

# Supplementary Figure 1

**A**

Thrombin-cleaved GST-SNX1 used for MS

GSPMASGGGGCSAS**E**RLPPFPGL**E**P**E****E**GAAGG**S**E**P****E**AG**D****S****D****T****E****G****E****D**I**F**T**G**A**A**V**V**S**K**H**Q**  
 SPK**I**T**T**S**L**L**P**I**N**N**G**S**K****E****N**G**I**H**E****E****Q****D****Q****E****P****Q****D****L****F****A****D****A**T**V****E****L****S****L****D****S****T****Q****N****N****Q****K****V****L****A****K****T****L****I****S****L****P**  
 P**Q****E****A****T****N****S****S****K****P****Q****P****T****Y****E****E****L****E****E****E****Q****E****D****Q****F****D****L****T****V****G****I****T****D****P****E****K****I****G****D****G****M****N****A****Y****V****A****Y****K****V****T****T****Q****T****S****L****P****L****F****R**  
 S**K****Q****F****A****V****K****R****R****F****S****D****F****L****G****L****Y****E****K****L****S****E****K****H****S****Q****N****G****F****I****V****P****P****P****E****K****S****L****I****G****M****T****K****V****K****V****G****K****E****D****S****S****S****A****E****F****L****E****K**  
 R**R****A****A****L****E****R****Y****L****Q****R****I****V****N****H****P****T****M****L****Q****D****P****D****V****R****E****F****L****E****K****E****E****L****P****R****A****V****G****T****Q****T****L****S****G****A****G****L****L****K****M****F****N****K****A****T****D****A****V****S****K**  
 M**T****I****K****M****N****E****S****D****I****W****F****E****E****K****L****Q****E****V****E****C****E****E****Q****R****L****R****K****L****H****A****V****V****E****T****L****V****N****H****R****K****E****L****A****L****N****T****A****Q****F****A****K****S****L****A****M****L****G****S**  
**E****D****N****T****A****L****S****R****A****L****S****Q****L****A****E****V****E****E****K****I****E****Q****L****H****Q****E****Q****A****N****N****D****F****F****L****L****A****E****L****L****S****D****Y****I****R****L****L****A****I****V****R****A****A****F****D****Q****R****M****K****T****W**  
 Q**R****W****Q****D****A****Q****A****T****L****Q****K****R****E****A****E****A****R****L****L****W****A****N****K****P****D****K****L****Q****Q****A****K****D****E****I****L****E****W****E****S****R****V****T****Q****Y****E****R****D****F****E****R****I****S****T****V****V****R****K****E**  
 V**I****R****F****E****K****E****K****S****K****D****F****K****N****H****V****I****K****Y****L****E****T****L****L****Y****S****Q****Q****L****A****K****Y****W****E****A****F****L****P****E****A****K****A****I****S**

