

# MATRIX SCIENCE Mascot Search Results

## Peptide View

### MS/MS Fragmentation of **YSPTSPK**

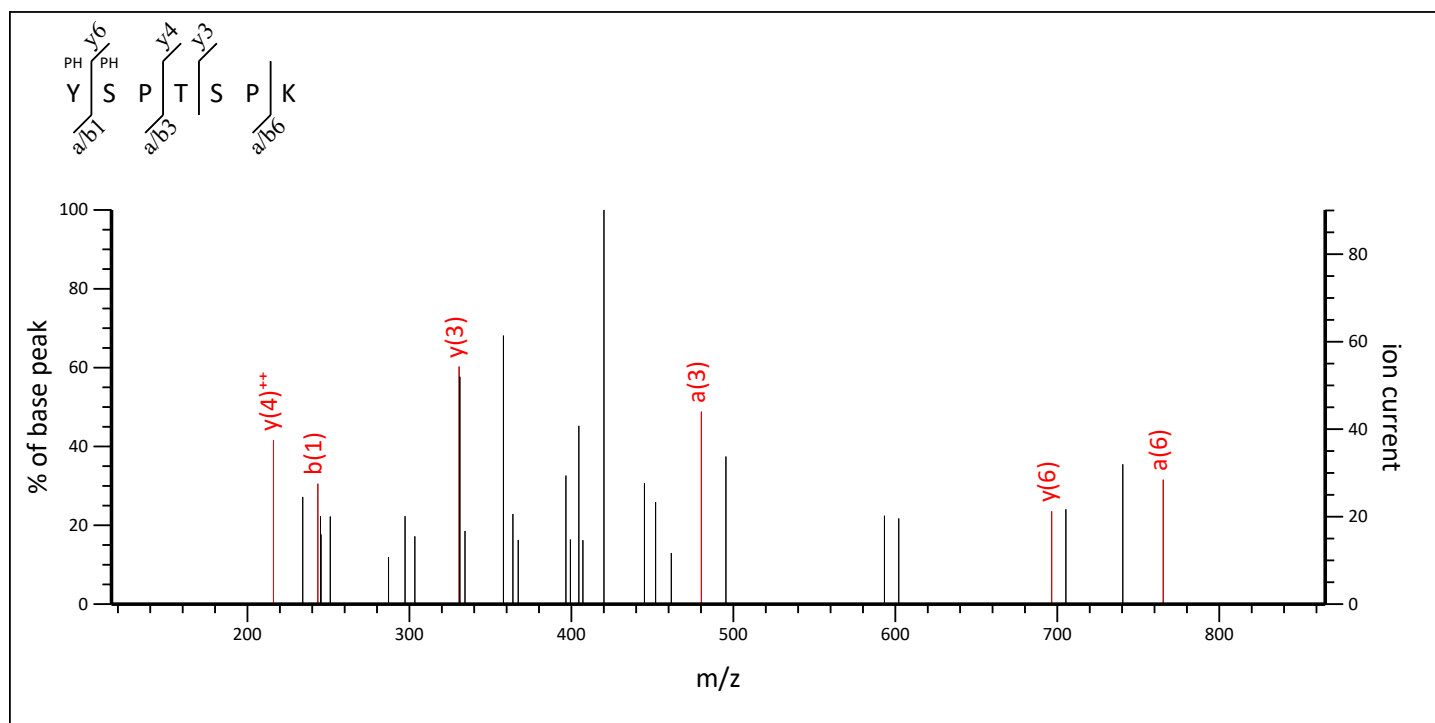
Found in **sp|P24928|RPB1\_HUMAN** in **UNIPROT\_HUMAN**, DNA-directed RNA polymerase II subunit RPB1 OS=Homo sapiens (Human) OX=9606 GN=POLR2A PE=1 SV=2

Match to Query 3196: 938.387788 from(470.201170,2+) intensity(737.4523) scans(4121) rawscans(sn4121) rtinseconds(472.47283) index(2263)

