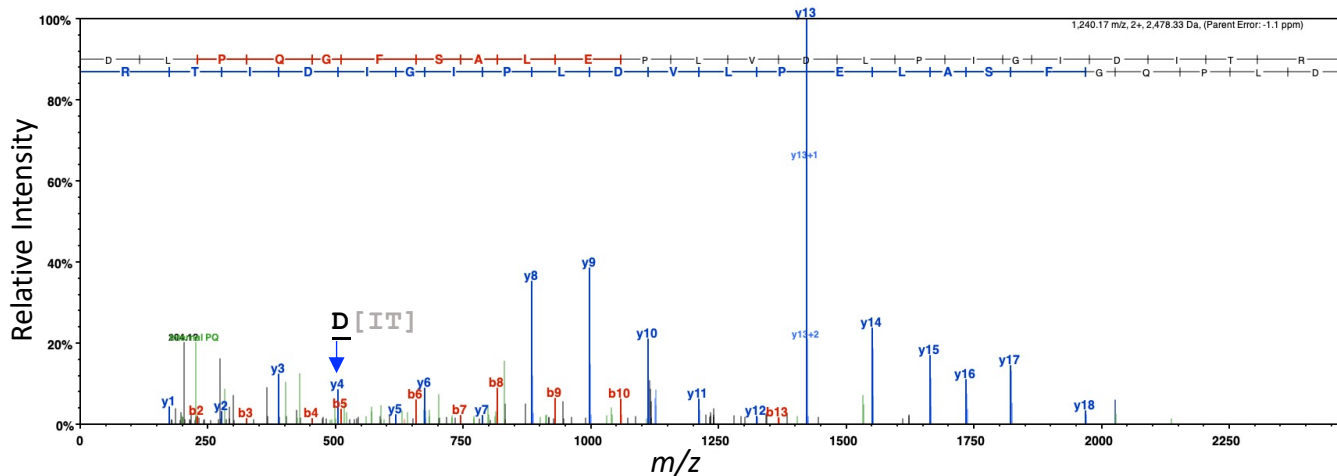


A

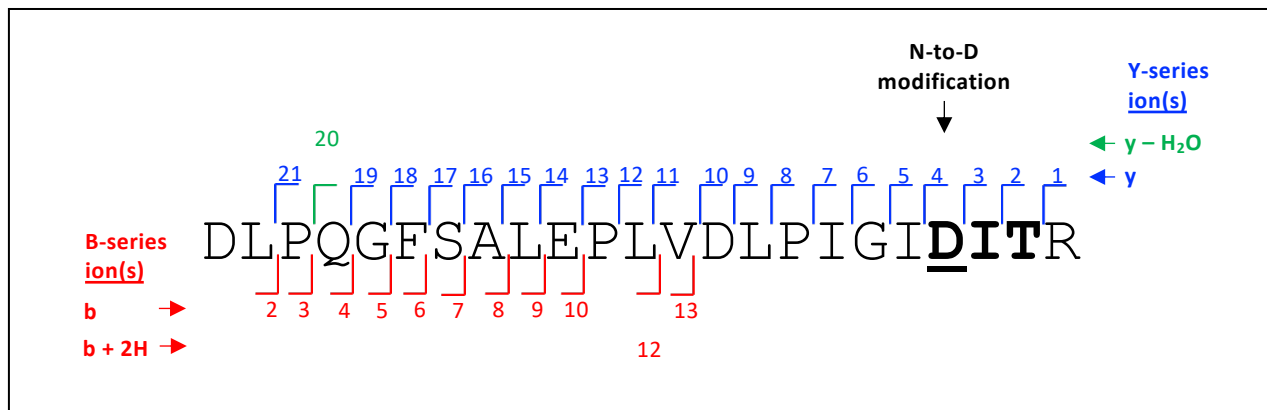
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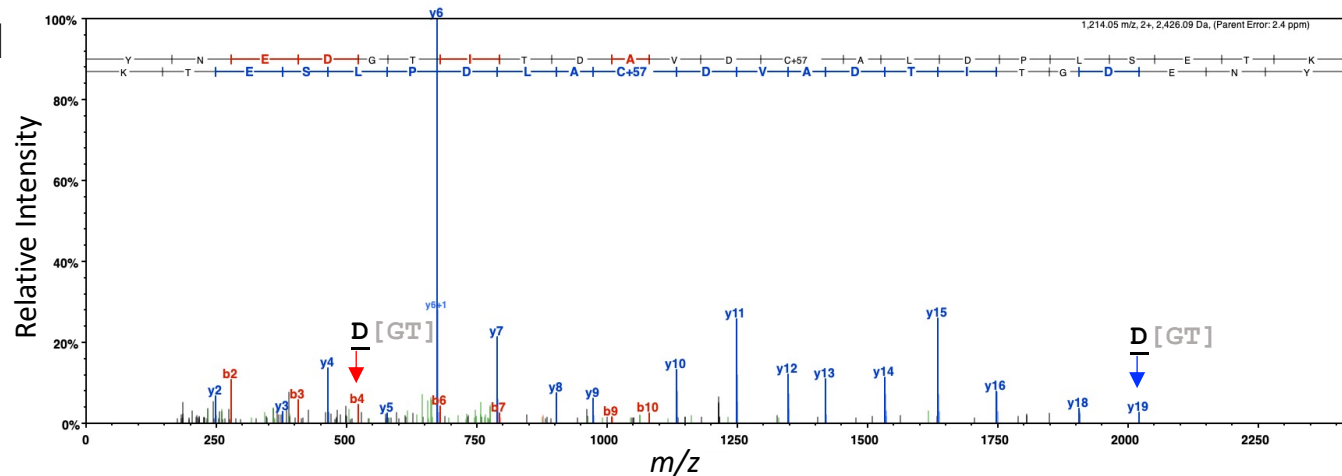


