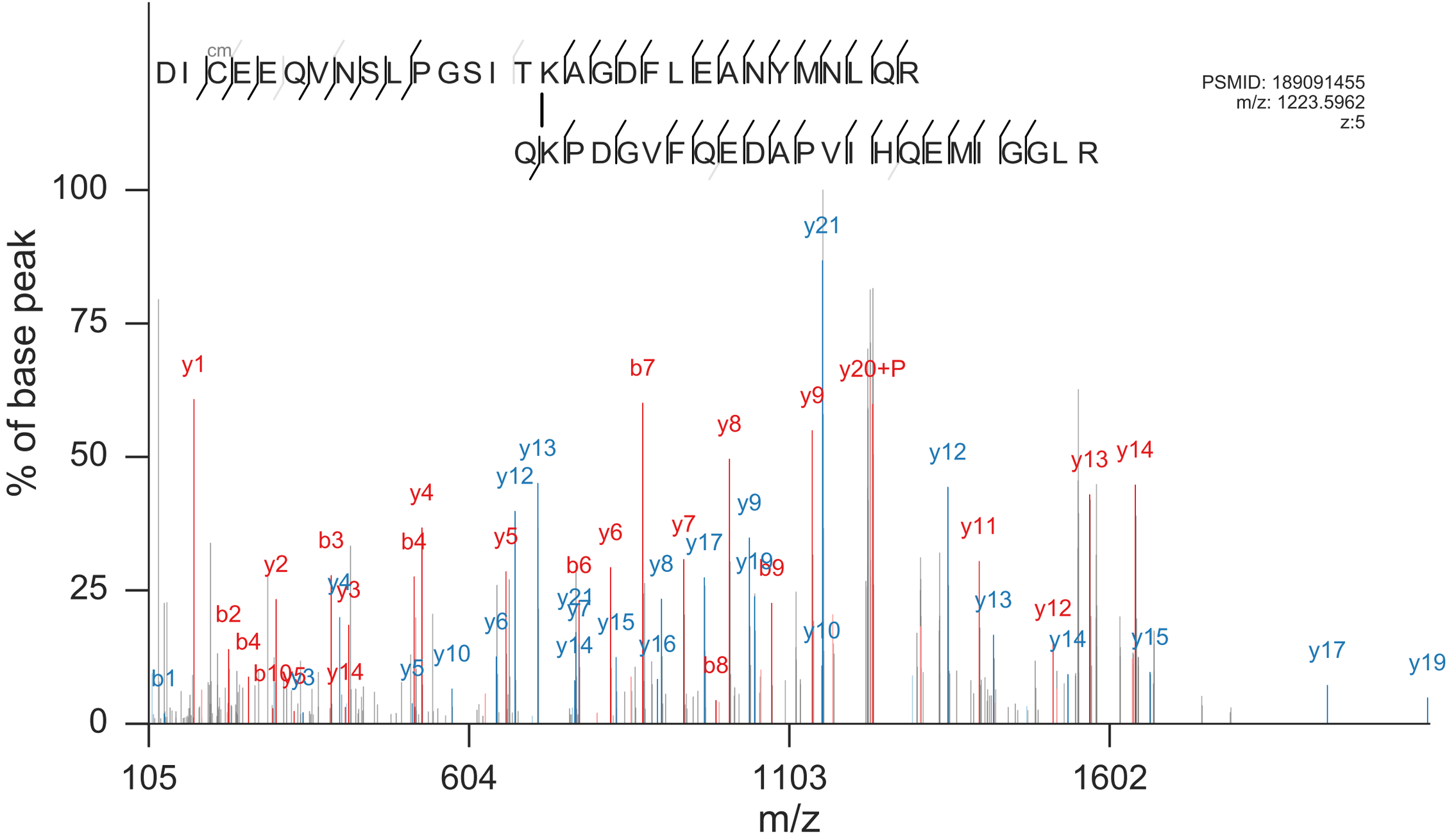

SNLDEDIIAEENIVSR
VTIKPAPETEKRPQDAK
PSMID: 189091175
m/z: 966.2514
z:4
% of base peak
100
75
50
25
0
285
611
937
1263
1589
m/z
y8
y9
y7
b6+P
y6
y5
b4+P
y13+P
b15+P
y10
b8+P
b9+P
y11
y12
y3
b4
y4
y9
y5
b6
b5+P
b6+P

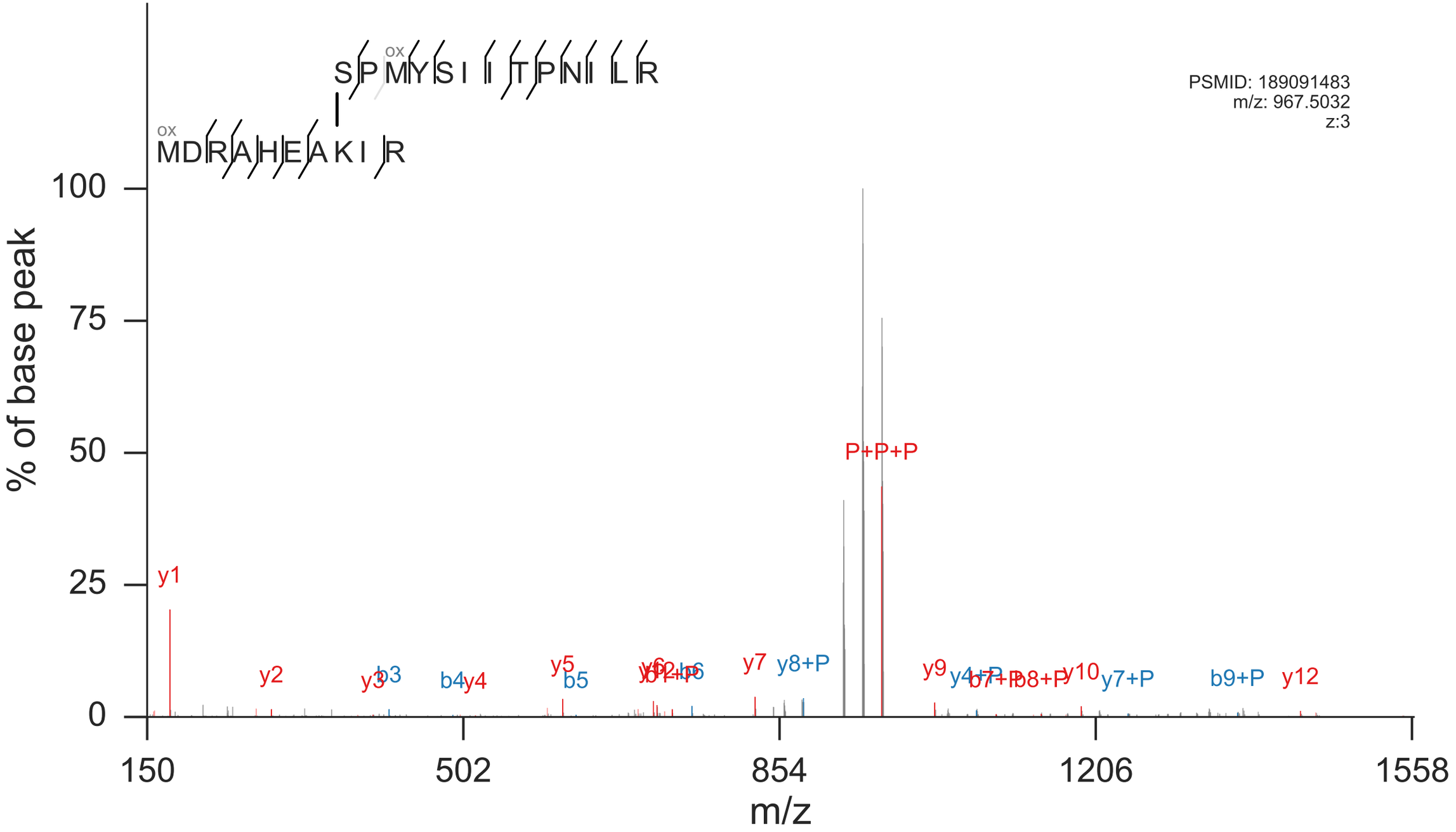

SEETKENEGFTVTAEGK
SLKVVPEGI R
PSMID: 189091207
m/z: 773.3961
z:4
% of base peak
100
75
50
25
0
285
536
787
1038
1289
m/z
y5
y6
y7
y9
y10
y11
y12
b4
b5+P
b7+P
b4+P
y8+P
b8+P
b9+P
b10+P