Title: 2264: Scan 4121 (rt=7.87455) [\\bmsi2.bpsod.shared-svc.local\EDDC\ETC1\MS - Mass Spec\xxx Data Transfer\Orbitrap\_RawData\U2OS\_InGel\200701\_U2OS\_01A.raw]

Data file \\bmsi2.bpsod.shared-svc.local\EDDC\ETC1\MS - Mass Spec\xxx Data

Transfer\Orbitrap\_RawData\U2OS\_InGel\200701\_U2OS\_01A.raw



Label all possible matches  Label matches used for scoring

Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 938.3188

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

Y1 : Phospho (Y)

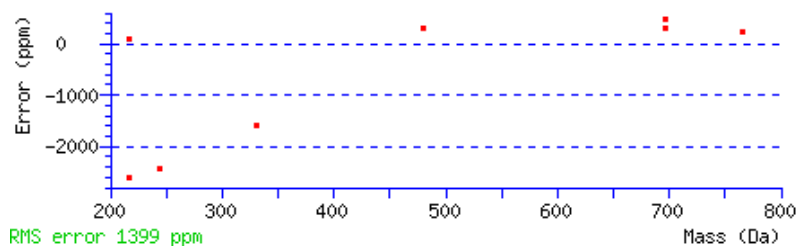
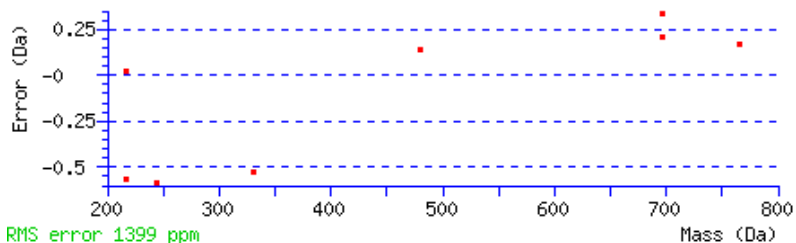
S2 : Phospho (ST), with neutral losses 0.0000(shown in table), 97.9769

Ions Score: 13 Expect: 1.2

Matches : 8/72 fragment ions using 12 most intense peaks ([help](#))

#	a	a <sup>++</sup>	b	b <sup>++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	#
1	<b>216.0420</b>	108.5246	<b>244.0369</b>	122.5221	<b>Y</b>					7
2	383.0404	192.0238	411.0353	206.0213	<b>S</b>	<b>696.2964</b>	348.6518	679.2698	340.1386	6
3	<b>480.0931</b>	240.5502	508.0881	254.5477	<b>P</b>	529.2980	265.1527	512.2715	256.6394	5
4	581.1408	291.0740	609.1357	305.0715	<b>T</b>	432.2453	<b>216.6263</b>	415.2187	208.1130	4
5	668.1729	334.5901	<b>696.1678</b>	348.5875	<b>S</b>	<b>331.1976</b>	166.1024	314.1710	157.5892	3

6	765.2256	383.1164	793.2205	397.1139	P	244.1656	122.5864	227.1390	114.0731	2
7					K	147.1128	74.0600	130.0863	65.5468	1



NCBI **BLAST** search of [YSPTSPK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

#### All matches to this query

Score	Mr(calc)	Delta	Sequence
14.4	938.4011	-0.0133	<a href="#">YNHINAK</a>
13.2	938.3205	0.0673	<a href="#">YNTSCSK</a>
13.0	938.3188	0.0690	<a href="#">YSPTSPK</a>
12.0	938.3188	0.0690	<a href="#">YSPTSPK</a>
9.8	938.4379	-0.0501	<a href="#">KDDTTMTK</a>
9.4	938.3188	0.0690	<a href="#">YSPTSPK</a>
9.3	938.5201	-0.1324	<a href="#">KAISLLSK</a>
9.2	938.4474	-0.0596	<a href="#">AAGSLLAEK</a>
7.4	938.3981	-0.0103	<a href="#">GGEEFGESK</a>
7.2	938.5549	-0.1671	<a href="#">QAAKPPISK</a>

Mascot: <http://www.matrixscience.com/>