2

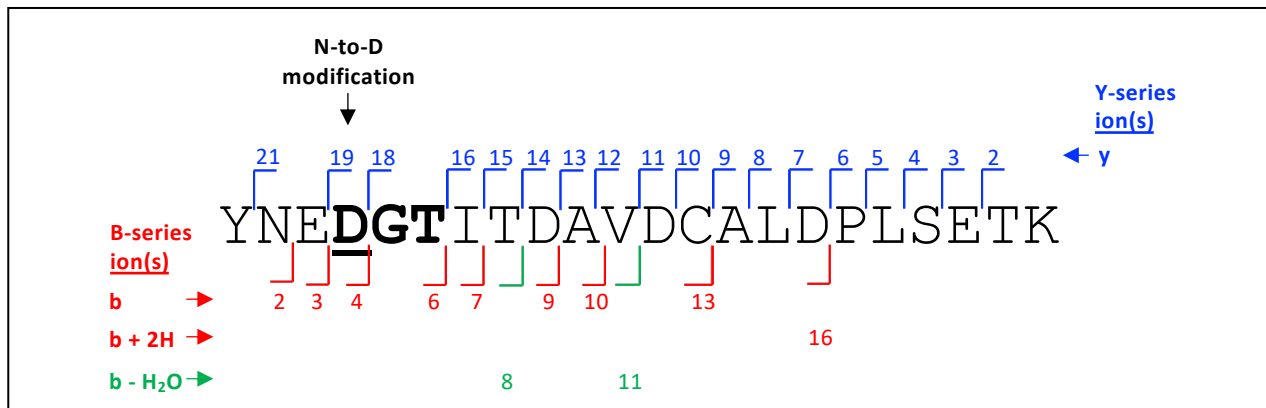
B	B Ions	B+2H	B-NH3	B-H2O	AA	Y Ions	Y+2H	Y-NH3	Y-H2O	Y
1	116.0			98.0	D	2,479.3	1,240.2	2,462.3	2,461.3	23
2	229.1			211.1	L	2,364.3	1,182.7	2,347.3	2,346.3	22
3	326.2			308.2	P	2,251.2	1,126.1	2,234.2	2,233.2	21
4	454.2			437.2	Q	2,154.2	1,077.6	2,137.2	2,136.2	20
5	511.3			494.2	G	2,026.1	1,013.6	2,009.1	2,008.1	19
6	658.3	329.7		641.3	F	1,969.1	985.1	1,952.1	1,951.1	18
7	745.4	373.2		728.3	S	1,822.0	911.5	1,805.0	1,804.0	17
8	816.4	408.7		799.4	A	1,735.0	868.0	1,718.0	1,717.0	16
9	929.5	465.2		912.4	L	1,664.0	832.5	1,646.9	1,646.0	15
10	1,058.5	529.8		1,041.5	E	1,550.9	775.9	1,533.9	1,532.9	14
11	1,155.6	578.3		1,138.5	P	1,421.8	711.4	1,404.8	1,403.8	13
12	1,268.7	634.8		1,251.6	L	1,324.8	662.9	1,307.8	1,306.8	12
13	1,367.7	684.4		1,350.7	V	1,211.7	606.4	1,194.7	1,193.7	11
14	1,482.7	741.9		1,465.7	D	1,112.6	556.8	1,095.6	1,094.6	10
15	1,595.8	798.4		1,578.8	L	997.6	499.3	980.6	979.6	9
16	1,692.9	846.9		1,675.9	P	884.5	442.8	867.5	866.5	8
17	1,806.0	903.5		1,788.9	I	787.5	394.2	770.4	769.5	7
18	1,863.0	932.0		1,846.0	G	674.4	337.7	657.4	656.4	6
19	1,976.1	988.5		1,959.0	I	617.4		600.3	599.4	5
20	2,091.1	1,046.1		2,074.1	D	504.3		487.3	486.3	4
21	2,204.2	1,102.6		2,187.2	I	389.3		372.2	371.2	3
22	2,305.2	1,153.1		2,288.2	T	276.2		259.1	258.2	2
23	2,479.3	1,240.2		2,462.3	R	175.1		158.1		1