**B**

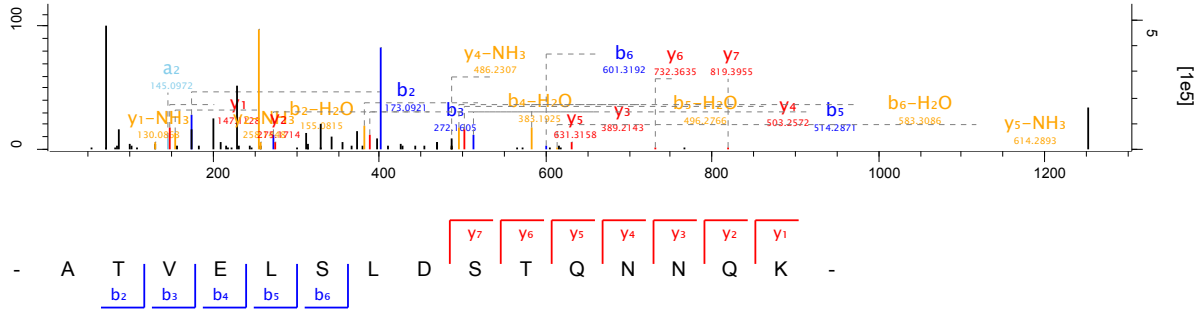
#	Peptide sequence	SNX1 D/E ↓	cleavage window (-8,+8)	Missed cleavages	Intensity SNX1 only	Intensity SNX1+casp-10
<b>Cleavage following Asp</b>		<b>10</b>		D/K/R		
1	SDTEGEDIFTGAAVSK	38	GSEPEAGD ↓ SDTEGEDI	2	0.00E+00	2.57E+09
2	LTVGITDPEK	144	EEQEDQFD ↓ LTVGITDP	1	0.00E+00	4.71E+08
3	TEGEDIFTGAAVSK	40	EPEAGDSD ↓ TEGEDIFT	1	0.00E+00	1.91E+08
4	ATVELSLDSTQNNQK	91	EPQDLFAD ↓ ATVELSLD	2	0.00E+00	1.90E+08
5	ATVELSLDSTQNNQK	91	EPQDLFAD ↓ ATVELSLD	1	0.00E+00	1.87E+08
6	TLISLPPQEATNSSKPQPTYEEEEEEQED	141	LEEEEQED ↓ QFDLTVGI	1	0.00E+00	1.70E+08
7	IFTGAAVSK	45	DSDTEGED ↓ IFTGAAVV	0	0.00E+00	1.62E+08
8	ENGIHEEQDQEPQDLFAD	91	EPQDLFAD ↓ ATVELSLD	2	0.00E+00	8.99E+07
9	LPPFPGLEPESEGAAGGSEPEAGD	38	GSEPEAGD ↓ SDTEGEDI	0	0.00E+00	5.58E+07
10	PEKIGDGMNAYVAYK	151	DLTVGITD ↓ PEKIGDGM	2	0.00E+00	3.58E+07
11	LTVGITDPEKIGDGMNAYVAYK	144	EEQEDQFD ↓ LTVGITDP	3	0.00E+00	3.53E+07
12	QFDLTVGITDPEK	141	LEEEEQED ↓ QFDLTVGI	2	0.00E+00	2.82E+07
13	VREFLEKEELPR	260	PTMLQDPD ↓ VREFLEKE	2	0.00E+00	2.75E+06
14	PDVREFLEKEELPR	258	NHPTMLQD ↓ PDVREFLE	3	0.00E+00	2.36E+06
15	KLQQAKDEILEWESR	444	LLWANKPD ↓ KLQQAKDE	3	0.00E+00	1.84E+06
<b>Cleavage following Glu</b>		<b>6</b>		D/E/K/R		
16	AGDSDTEGEDIFTGAAVSK	35	AAGGSEPE ↓ AGDSDTEG	5	0.00E+00	5.96E+08
17	SEGAAGGSEPEAGDSDTEGEDIFTGAAVSK	24	PFPGLEPE ↓ SEGAAGGS	8	0.00E+00	4.41E+08
18	GEDIFTGAAVSK	42	EAGDSDTE ↓ GEDIFTGA	2	0.00E+00	4.17E+07
19	LPPFPGLEPE	24	PFPGLEPE ↓ SEGAAGGS	1	0.00E+00	4.06E+07
20	TLISLPPQEATNSSKPQPTYEEEEEE	137	TYEEEEEE ↓ EQEDQFDL	6	0.00E+00	1.79E+07
21	LPPFPGLEPESE	26	PGLEPESE ↓ GAAGGSEP	2	0.00E+00	6.70E+06
22	FLEKEELPR	263	LQDPDVRE ↓ FLEKEELP	4	0.00E+00	2.56E+06



# C (continued)

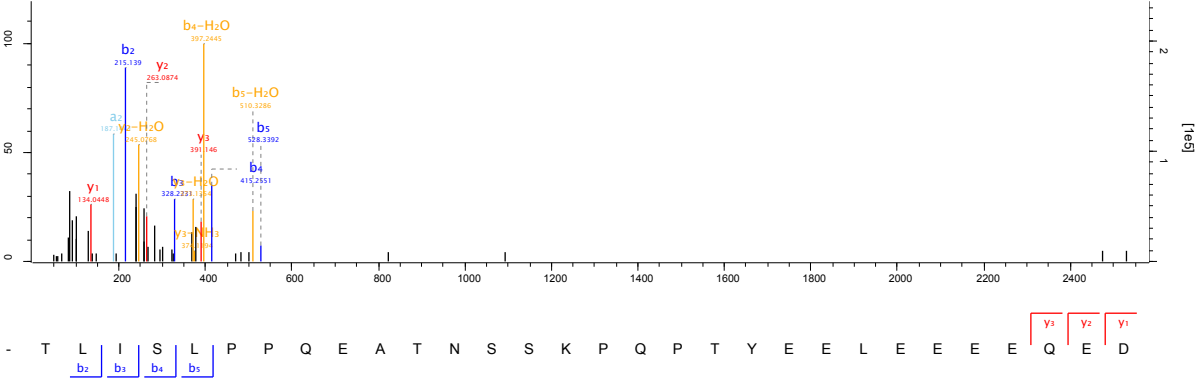
## #5

Raw file: 242Catherine\_Caspase10  
 Scan: 36545  
 Method: FTMS; HCD  
 Score: 98.34  
 m/z: 824.41  
 Gene names: SNX1