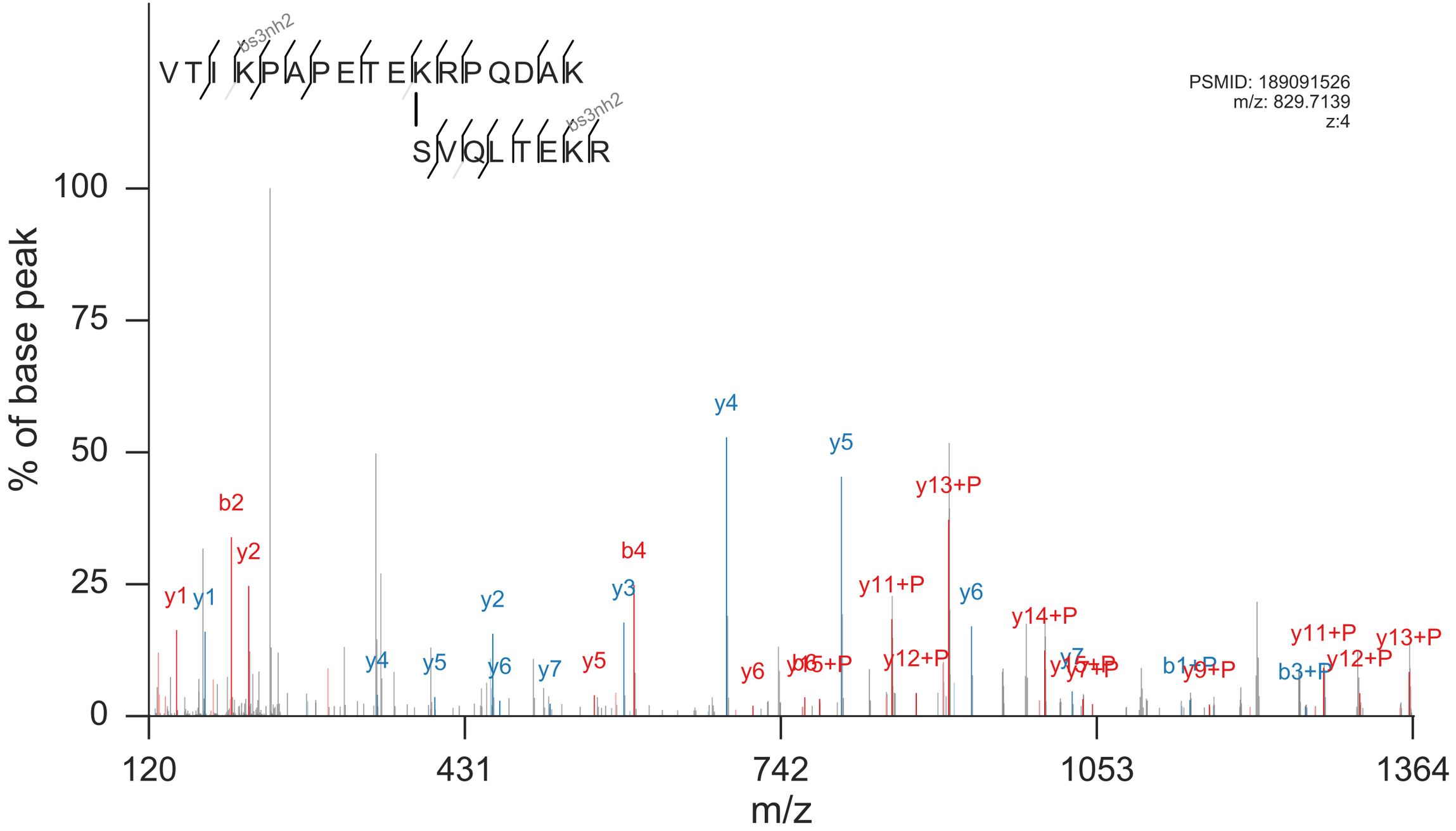

F I S L G E A C K K
cm
R P Q D A K N T M I L E I C T R
cm
PSMID: 189091232
m/z: 809.6666
z:4
% of base peak
100
75
50
25
0
105
435
765
1095
m/z
b2
y1
b1
y1
b2
b4
y2
b3
b3
y3
b8
y7
b4
y4
b6+P
y5
y6
y2+P
y6+P
y3+P
y4+P
y5+P
y7
y7+P
y8+P
y9+P
b8+P
y2+P
y3+P
y4+P
y6+P

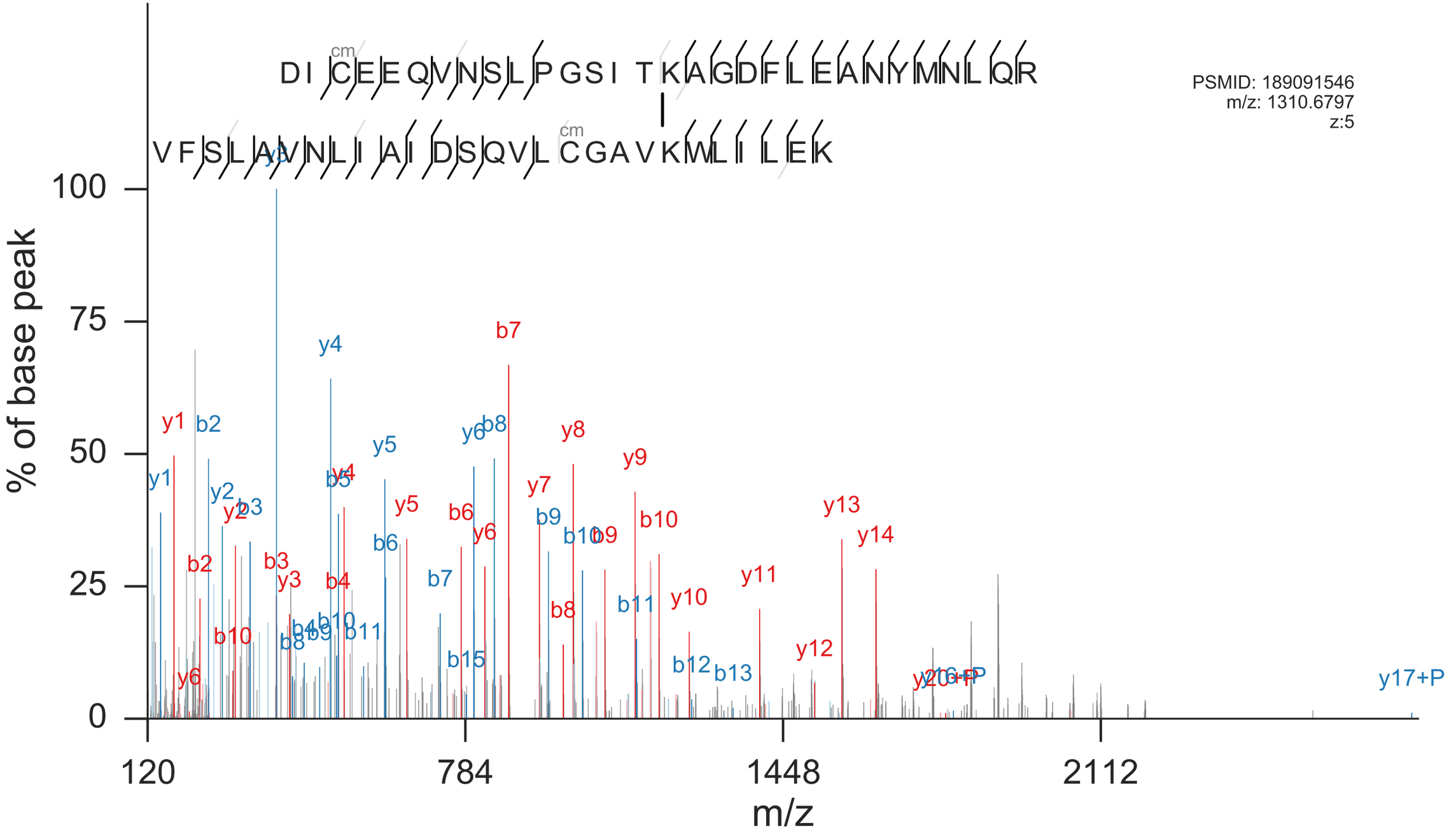

EYVLPSFEVIVEPTEKFYYIYNEK
KQELSEAEQATR
PSMID: 189091373
m/z: 1509.4207
z:3
% of base peak
100
75
50
25
0
120
608
1096
1584
m/z
b2
b3
y4
y1
y1
y4
y2
y3
y3
y4
b4
y5
y5
b5
y6
b14
y7
b7
y8
b8
y9
y7
b9
y10
y8
y11
y12+P
y13+P
y14+P
y15+P
y16+P
y17+P
y18+P
y19+P
y20+P
y21+P

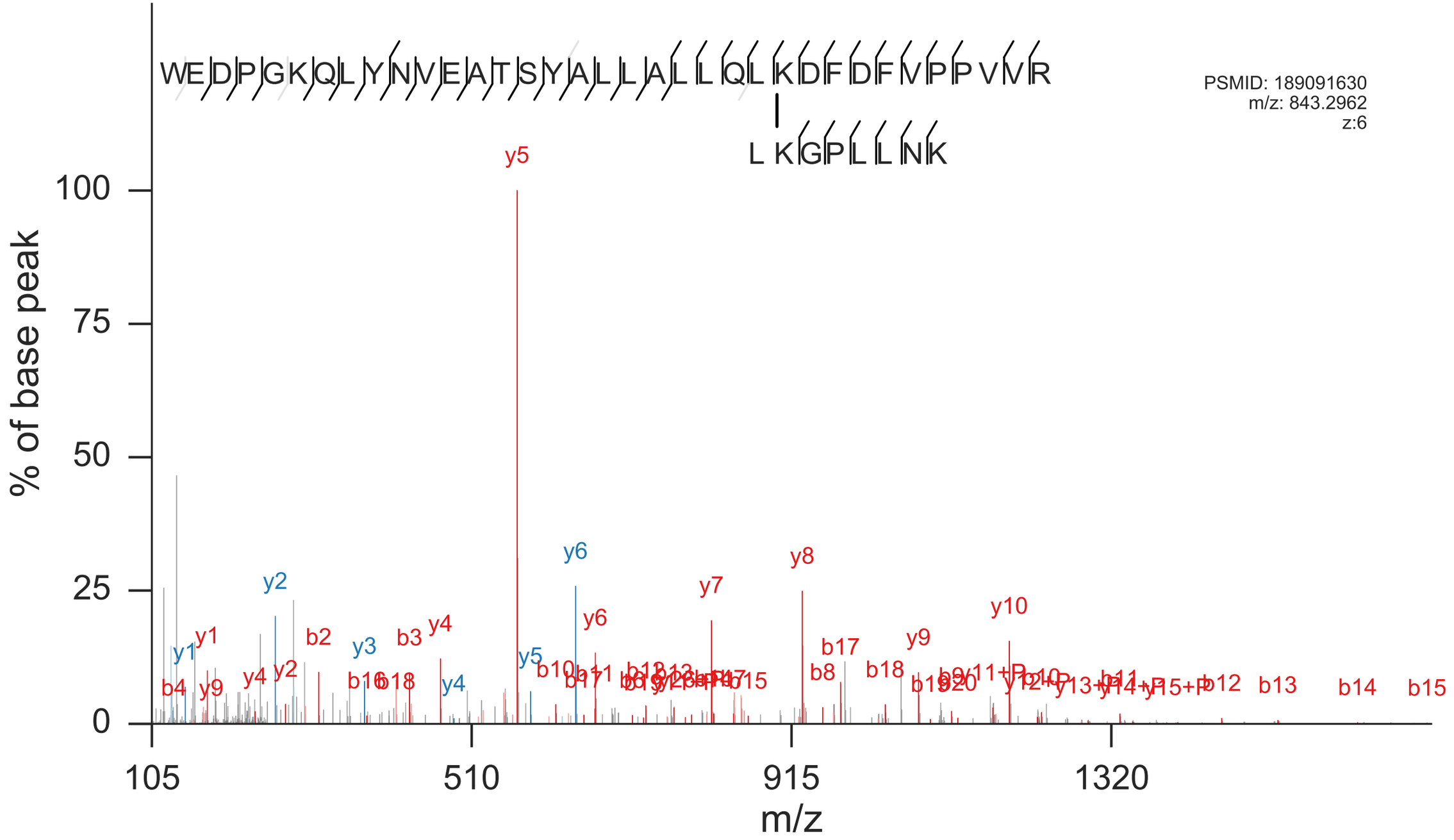

S G Q S E D R Q P V P G Q Q M T L K I E G D H G A R
S E F D E S W L W N V E D L K E P P K N G I S T K
PSMID: 189091422
m/z: 982.3148
z:6
% of base peak
100
75
50
25
0
90
499
908
1317
m/z
b10
b8
y4
b3
b8
b9
y6
y7
y8
y5
b2
y1
b3
y3
y3
y6
y5
b11
y6
b6
b3
b14
b7
b15
y22+P
y9+P
y22+P
y9+P
b15
b19+P
y1
b3
y2
b4
b4