3



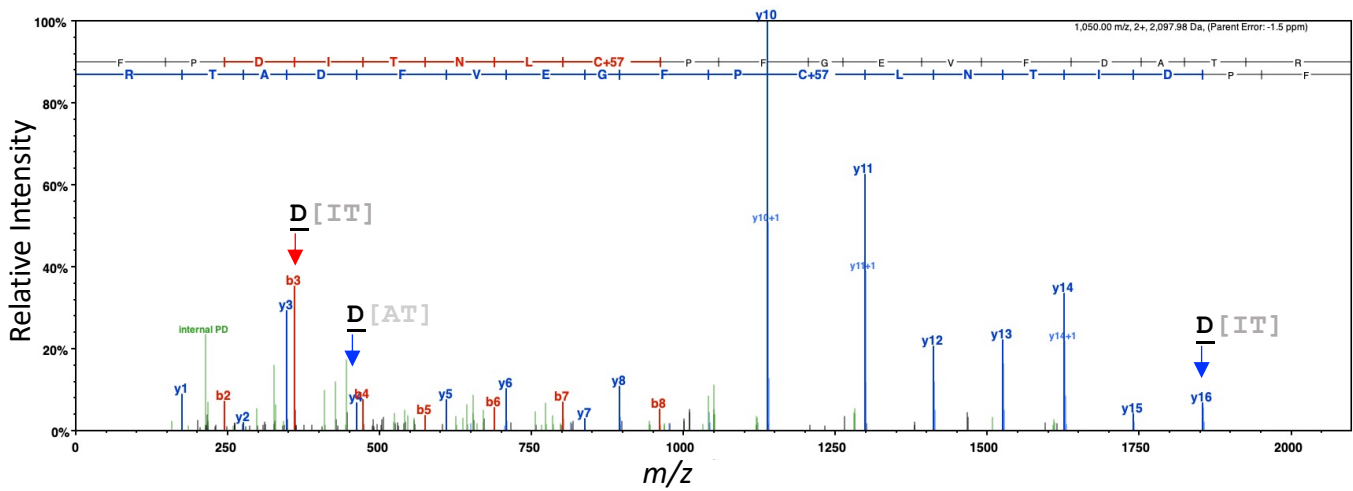
B**1****2**

B	B ions	B+2H	B-NH3	B-H2O	AA	Y ions	Y+2H	Y-NH3	Y-H2O	Y
1	164.1			146.1	Y	2,427.1	1,214.0	2,410.1	2,409.1	22
2	278.1		261.1	260.1	N	2,264.0	1,132.5	2,247.0	2,246.0	21
3	407.2		390.1	389.1	E	2,150.0	1,075.5	2,133.0	2,132.0	20
4	522.2		505.2	504.2	D	2,020.9	1,011.0	2,003.9	2,002.9	19
5	579.2		562.2	561.2	G	1,905.9	953.5	1,888.9	1,887.9	18
6	680.3	340.6	663.2	662.2	T	1,848.9	924.9	1,831.9	1,830.9	17
7	793.3	397.2	776.3	775.3	I	1,747.8	874.4	1,730.8	1,729.8	16
8	894.4	447.7	877.4	876.4	T	1,634.8	817.9	1,617.7	1,616.7	15
9	1,009.4	505.2	992.4	991.4	D	1,533.7	767.4	1,516.7	1,515.7	14
10	1,080.4	540.7	1,063.4	1,062.4	A	1,418.7	709.8	1,401.7	1,400.7	13
11	1,179.5	590.3	1,162.5	1,161.5	V	1,347.6	674.3	1,330.6	1,329.6	12
12	1,294.5	647.8	1,277.5	1,276.5	D	1,248.6	624.8	1,231.6	1,230.6	11
13	1,454.6	727.8	1,437.5	1,436.6	C+57	1,133.6	567.3	1,116.5	1,115.5	10
14	1,525.6	763.3	1,508.6	1,507.6	A	973.5	487.3	956.5	955.5	9
15	1,638.7	819.9	1,621.7	1,620.7	L	902.5	451.7	885.5	884.5	8
16	1,753.7	877.4	1,736.7	1,735.7	D	789.4	395.2	772.4	771.4	7
17	1,850.8	925.9	1,833.7	1,832.8	P	674.4	337.7	657.3	656.4	6
18	1,963.9	982.4	1,946.8	1,945.8	L	573.3		560.3	559.3	5
19	2,050.9	1,025.9	2,033.9	2,032.9	S	464.2		447.2	446.2	4
20	2,179.9	1,090.5	2,162.9	2,161.9	E	377.2		360.2	359.2	3
21	2,281.0	1,141.0	2,264.0	2,263.0	T	248.2		231.1	230.1	2
22	2,427.1	1,214.0	2,410.1	2,409.1	K	147.1		130.1	129.1	1