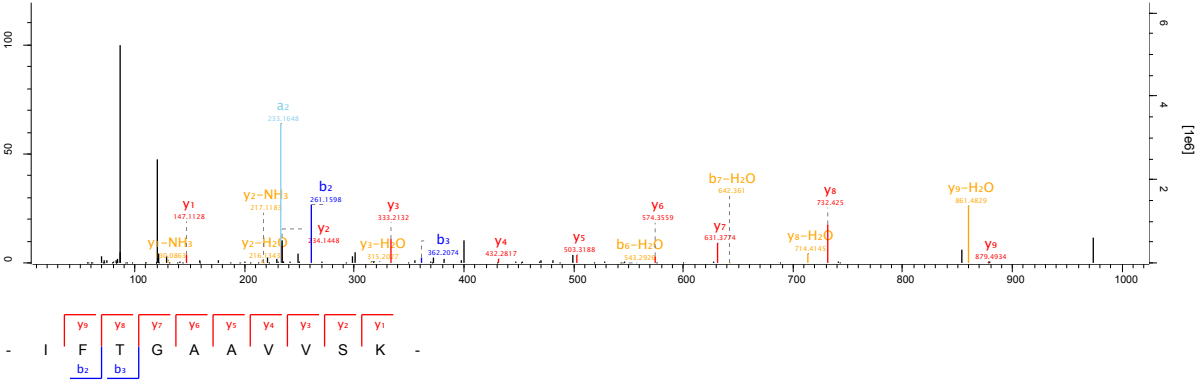
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 Score: 17.86  
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 Gene names: SNX1



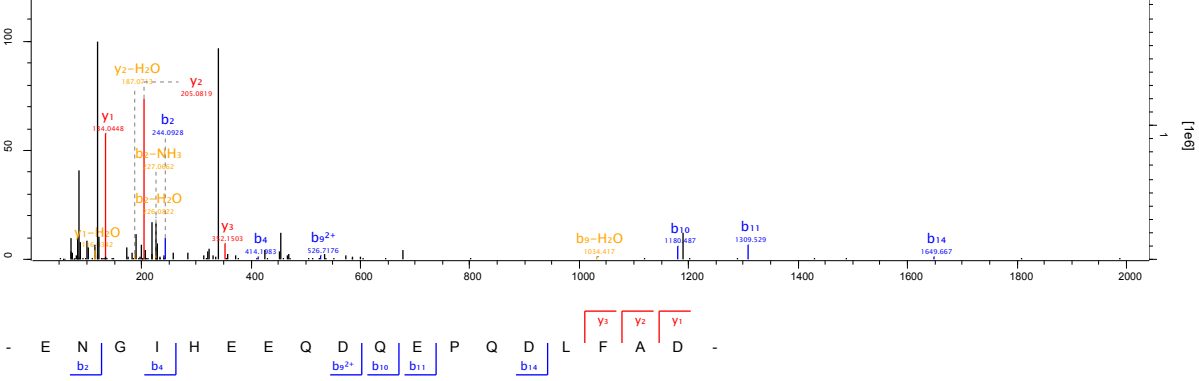
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 Gene names: SNX1



## #8

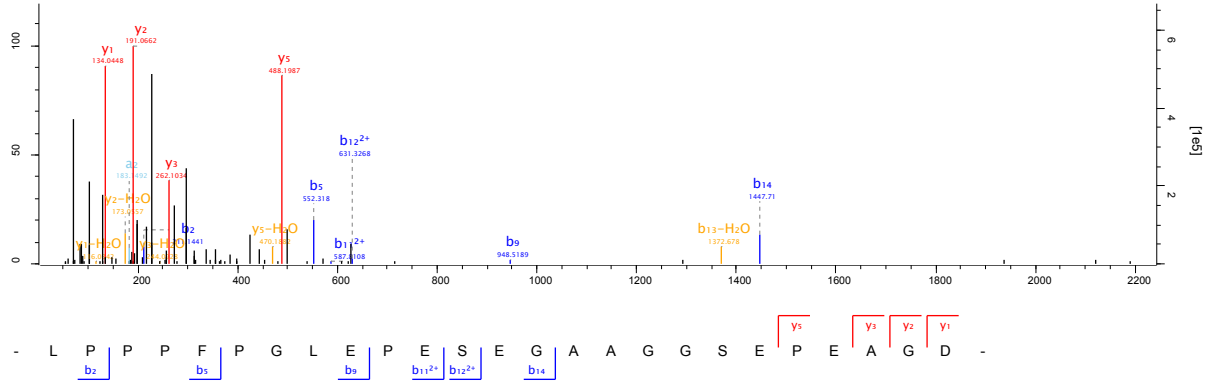
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 Gene names: SNX1