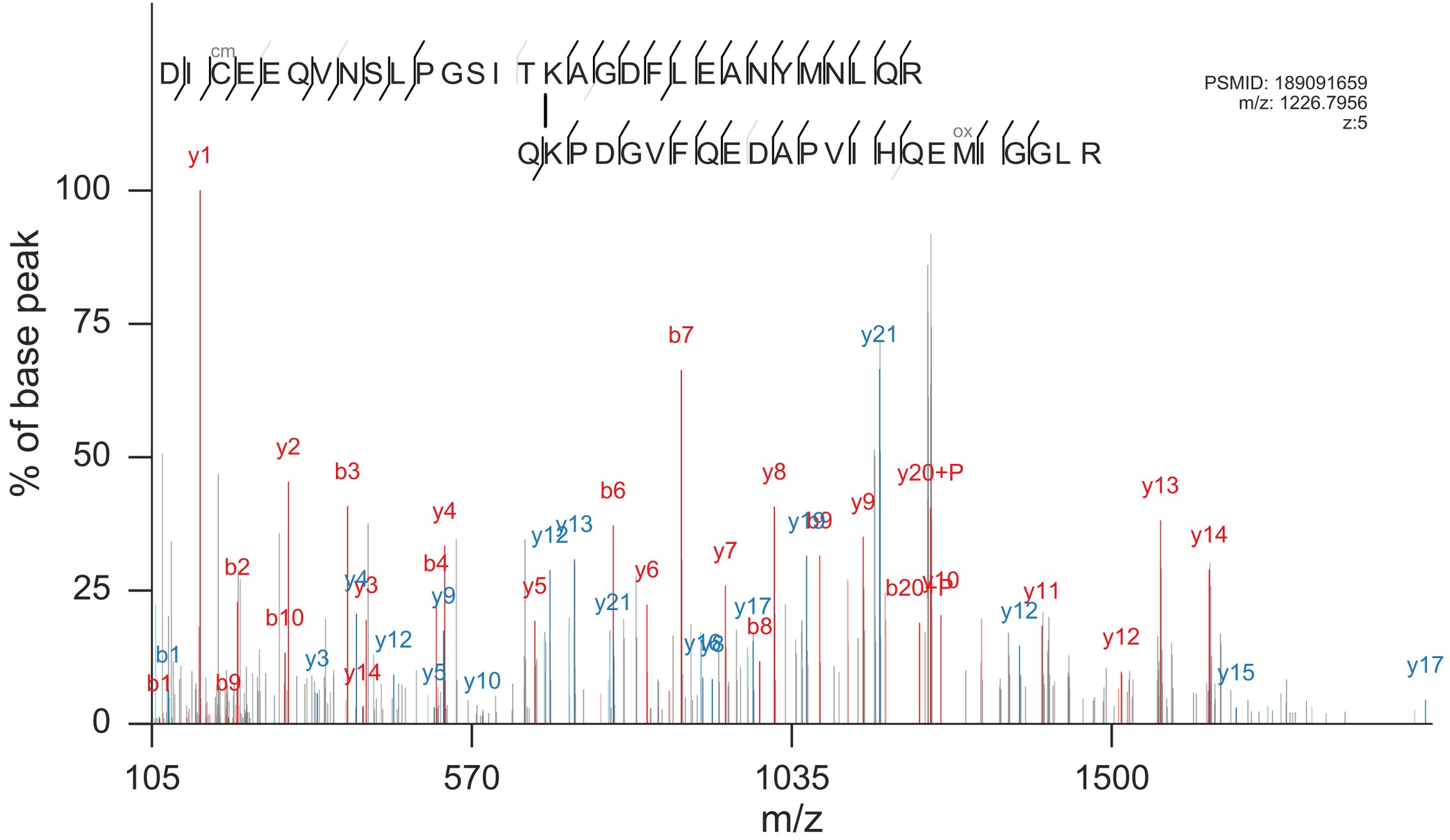

DI CmCEEQVNSLPGSITKAGDFLEANYMNLQR
QKPDGVFQEDAPVIHQEMIGGLR
PSMID: 189091455
m/z: 1223.5962
z:5
% of base peak
100
75
50
25
0
105
604
1103
1602
m/z
y21
y1
b7
y20+P
y9
y8
y13
y12
y4
y5
y6
y7
y17
y19
b6
y11
b3
b4
y2
y3
b2
b1
b10
y14
y15
y16
b8
y10

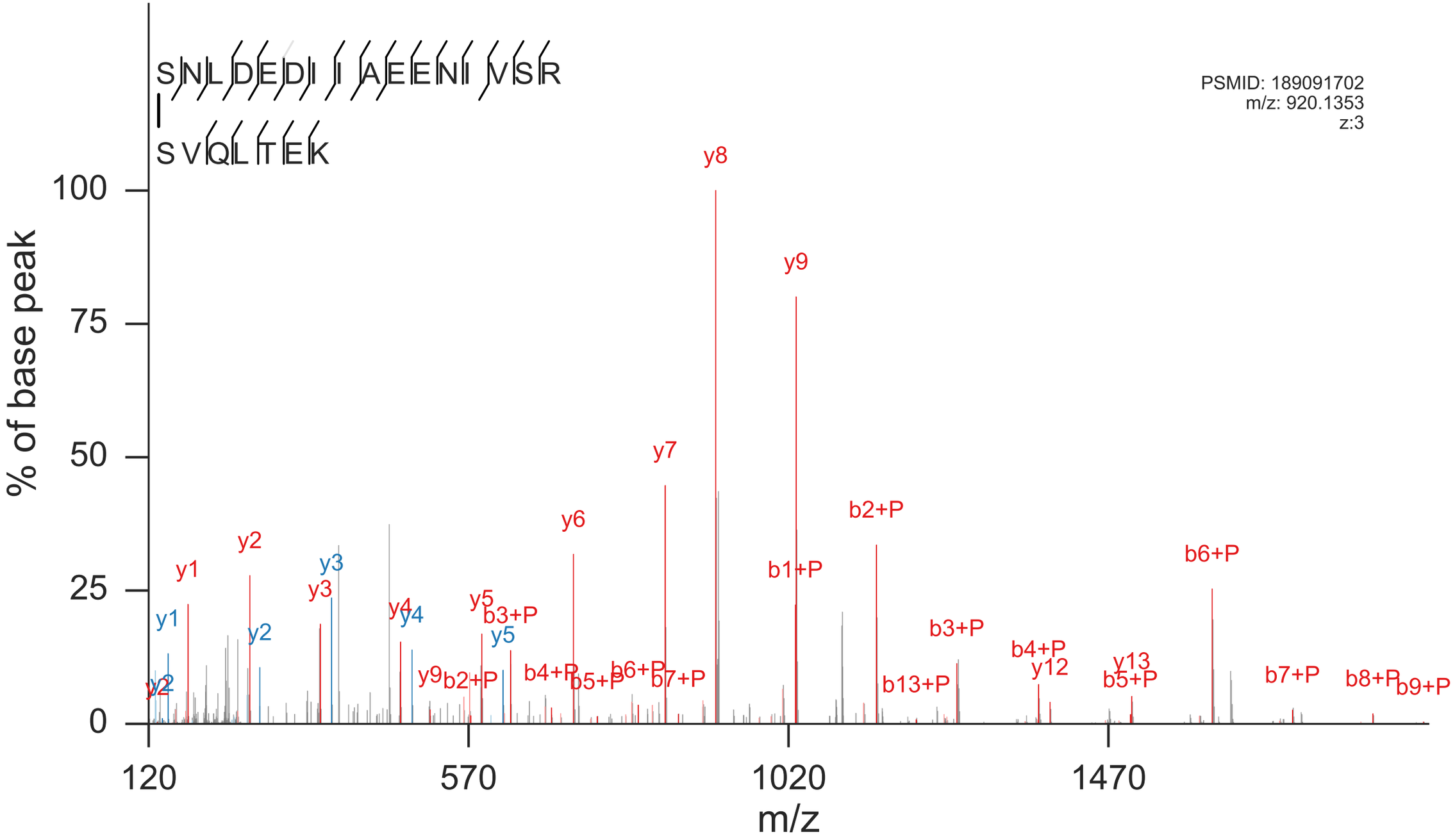

ox
SPMYSIITPNILR
ox
MDRAHEAKIR
PSMID: 189091483
m/z: 967.5032
z:3
% of base peak
100
75
50
25
0
150
502
854
1206
1558
m/z
y1
y2
y3
b3
b4
y4
y5
b5
y6
b6
y7
y8+P
P+P+P
y9
y4+P
b7+P
b8+P
y10
y7+P
b9+P
y12