3

C

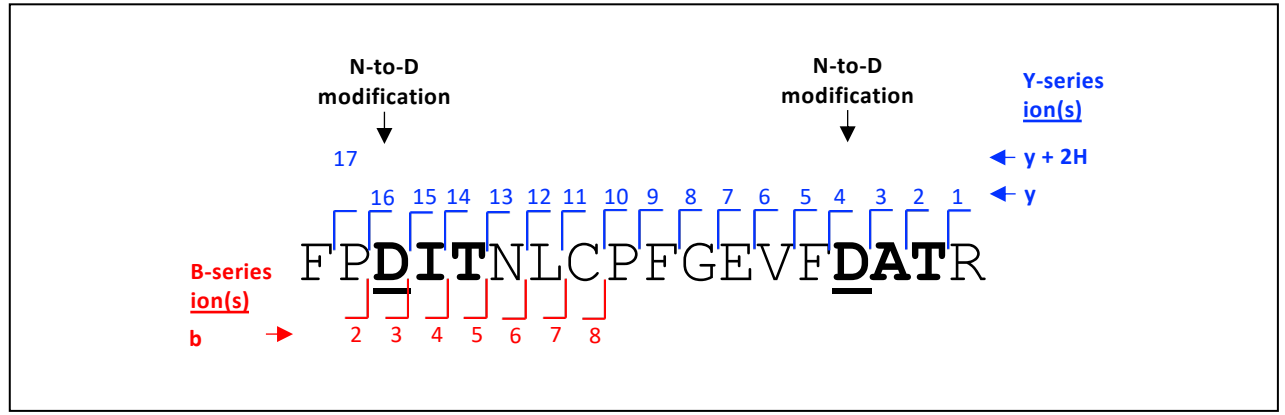
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2

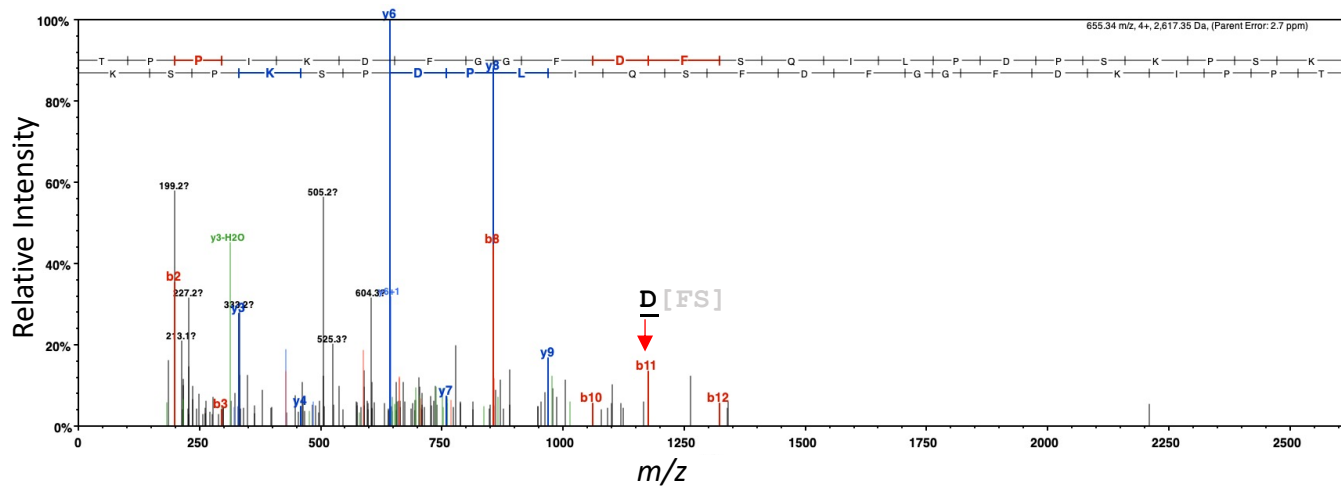
B	B ions	B+2H	B-NH3	B-H2O	AA	Y ions	Y+2H	Y-NH3	Y-H2O	Y
1	148.1				F	2,099.0	1,050.0	2,082.0	2,081.0	18
2	245.1				P	1,951.9	976.5	1,934.9	1,933.9	17
3	360.2			342.1	D	1,854.9	927.9	1,837.8	1,836.9	16
4	473.2			455.2	I	1,739.8	870.4	1,722.8	1,721.8	15
5	574.3			556.3	T	1,626.8	813.9	1,609.7	1,608.7	14
6	688.3	344.7	671.3	670.3	N	1,525.7	763.4	1,508.7	1,507.7	13
7	801.4	401.2	784.4	783.4	L	1,411.7	706.3	1,394.6	1,393.7	12
8	961.4	481.2	944.4	943.4	C+57	1,298.6	649.8	1,281.6	1,280.6	11
9	1,058.5	529.8	1,041.5	1,040.5	P	1,138.6	569.8	1,121.5	1,120.5	10
10	1,205.6	603.3	1,188.5	1,187.6	F	1,041.5	521.3	1,024.5	1,023.5	9
11	1,262.6	631.8	1,245.6	1,244.6	G	894.4	447.7	877.4	876.4	8
12	1,391.6	696.3	1,374.6	1,373.6	E	837.4	419.2	820.4	819.4	7
13	1,490.7	745.9	1,473.7	1,472.7	V	708.4	354.7	691.3	690.4	6
14	1,637.8	819.4	1,620.7	1,619.8	F	609.3		592.3	591.3	5
15	1,752.8	876.9	1,735.8	1,734.8	D	462.2		445.2	444.2	4
16	1,823.8	912.4	1,806.8	1,805.8	A	347.2		330.2	329.2	3
17	1,924.9	962.9	1,907.9	1,906.9	T	276.2		259.1	258.2	2
18	2,099.0	1,050.0	2,082.0	2,081.0	R	175.1		158.1		1