# C (continued)

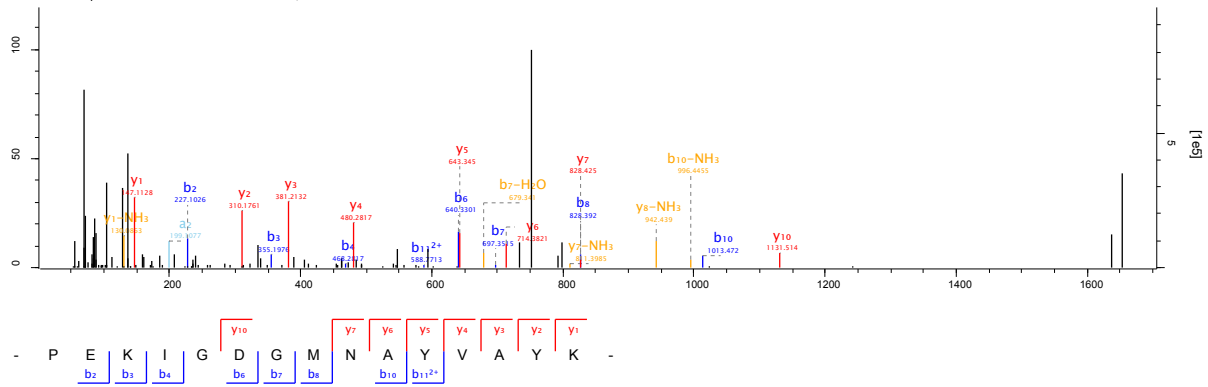
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 Gene names: SNX1



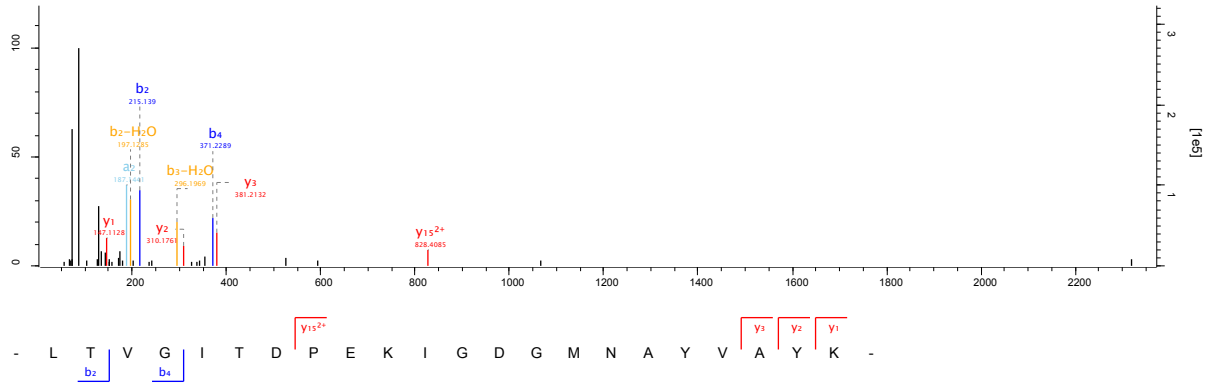
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 Score: 85.01  
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 Gene names: SNX1



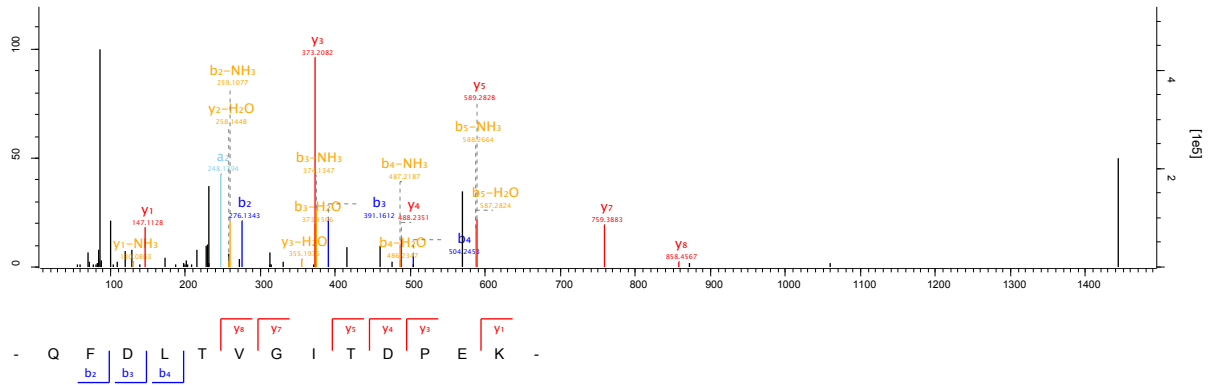
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 Scan: 68788  
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 Score: 18.32  
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 Gene names: SNX1