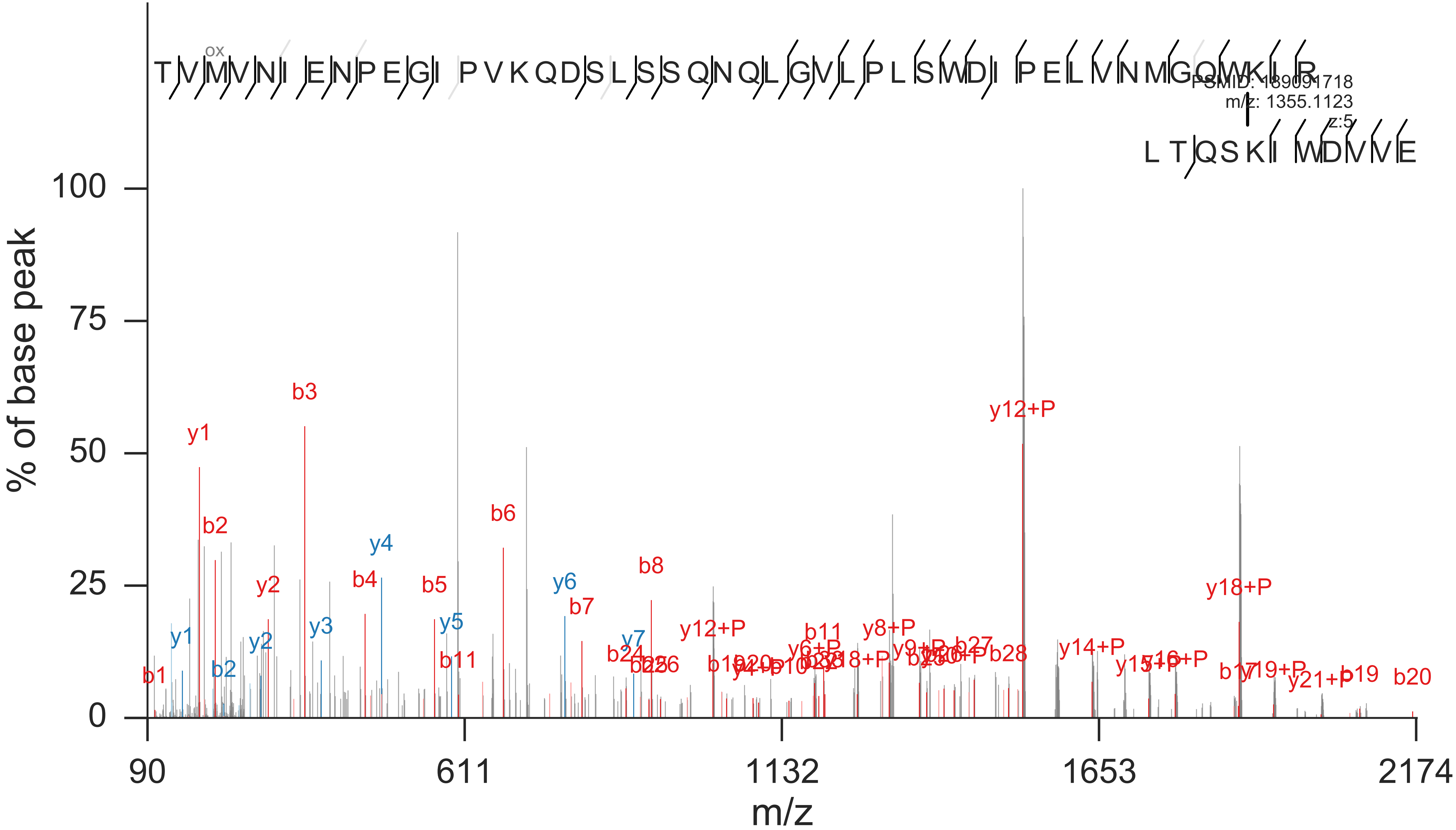

VTI KPAPETEKRPQDAK
-ds3nh2
SVQLTEKR
-ds3nh2
PSMID: 189091526
m/z: 829.7139
z:4
% of base peak
100
75
50
25
0
120
431
742
1053
1364
m/z
y4
y5
y13+P
b2
y2
b4
y3
y11+P
y6
y14+P
y1
y1
y2
y4
y5
y6
y7
y5
y6
y12+P
y11+P
y13+P
b3+P
y12+P


DICEEQVNSLPGSITKAGDFLEANYMNLQR
cm
cm
VFSLAAVNLIAIDSQVLCGAVKMLILEK
PSMID: 189091546
m/z: 1310.6797
z:5
% of base peak
100
75
50
25
0
120
784
1448
2112
m/z
y1
b2
y2
b3
y3
b4
y4
b5
y5
b6
y6
b7
b8
y7
b9
y8
b10
y9
b11
y10
y11
b12
b13
y12
b15
y13
y14
y17+P

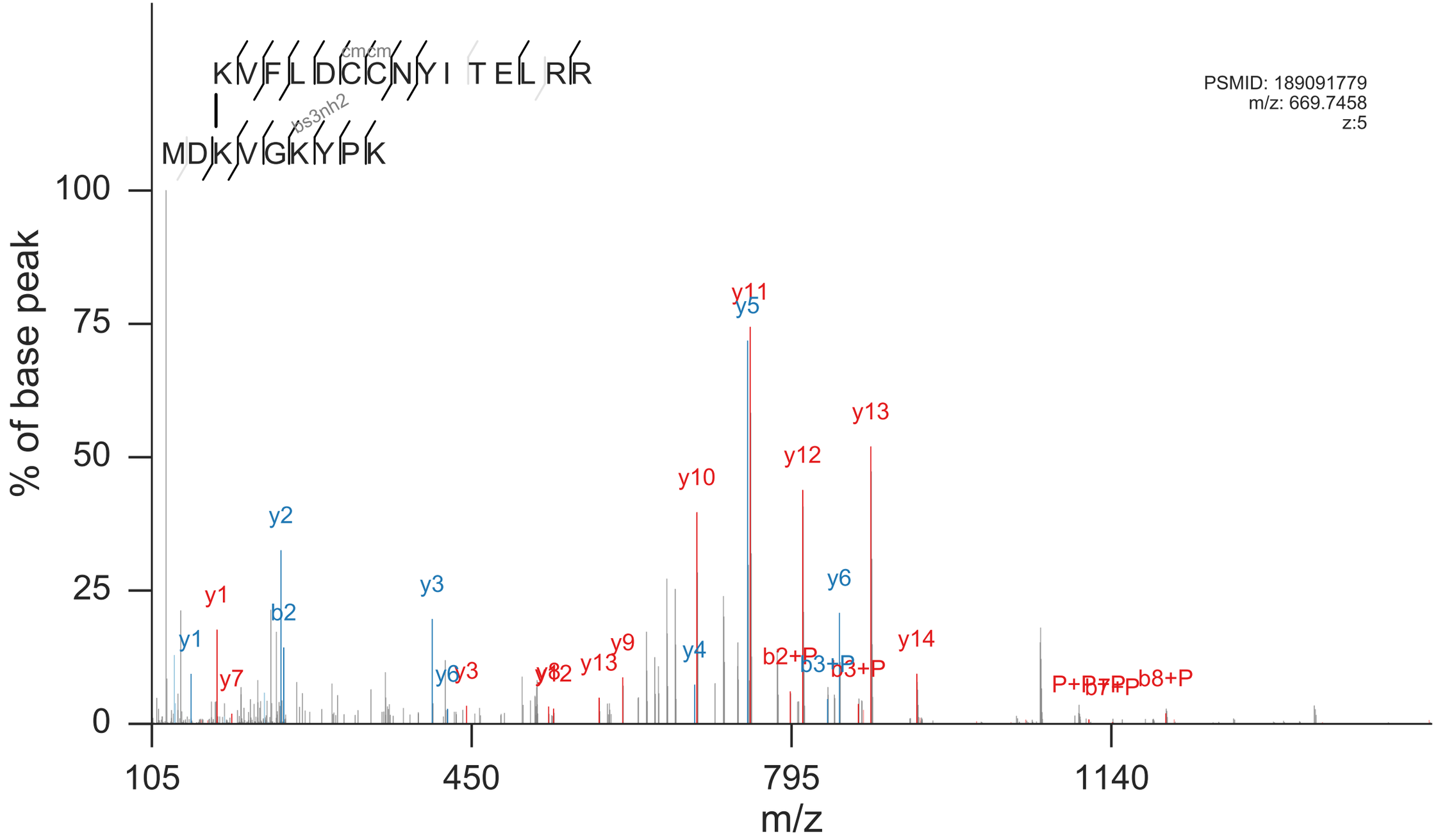

WEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVR
LKGPLLNK
PSMID: 189091630
m/z: 843.2962
z:6
% of base peak
100
75
50
25
0
105
510
915
1320
m/z
y5
y6
y8
y7
y10
y2
y1
b2
y3
b3
y4
b17
y9
b8
b18
b12
b13
b14
b15