3



D

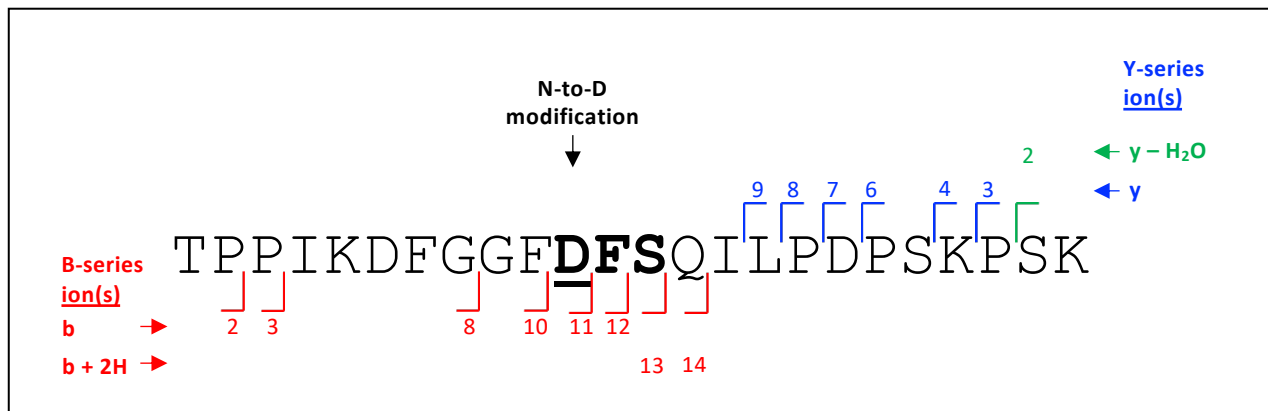
1



2

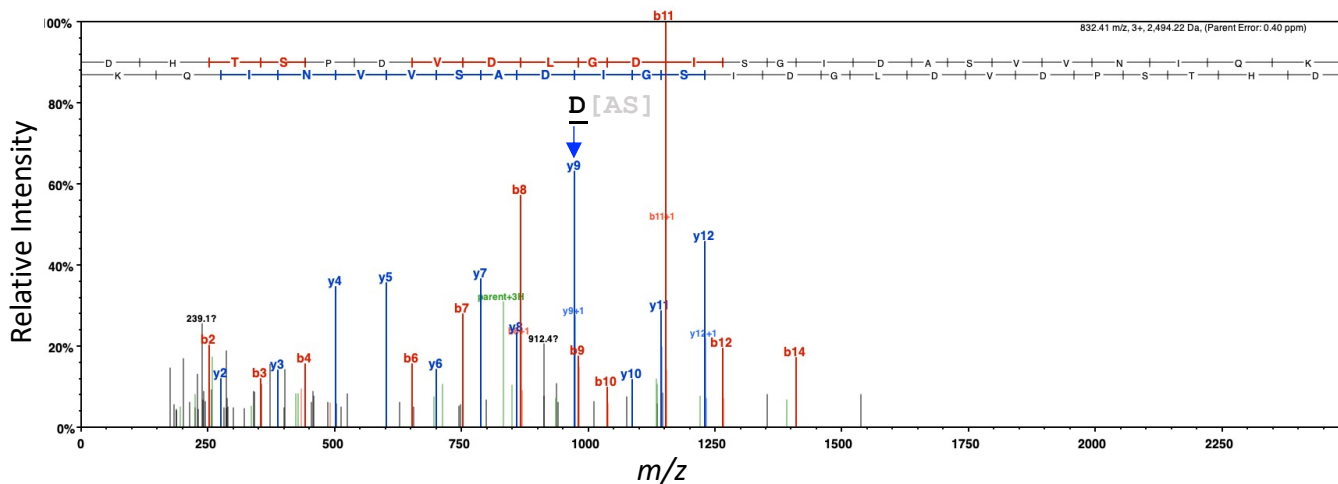
B	B Ions	B+2H	B-NH3	B-H2O	AA	Y Ions	Y+2H	Y-NH3	Y-H2O	Y
1	102.1	51.5		84.0	T	2,618.4	1,309.7	2,601.3	2,600.3	24
2	199.1	100.1		181.1	P	2,517.3	1,259.2	2,500.3	2,499.3	23
3	296.2	148.6		278.2	P	2,420.2	1,210.6	2,403.2	2,402.2	22
4	409.2	205.1		391.2	I	2,323.2	1,162.1	2,306.2	2,305.2	21
5	537.3	269.2	520.3	519.3	K	2,210.1	1,105.6	2,193.1	2,192.1	20
6	652.4	326.7	635.3	634.4	D	2,082.0	1,041.5	2,065.0	2,064.0	19
7	799.4	400.2	782.4	781.4	F	1,967.0	984.0	1,950.0	1,949.0	18
8	856.5	428.7	839.4	838.4	G	1,819.9	910.5	1,802.9	1,801.9	17
9	913.5	457.2	896.5	895.5	G	1,762.9	882.0	1,745.9	1,744.9	16
10	1,060.5	530.8	1,043.5	1,042.5	F	1,705.9	853.4	1,688.9	1,687.9	15
11	1,175.6	588.3	1,158.5	1,157.6	D	1,558.8	779.9	1,541.8	1,540.8	14
12	1,322.6	661.8	1,305.6	1,304.6	F	1,443.8	722.4	1,426.8	1,425.8	13
13	1,409.7	705.3	1,392.6	1,391.7	S	1,296.7	648.9	1,279.7	1,278.7	12
14	1,537.7	769.4	1,520.7	1,519.7	Q	1,209.7	605.3	1,192.7	1,191.7	11
15	1,650.8	825.9	1,633.8	1,632.8	I	1,081.6	541.3	1,064.6	1,063.6	10
16	1,763.9	882.5	1,746.9	1,745.9	L	968.5	484.8	951.5	950.5	9
17	1,861.0	931.0	1,843.9	1,842.9	P	855.5	428.2	838.4	837.4	8
18	1,976.0	988.5	1,959.0	1,958.0	D	758.4	379.7	741.4	740.4	7
19	2,073.0	1,037.0	2,056.0	2,055.0	P	643.4	322.2	626.4	625.4	6
20	2,160.1	1,080.5	2,143.0	2,142.1	S	546.3	273.7	529.3	528.3	5
21	2,288.2	1,144.6	2,271.1	2,270.1	K	459.3	230.1	442.3	441.3	4
22	2,385.2	1,193.1	2,368.2	2,367.2	P	331.2	166.1	314.2	313.2	3
23	2,472.2	1,236.6	2,455.2	2,454.2	S	234.1	117.6	217.1	216.1	2
24	2,618.4	1,309.7	2,601.3	2,600.3	K	147.1	74.1	130.1		1