## #12

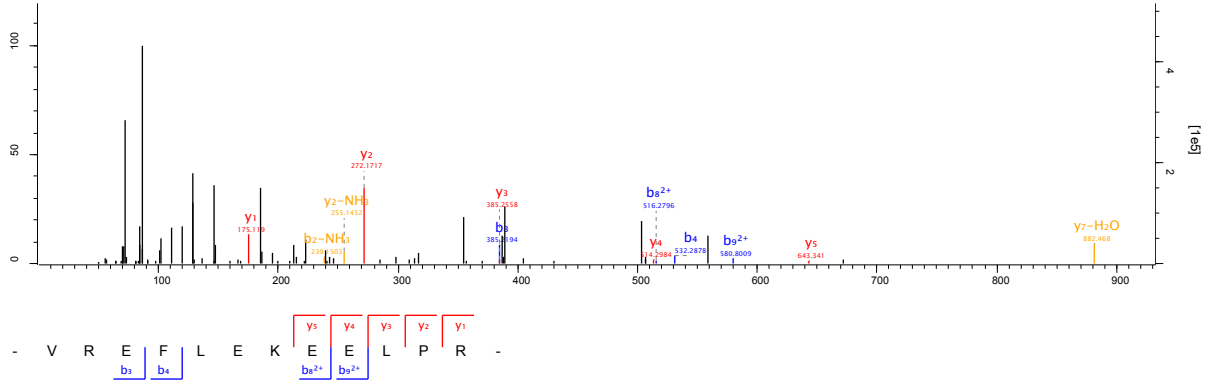
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 Gene names: SNX1



# C (continued)

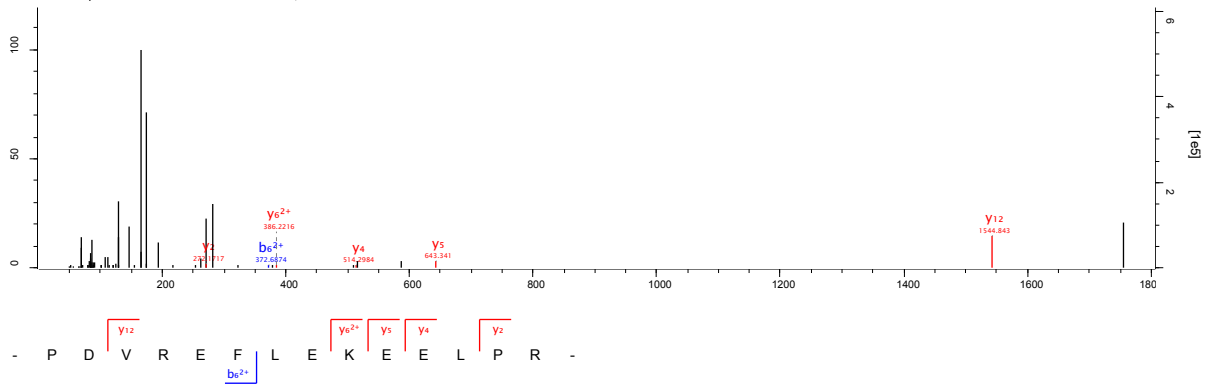
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Gene names: SNX1



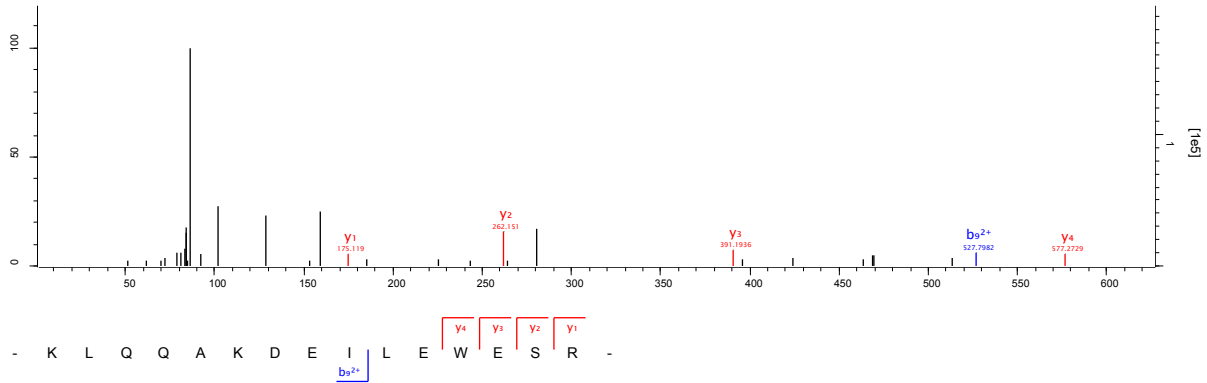
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Score: 18.82  
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Gene names: SNX1