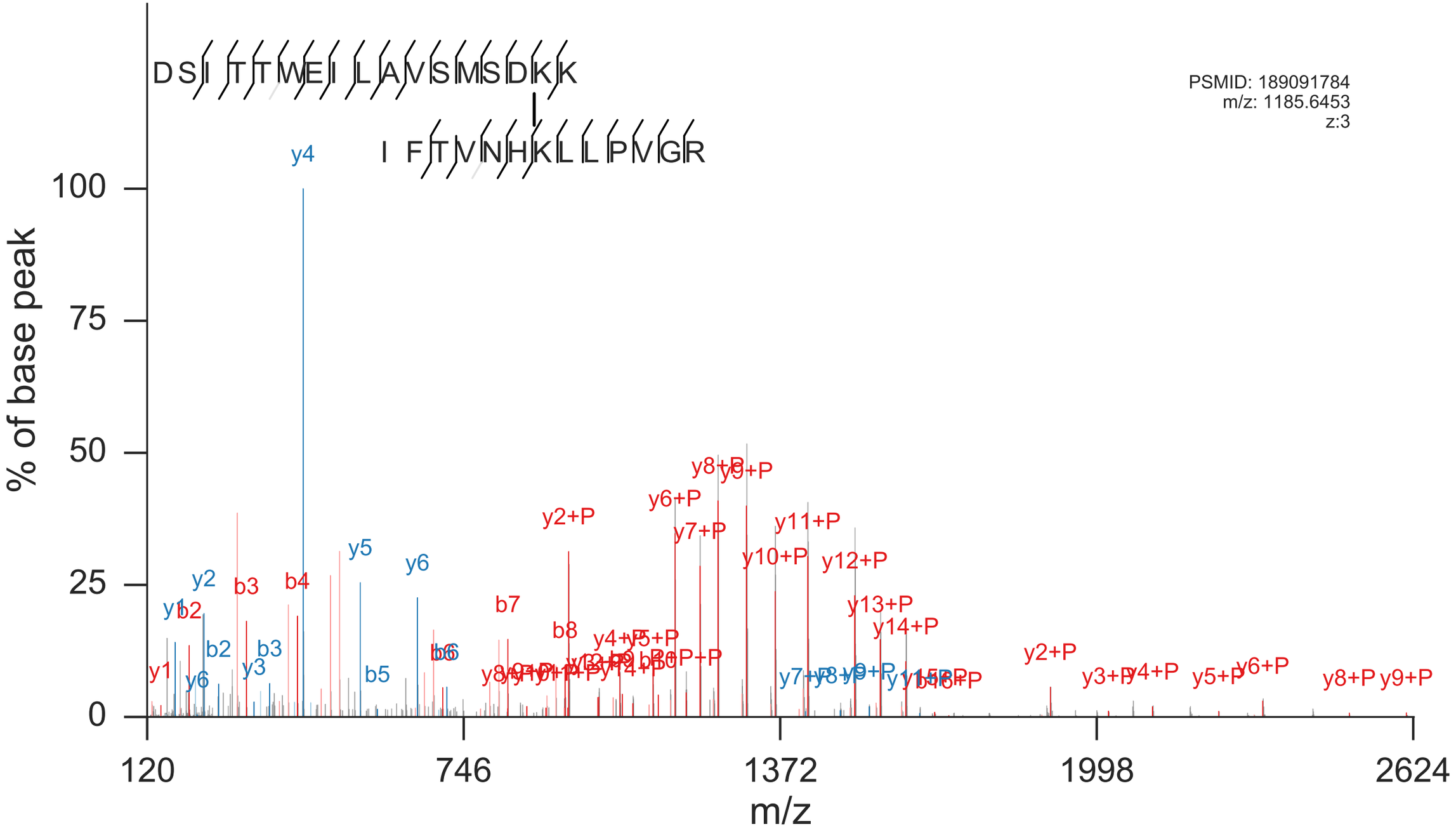

DI CmCEEQVNSLPGSITKAGDFLEANYMNLQR
QKPDGVFQEDAPVIHQEMoxIGGLR
PSMID: 189091659
m/z: 1226.7956
z:5
% of base peak
100
75
50
25
0
105
570
1035
1500
m/z
y1
y2
b3
b6
b7
y21
y8
y20+P
y13
y14
y4
y9
y12
y13
y7
b2
y6
b4
y5
y21
y17
b8
y11
y12
y12
b10
y3
y12
b1
y3
y14
y5
y10
y15
y17
b1
b9

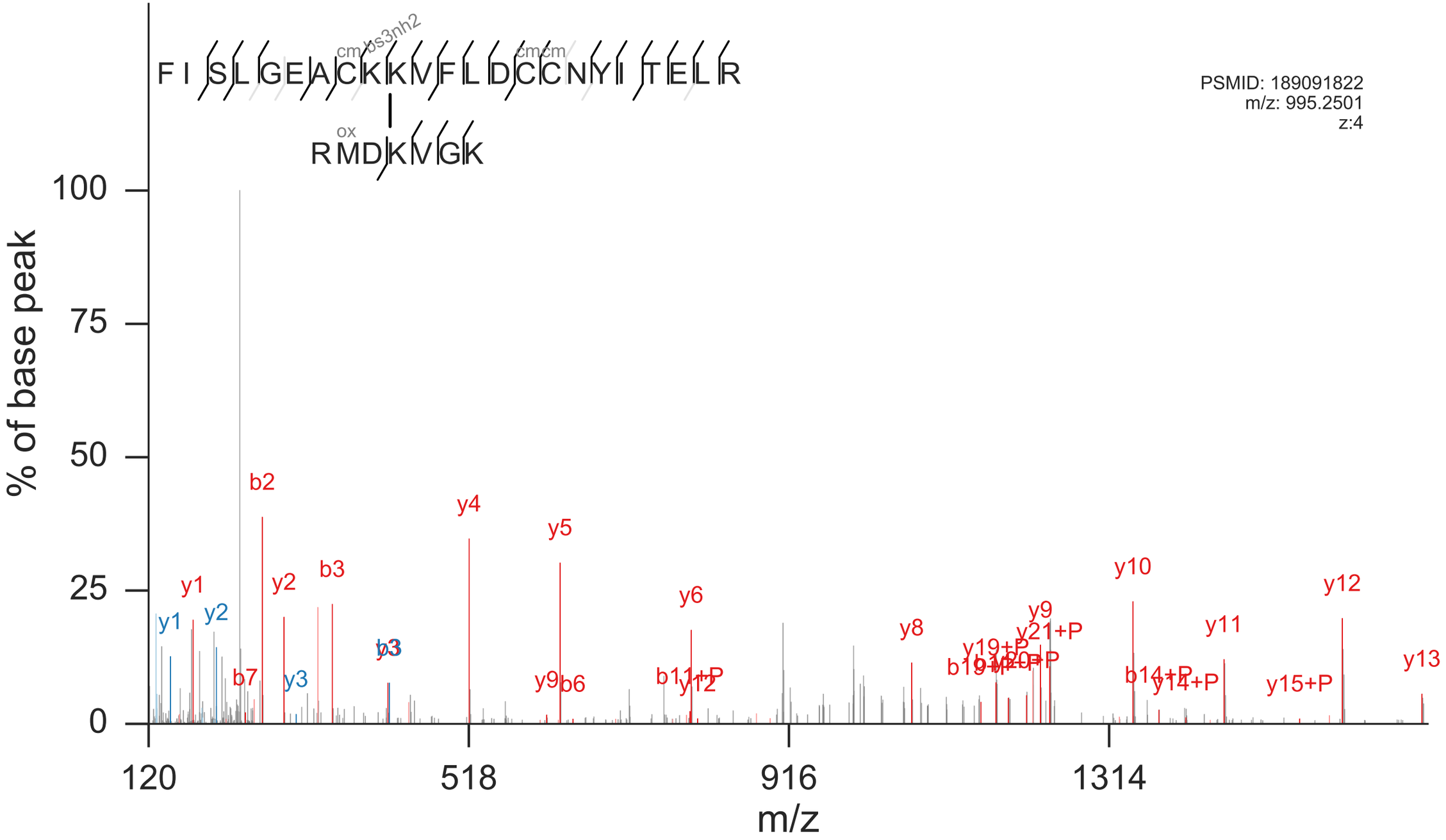

SNLDEDIIAEENIVSR
SVQLTEK
PSMID: 189091702
m/z: 920.1353
z:3
% of base peak
100
75
50
25
0
120
570
1020
1470
m/z
y8
y9
y7
y6
y2
y1
y3
y3
y4
y4
y5
b3+P
y5
y1
y2
y2
y2
y9
b2+P
b4+P
b5+P
b6+P
b7+P
b1+P
b2+P
b3+P
b4+P
y12
b13+P
y13
b5+P
b6+P
b7+P
b8+P
b9+P