3



E

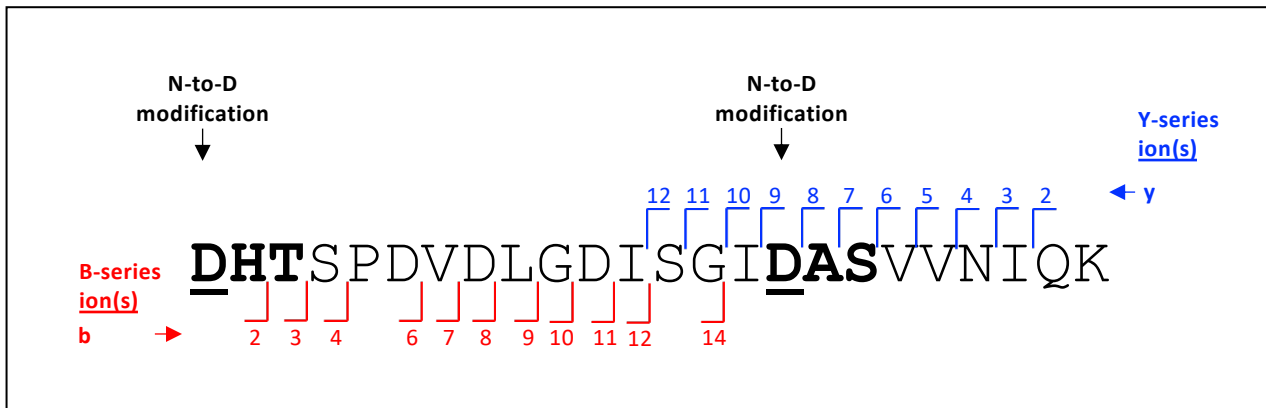
1



2

B	B Ions	B+2H	B-NH3	B-H2O	AA	Y Ions	Y+2H	Y-NH3	Y-H2O	Y
1	116.0	58.5		98.0	D	2,495.2	1,248.1	2,478.2	2,477.2	24
2	253.1	127.1		235.1	H	2,380.2	1,190.6	2,363.2	2,362.2	23
3	354.1	177.6		336.1	T	2,243.1	1,122.1	2,226.1	2,225.1	22
4	441.2	221.1		423.2	S	2,142.1	1,071.6	2,125.1	2,124.1	21
5	538.2	269.6		520.2	P	2,055.1	1,028.0	2,038.0	2,037.1	20
6	653.3	327.1		635.2	D	1,958.0	979.5	1,941.0	1,940.0	19
7	752.3	376.7		734.3	V	1,843.0	922.0	1,826.0	1,825.0	18
8	867.3	434.2		849.3	D	1,743.9	872.5	1,726.9	1,725.9	17
9	980.4	490.7		962.4	L	1,628.9	814.9	1,611.9	1,610.9	16
10	1,037.5	519.2		1,019.4	G	1,515.8	758.4	1,498.8	1,497.8	15
11	1,152.5	576.7		1,134.5	D	1,458.8	729.9	1,441.8	1,440.8	14
12	1,265.6	633.3		1,247.6	I	1,343.8	672.4	1,326.7	1,325.7	13
13	1,352.6	676.8		1,334.6	S	1,230.7	615.8	1,213.6	1,212.7	12
14	1,409.6	705.3		1,391.6	G	1,143.6	572.3	1,126.6	1,125.6	11
15	1,522.7	761.9		1,504.7	I	1,066.6	543.8	1,069.6	1,068.6	10
16	1,637.7	819.4		1,619.7	D	973.5	487.3	956.5	955.5	9
17	1,708.8	854.9		1,690.8	A	858.5	429.8	841.5	840.5	8
18	1,795.8	898.4		1,777.8	S	787.5	394.2	770.4	769.5	7
19	1,894.9	947.9		1,876.9	V	700.4	350.7	683.4		6
20	1,993.9	997.5		1,975.9	V	601.4	301.2	584.3		5
21	2,108.0	1,054.5	2,091.0	2,090.0	N	502.3	251.7	485.3		4
22	2,221.1	1,111.0	2,204.0	2,203.1	I	388.3	194.6	371.2		3
23	2,349.1	1,175.1	2,332.1	2,331.1	Q	275.2	138.1	258.1		2
24	2,495.2	1,248.1	2,478.2	2,477.2	K	147.1	74.1	130.1		1