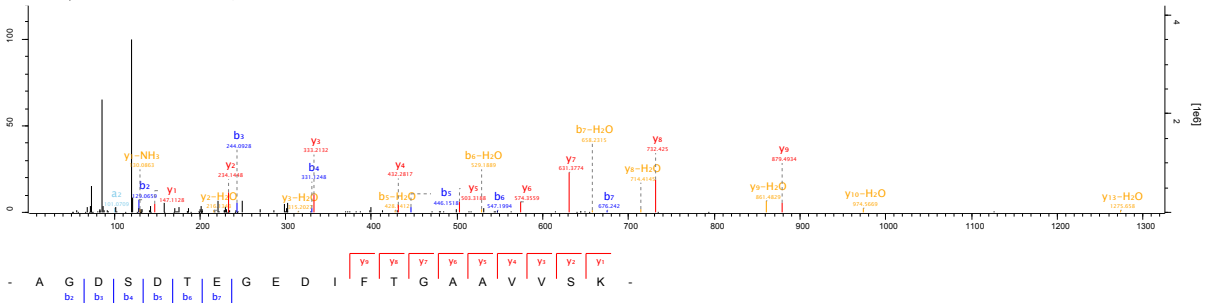
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Gene names: SNX1



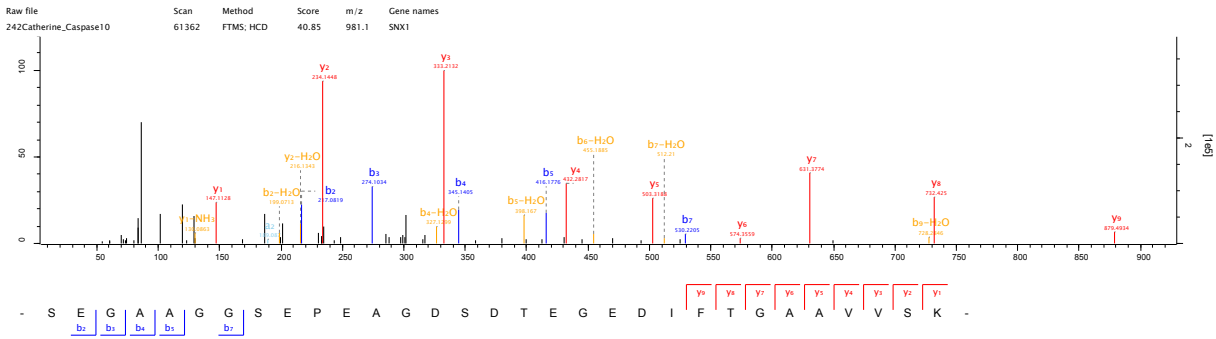
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Gene names: SNX1