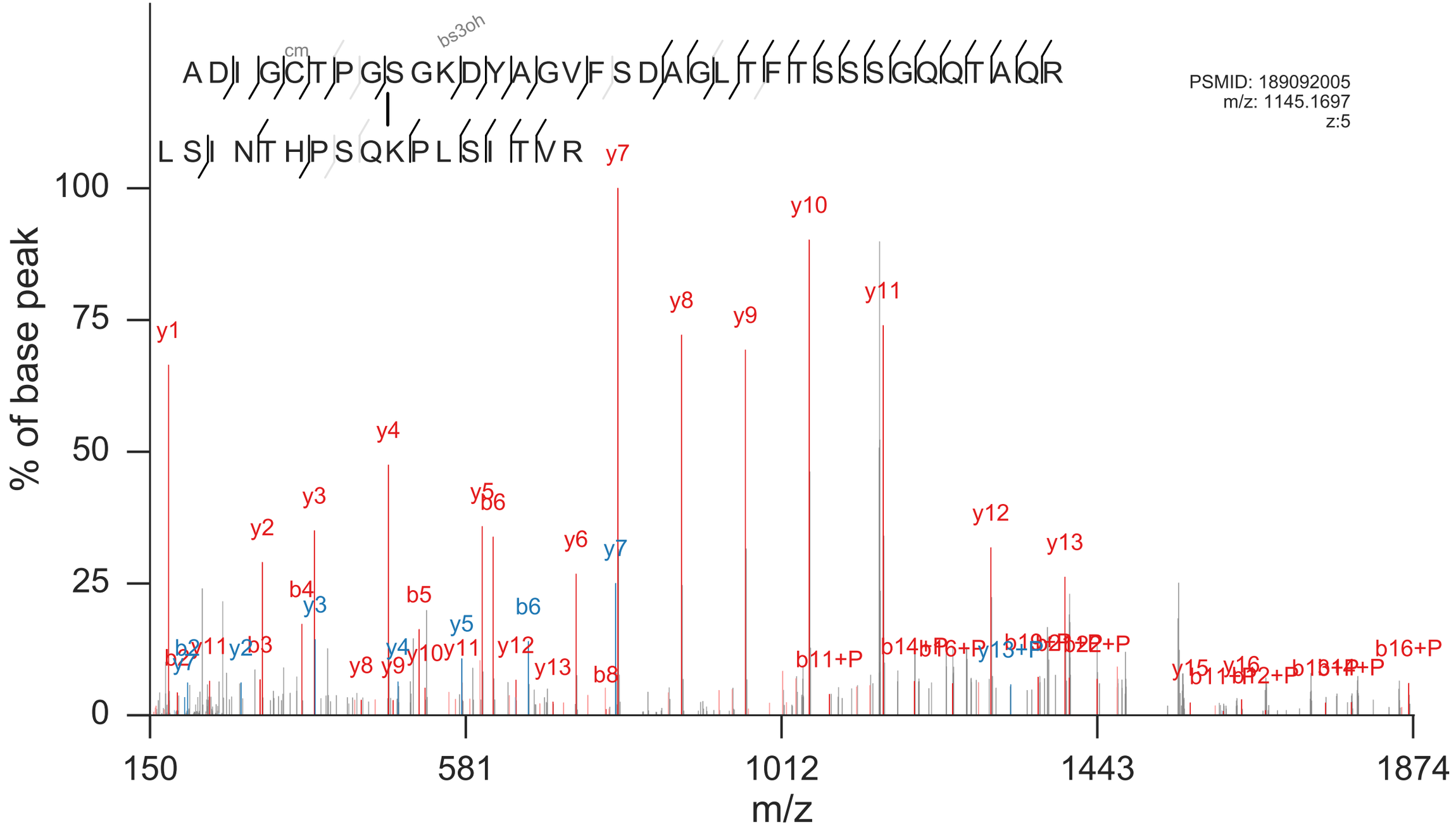


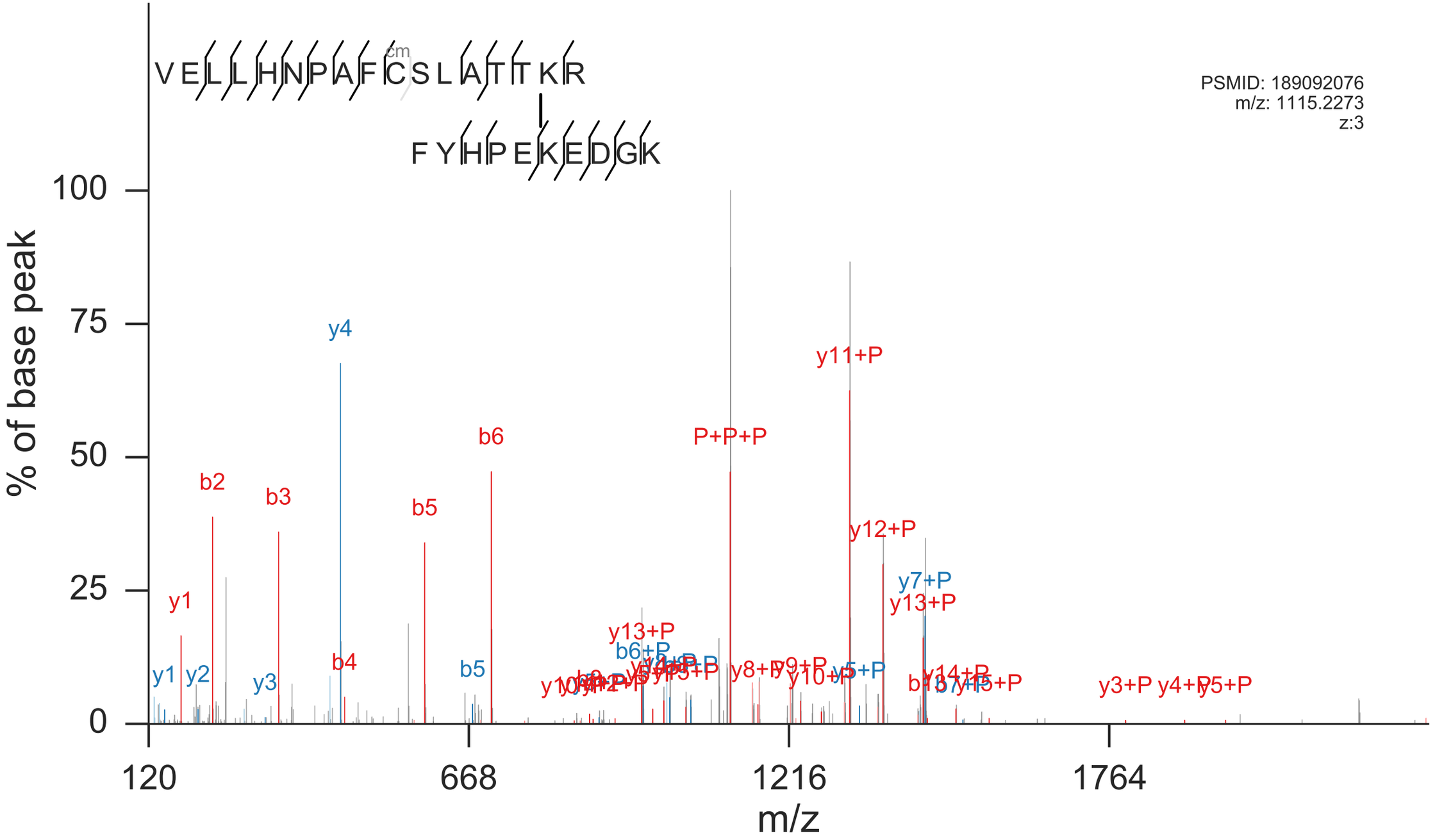
TVMVNIENPEGIPVKQDSLSSQNQLGVLPLSWDIPELVNMGQWKLR
ox
LTQSKIWDVVE
PSMID: 189091718
m/z: 1355.1123
z:5
% of base peak
m/z

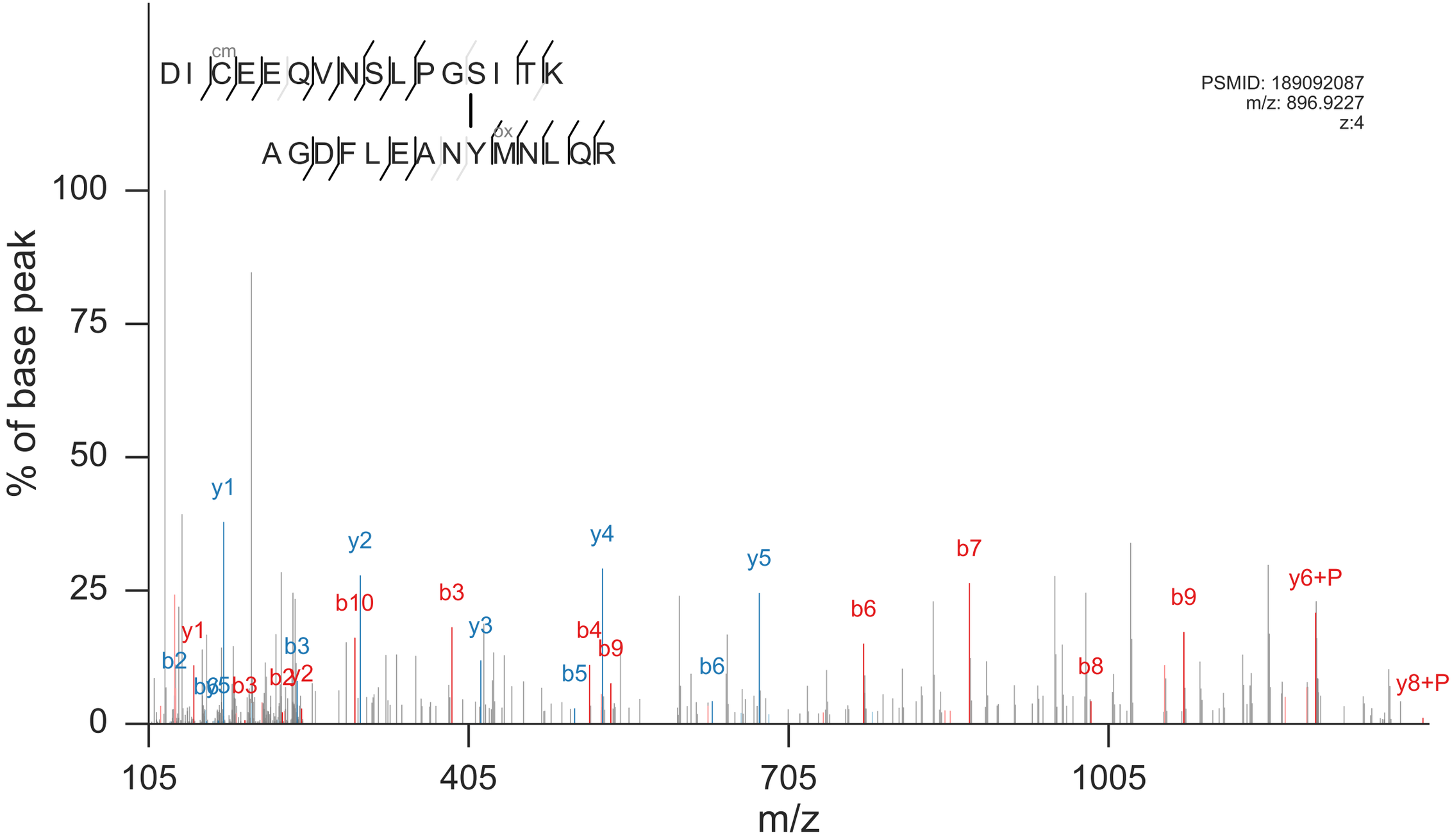

KVFLDCCNYITELRR
cm,cm
MDKVGKYPK
ds3nh2
PSMID: 189091779
m/z: 669.7458
z:5
% of base peak
100
75
50
25
0
105
450
795
1140
m/z
y11
y5
y13
y12
y10
y2
y6
y3
y1
b2
y14
y9
y4
y7
y13
b2+P
b3+P
b3+P
b8+P

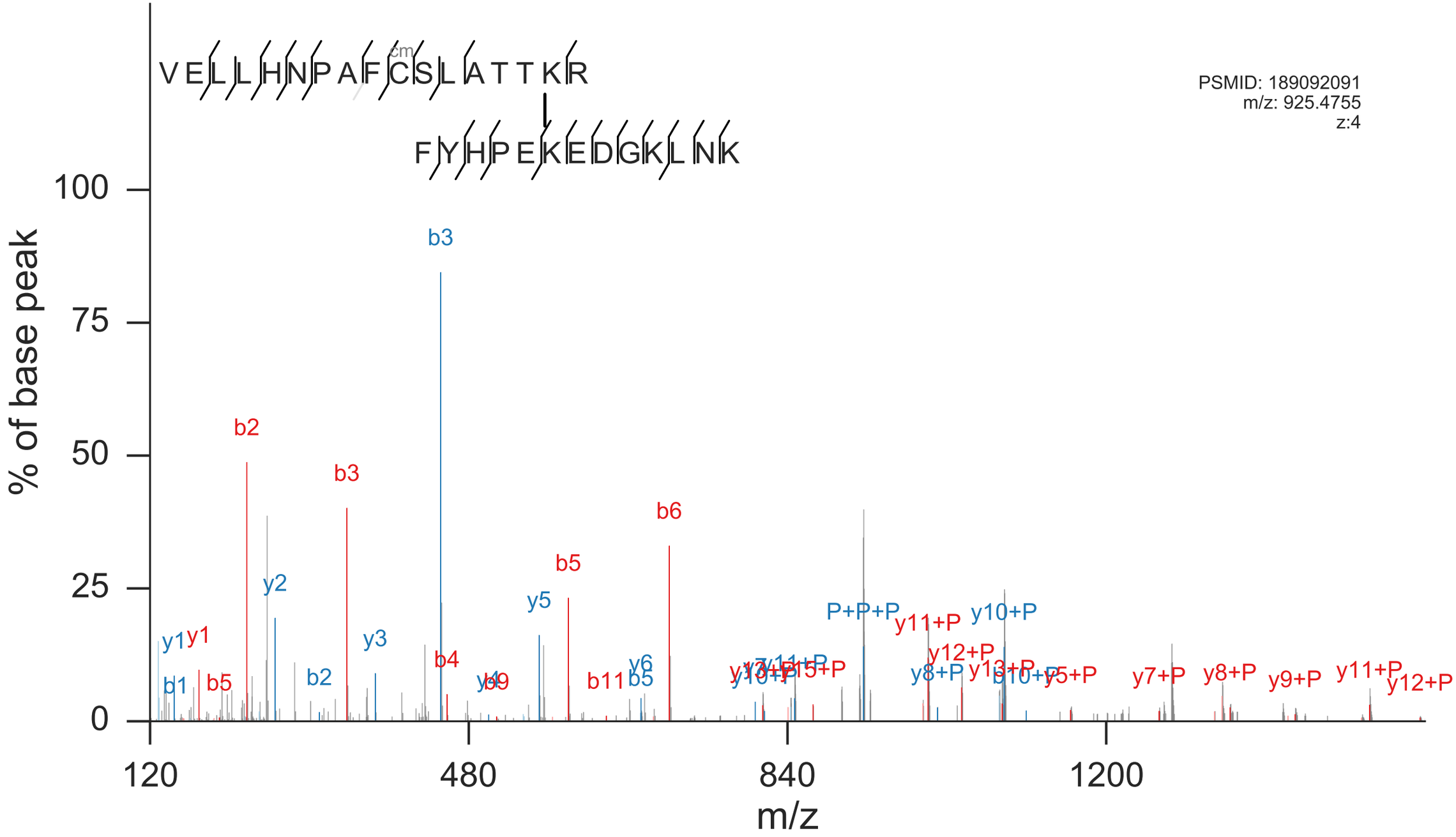

DSITTWEILAVSMSDKK
IFTVNHKLLPVGR
PSMID: 189091784
m/z: 1185.6453
z:3
% of base peak
100
75
50
25
0
120
746
1372
1998
2624
m/z
y4
y5
y6
y2
b3
b4
b2
y1
b5
b7
b8
y3
y2+P
y6+P
y7+P
y8+P
y9+P
y10+P
y11+P
y12+P
y13+P
y14+P
y3+P
y4+P
y5+P
y6+P
y8+P
y9+P