3



F

>tr|A0A7L9W8W9|A0A7L9W8W9_SARS2 Surface glycoprotein OS=Severe acute respiratory syndrome coronavirus 2

OX=2697049 GN=S PE=4 SV=1

QCV ¹ <u>NLT</u> TRTQ	LPPAYTNSFT	RGVYYPDKVF	RSSVLHSTQD	LFLPFFN ² <u>NVT</u>	WFHAIHVSGT	³ <u>NGT</u> KRFNDNPV	LPFNDGVYFA	STEKSNI IRG	90
WIFGTTLDSK	TQSL ⁴ LIVN <u>NA</u>	TNVVIKVECF	QFCNDPFLGV	YYHKN ⁵ <u>NKS</u> WM	ESEFRVYSSA	⁶ <u>NCT</u> FEYVSQ	PFLMDLEGKQ	GNFKNLREFV	180
FKNIDGYFKI	YSKHTPINLV	RDL ⁷ PQGFSAL	EPLVDLPIGI	⁸ <u>NIT</u> RFQTL ⁹ LLA	LHRSYLTPGD	SSSGWTAGAA	AYYVGYLQPR	TFL ⁸ LLKYNE <u>NG</u>	270
¹⁰ <u>TIT</u> DAVDCAL	DPLSETKCTL	KSFTVEKGIY	QTSNFRVQPT	ESIVRFP ¹¹ <u>NIT</u>	NLCPFGEVFN	¹² <u>AT</u> RFASVYAW	NRKRISNCVA	DYSILYNSAS	360
FSTFKCYGVS	PTKLN ¹³ DL ¹⁴ CFT	NVYADSFVIR	GDEV ¹⁵ RQIAPG	QTGKIADYNY	KLPDDFTGCV	IAWNSNNLDS	KVGGNYNYLY	RLFRKSNLKP	450
FERDISTEYI	QAGSTPCNGV	EGFNCYFPLQ	SYGFQPTNGV	GYQP ¹⁶ YRVVVL	SFELLHAPAT	VCGPKKSTNL	VKNKCVNFNF	NGLTGTGVLT	540
ESNKKFLPFQ	QFGRDIADTT	DAVRDPQ ¹⁷ TLE	ILDITPCSEFG	GVS ¹⁸ VITPGTN	¹⁹ <u>TS</u> NQVAVLYQ	GV ²⁰ <u>NCT</u> EV ²¹ PVA	IHADQLTPTW	RVYSTGNSVF	630
QTRAGCLIGA	EHV ²² <u>NNS</u> YECD	IPIGAGICAS	YQTQ ²³ TNSPRR	ARSVASQ ²⁴ SII	AYTMSLGAEN	SVAYS ²⁵ <u>NNS</u> IA	IPT ²⁶ <u>NFT</u> ISVT	TEILPVSMTK	720
TSVDCTMYIC	GDSTEC ²⁷ SNLL	LQYGSFCTQL	NRAL ²⁸ TGIAVE	QDKNTQEVFA	QVKQIYKTPP	IKDFGGF ²⁹ <u>NFS</u>	QILPDPSPKS	KRSFIEDLLF	810
NKVTLADAGF	IKQYGDCLGD	IAARDLICAQ	KFNGLTVLPP	LLTDEMIAQY	TSALLAGTIT	SGWTFGAGAA	LQIPFAMQMA	YRFNGIGVTQ	900
NVLYENQKLI	ANQFN ³⁰ SAIGK	IQDSL ³¹ SSTAS	ALGKLQDVVN	QNAQALNTLV	KQLSSNFGAI	SSVLNDILSR	LDKVEAEVQI	DRLITGRLQS	990
LQTYVTQQLI	RAAEIRASAN	LAATKMSECV	LGQSKRVDFC	GKGYHLMSEF	QSAPHGVVFL	HVTYVPAQEK	³² <u>NFT</u> TAPAICH	DGKAHPREG	1080
VFVS ³³ <u>NGT</u> HWF	VTQRNFYEPQ	IITDNTFVS	GNC ³⁴ DVVIGIV	³⁵ <u>NNT</u> VYDPLQ ³⁶	ELDSFKEELD	KYFK ³⁷ <u>NHT</u> SPD	VDLGDISG ³⁸ <u>IN</u>	³⁹ <u>AS</u> VVNIQKEI	1170
DRLNEVAKNL	⁴⁰ <u>NES</u> LIDLQEL	GKYEQYIKWP	WYIWLGFIAG	LIAIVMVTIM	LCCMTSCCSC	LKGCCSCGSC	CKFDEDDSEP	VLKGVKLHYT	1260