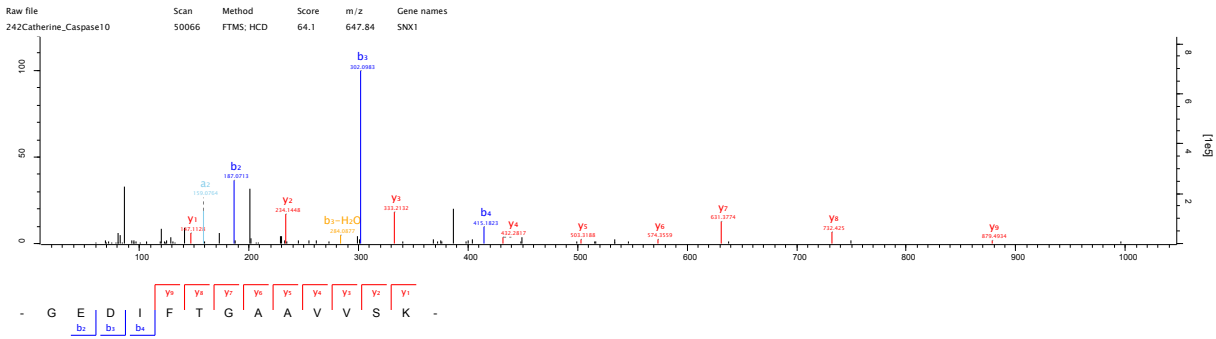


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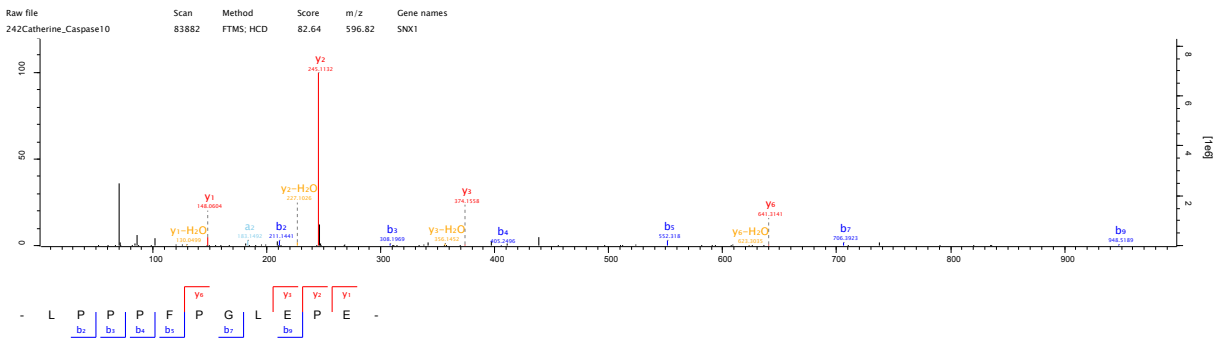
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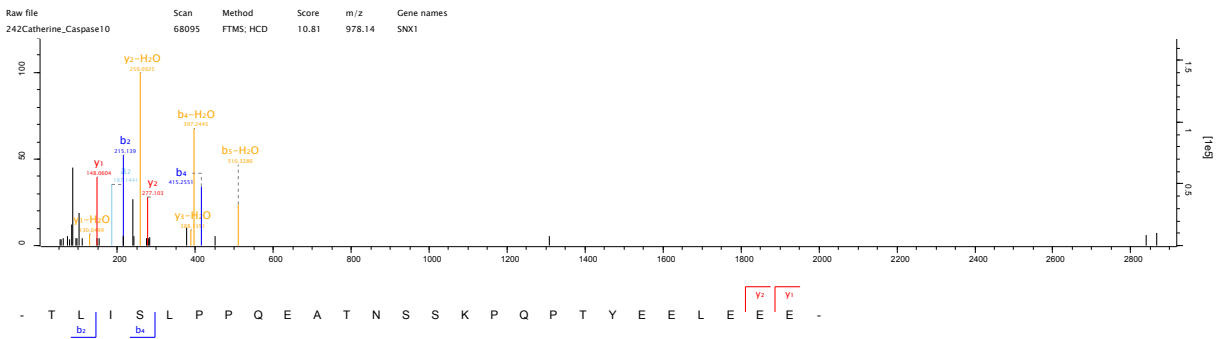
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## #19

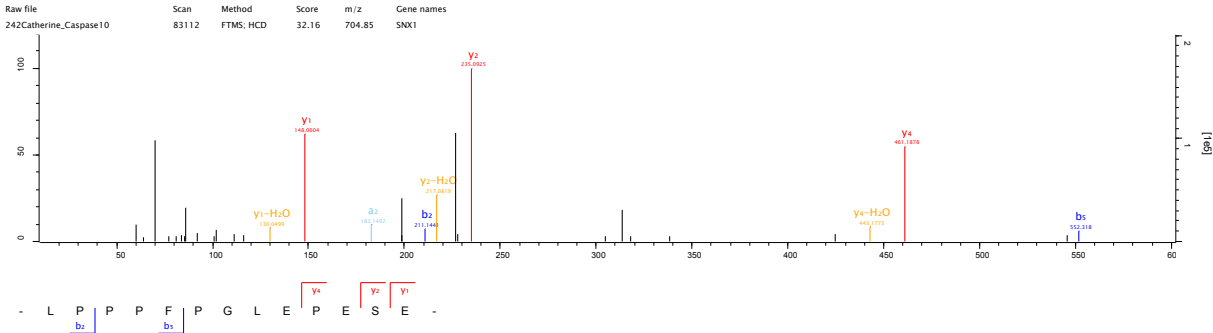


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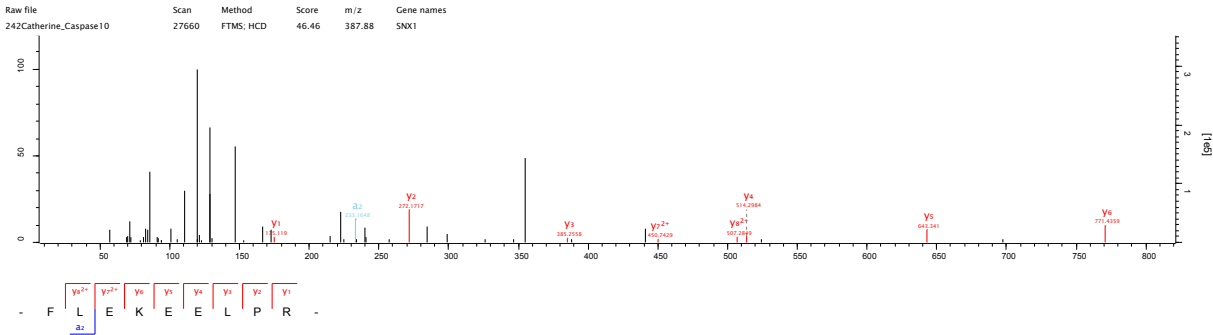