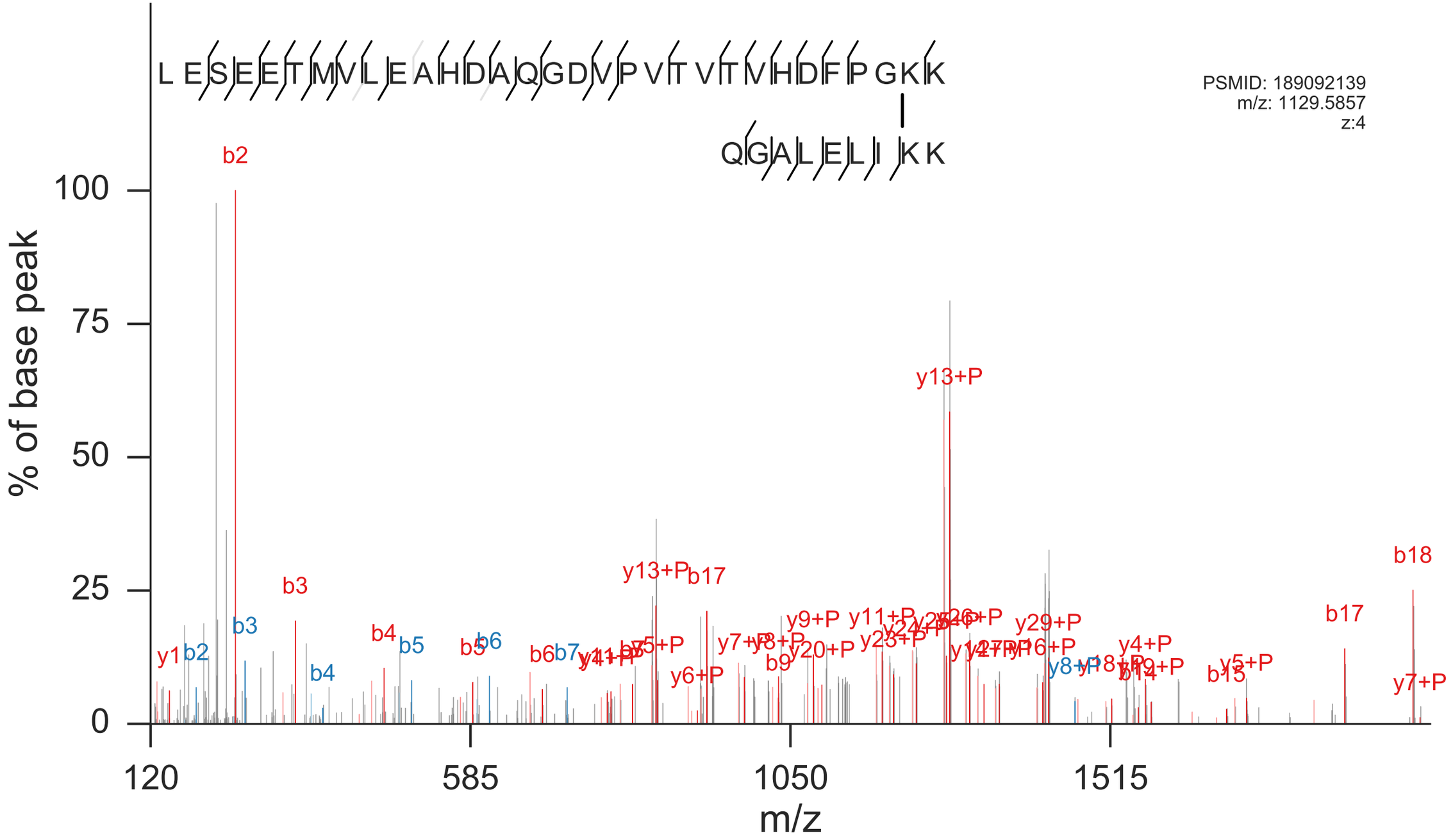

F I S L G E A C K K V F L D C C N Y I T E L R
cmcmss3nh2
cmcm
ox
R M D K V G K
PSMID: 189091822
m/z: 995.2501
z:4
% of base peak
100
75
50
25
0
120
518
916
1314
m/z
b2
y4
y5
b3
y1
y2
y6
y10
y12
y9
y8
y11
y13
y21+P
y19+P
y15+P
y14+P
b14+P
b11+P
b7
y3
y9
b6
y12
y1
y2

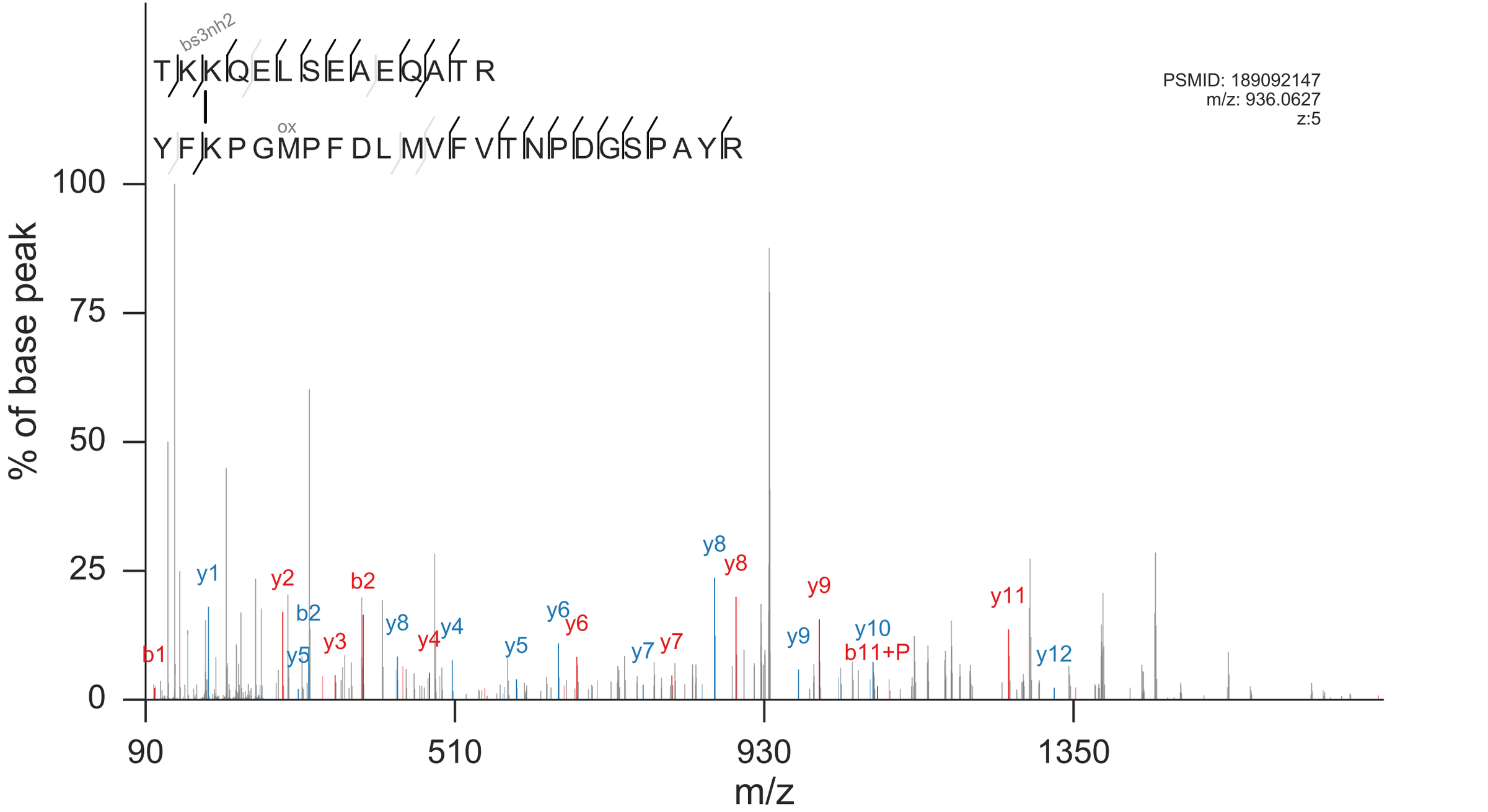

A D I G C T P G S G K D Y A G V F S D A G L T F T S S S G Q Q T A Q R
cm
bs3oh
L S I N T H P S Q K P L S I T V R
PSMID: 189092005
m/z: 1145.1697
z:5
% of base peak
100
75
50
25
0
150
581
1012
1443
1874
m/z
y7
y10
y8
y9
y11
y1
y4
y3
y5
b6
y2
y6
y7
y12
y13
b4
y3
b5
b6
y5
b11+P
b16+P