>tr|A0A7L9W8W9|A0A7L9W8W9_NDM_SARS2 Surface glycoprotein OS=Severe acute respiratory syndrome coronavirus 2

OX=2697049 GN=S PE=4 SV=1_Mature protein with N-to-D modification in potential N-glycosylation sites (22)

Confirmed de-N-glycosylated peptides

QCV ¹ <u>DLT</u> TRTQ	LPPAYTNSFT	RGVYYPDKVF	RSSVLHSTQD	LFLPFFD ² <u>DVT</u>	WFHAIHVSGT	³ <u>DGT</u> KRFNDNPV	LPFNDGVYFA	STEKSNI IRG	90
WIFGTTLDSK	TQSL ⁴ LIVN <u>DA</u>	TNVVIKVECF	QFCNDPFLGV	YYHKN ⁵ <u>DKS</u> WM	ESEFRVYSSA	⁶ <u>NDCT</u> FEYVSQ	PFLMDLEGKQ	GNFKNLREFV	180
FKNIDGYFKI	YSKHTPINLV	<u>RDL</u> PQGFSAL	EPLVDLPIGI	⁷ <u>DIT</u> RFQTL ⁸ LLA	LHRSYLTPGD	SSSGWTAGAA	AYYVGYLQPR	TFL ⁸ LLKYNE <u>DG</u>	270
<u>TIT</u> DAVDCAL	<u>DPL</u> SETKCTL	KSFTVEKGIY	QTSNFRVQPT	ESIVRFP ⁹ <u>DIT</u>	NLCPFGEVFD	¹⁰ <u>AT</u> RFASVYAW	NRKRISNCVA	DYSILYNSAS	360
FSTFKCYGVS	PTKLN ¹¹ DL ¹² CFT	NVYADSFVIR	GDEV ¹³ RQIAPG	QTGKIADYNY	KLPDDFTGCV	IAWNSNNLDS	KVGGNYNYLY	RLFRKSNLKP	450
FERDISTEYI	QAGSTPCNGV	EGFNCYFPLQ	SYGFQPTNGV	GYQP ¹⁴ YRVVVL	SFELLHAPAT	VCGPKKSTNL	VKNKCVNFNF	NGLTGTGVLT	540
ESNKKFLPFQ	QFGRDIADTT	DAVRDPQ ¹⁵ TLE	ILDITPCSEFG	GVS ¹⁶ VITPGTD	¹⁷ <u>TS</u> NQVAVLYQ	GV ¹⁸ <u>DCT</u> EV ¹⁹ PVA	IHADQLTPTW	RVYSTGNSVF	630
QTRAGCLIGA	EHV ²⁰ <u>DNS</u> YECD	IPIGAGICAS	YQTQ ²¹ TNSPRR	ARSVASQ ²² SII	AYTMSLGAEN	SVAYS ²³ <u>DNS</u> IA	IPT ²⁴ <u>DFT</u> ISVT	TEILPVSMTK	720
TSVDCTMYIC	GDSTEC ²⁵ SNLL	LQYGSFCTQL	NRAL ²⁶ TGIAVE	QDKNTQEVFA	QVKQIYKTPP	IKDFGGF ²⁷ <u>DFS</u>	<u>QILPDPSPKS</u>	KRSFIEDLLF	810
NKVTLADAGF	IKQYGDCLGD	IAARDLICAQ	KFNGLTVLPP	LLTDEMIAQY	TSALLAGTIT	SGWTFGAGAA	LQIPFAMQMA	YRFNGIGVTQ	900
NVLYENQKLI	ANQFN ²⁸ SAIGK	IQDSL ²⁹ SSTAS	ALGKLQDVVN	QNAQALNTLV	KQLSSNFGAI	SSVLNDILSR	LDKVEAEVQI	DRLITGRLQS	990
LQTYVTQQLI	RAAEIRASAN	LAATKMSECV	LGQSKRVDFC	GKGYHLMSEF	QSAPHGVVFL	HVTYVPAQEK	³⁰ <u>DFT</u> TAPAICH	DGKAHPREG	1080
VFVS ³¹ <u>DGT</u> HWF	VTQRNFYEPQ	IITDNTFVS	GNC ³² DVVIGIV	³³ <u>DNT</u> VYDPLQ ³⁴	ELDSFKEELD	KYFK ³⁵ <u>DHT</u> SPD	VDLGDISG ³⁶ <u>D</u>	³⁷ <u>AS</u> VVNIQKEI	1170
DRLNEVAKNL	³⁸ <u>DES</u> LIDLQEL	GKYEQYIKWP	WYIWLGFIAG	LIAIVMVTIM	LCCMTSCCSC	LKGCCSCGSC	CKFDEDDSEP	VLKGVKLHYT	1260