# C (continued)

## #21

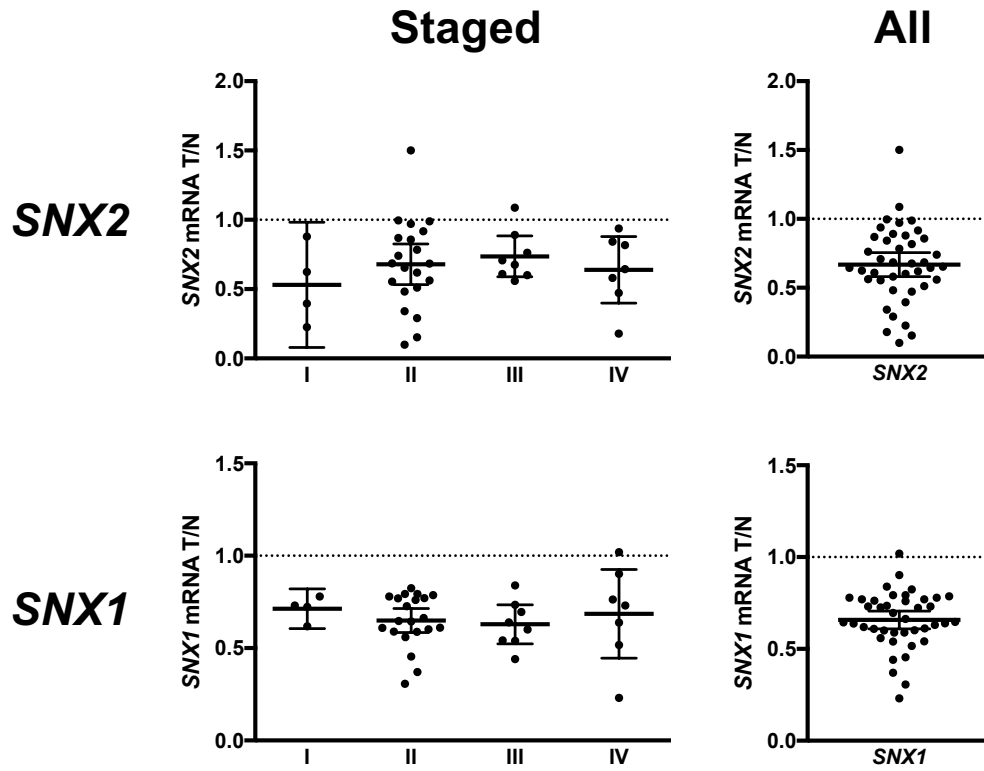


## #22



**Supplementary Figure 1** Spectrometric analysis of SNX1 cleavage sites. **(a)** Primary structure of the human SNX1 protein used for the identification of cleavage sites. Peptide coverage (387/525, 73.4%) is shown in gray; aspartate and glutamate residues are in bold typeface; cleaved Asp and cleaved Glu sites are underlined and green and red typeface, respectively. The previously reported cleavage site is boxed and corresponds to Asp<sub>91</sub>. The N-terminal GSP residues are from the fusion protein used to purify SNX1. **(b)** List of peptides identified that reveal cleavage sites. Cleaved aspartate/glutamate residues are identified (Uniprot: Q13596) along with [-8,+8] sequence window with cleavage site, missed Asp/Glu/Lys/Arg cleavages and peak intensities in the control and caspase-10-cleaved samples. Cleavage sites at Asp<sub>38,91,141</sub> and at Glu<sub>24</sub> were identified by both N- and C-terminal peptides (brackets). **(c)** Peptide ion trap CID fragmentation for the peptides identified in **b**. Spectra are shown as matched to peptide sequences and annotated by MaxQuant 1.5.2.8.

## Supplementary Figure 2



**Supplementary Figure 2** *SNX2* gene expression is decreased in CRC tumors. *SNX2* and *SNX1* mRNA level tumor/normal ratios (staged, *left panel*; all stages, *right panel*) in CRC tumors from patients. Accompanies Figure 7.