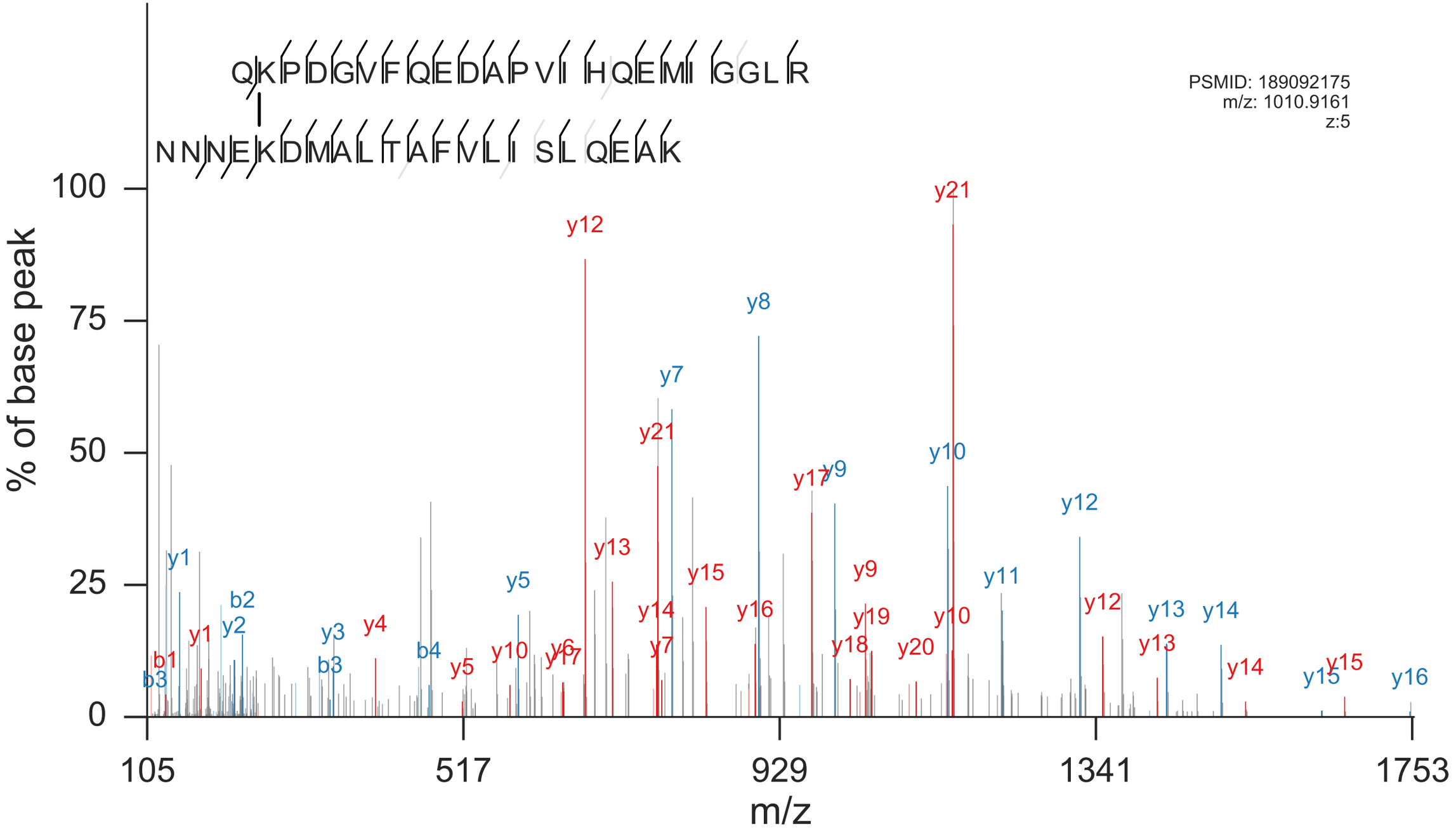

VELLHNPAFCSLATTKR
cm
FYHPEKEDGK
PSMID: 189092076
m/z: 1115.2273
z:3
% of base peak
100
75
50
25
0
120
668
1216
1764
m/z
y4
y11+P
b6
P+P+P
b2
b3
b5
y12+P
y7+P
y13+P
y1
y13+P
b6+P
y1
y2
y3
b4
b5
y8+P
y10+P
y3+P
y4+P
y5+P

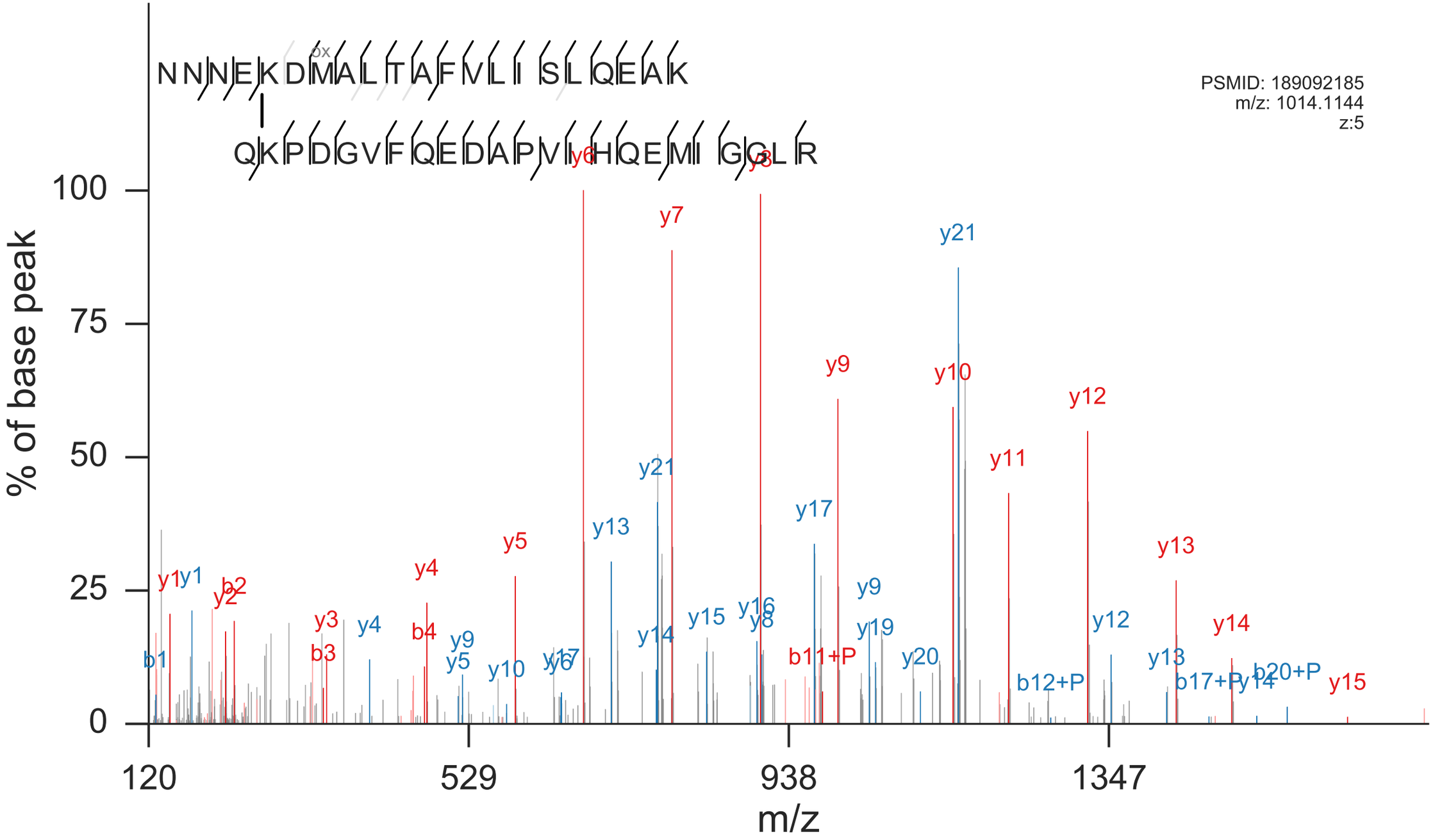

DI C E E Q V N S L P G S I T K
cm
A G D F L E A N Y M N L Q R
ox
PSMID: 189092087
m/z: 896.9227
z:4
% of base peak
100
75
50
25
0
105
405
705
1005
m/z
y1
y2
y4
y5
b7
y6+P
b3
b10
y3
b4
b9
b6
b9
b2
y1
b3
b5
b6
b8
y8+P
b2
y2
b3


VELLHNPAFCSLATTKR
cm
FYHPEKEDGKLNK
PSMID: 189092091
m/z: 925.4755
z:4
% of base peak
100
75
50
25
0
120
480
840
1200
m/z
b3
b2
b3
y2
b6
b5
y5
y1
y1
y3
b4
b2
b1
b5
y4
b9
b11
b5
y6
P+P+P
y11+P
y10+P
y12+P
y8+P
y13+P
b10+y5+P
y7+P
y8+P
y9+P
y11+P
y12+P


L E S E E T M V L E A H D A Q G D V P V T V T V H D F P G K K
Q G A L E L I K K
PSMID: 189092139
m/z: 1129.5857
z:4
% of base peak
100
75
50
25
0
120
585
1050
1515
m/z
b2
b3
y13+P
b17
b18
y7+P
y6+P
y9+P
y11+P
y20+P
y29+P
y4+P
b14
b15
y5+P
b4
b5
b6
y1


bs3nh2
T K K Q E L S E A E Q A T R
Y F K P G M ox P F D L M V F V T N P D G S P A Y R
PSMID: 189092147
m/z: 936.0627
z:5
% of base peak
100
75
50
25
0
90
510
930
1350
m/z
b1
y1
y2
b2
y5
b2
y3
y8
y4
y4
y5
y6
y6
y7
y7
y8
y8
y9
y9
y10
b11+P
y11
y12


QKPDGVFQEDAPVIHQEMIGGLR
NNNEKDMALTAFVLISLQEAK
PSMID: 189092175
m/z: 1010.9161
z:5
% of base peak
100
75
50
25
0
105
517
929
1341
1753
m/z
y21
y12
y8
y7
y10
y9
y17
y13
y15
y14
y16
y19
y18
y20
y11
y5
y1
b2
y2
y3
y4
b4
b1
b3
y6


NNNEKDMALTAFVLISLQEAK
ox
QKPDGVFQEDAPVIHQEMIGGLR
PSMID: 189092185
m/z: 1014.1144
z:5
% of base peak
100
75
50
25
0
120
529
938
1347
m/z
y7
y6
y3
y21
y9
y10
y12
y11
y13
y5
y4
y17
y1
y2
b2
b3
b4
y14
y15
y16
y8
y19
y20
b11+P
b12+P
b17+P
b20+P
b1