





• GAVYSFDPVGSYQR • AIHSWLTR



Calnexin













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Ubiquitous α4 : >sp|014818|PSA7_HUMAN Proteasome subunit alpha type-7 OS=Homo sapiens GN=PSMA7 PE=1 SV=1 MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVR KICALDDNVCMAFAGLTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSN

GR<u>RPFGISALIVGFDFDGTPR</u>LYQTDPSGTYHAWKANAIGRGAKSVREFLEK<u>NYTDEAIET</u> DDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLK<u>ILNPEEIEK</u>YVAEIEKEKEENEKKKQKKAS Testis-specific α4 called α4s : >sp|Q8TAA3|PSA7L_HUMAN Proteasome subunit alpha type-7-like OS=Homo sapiens GN=PSMA8 PE=2 SV=3

MASRYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERT VRKICALDDHVCMAFAVLTIFIGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIATLK QKYTQSNGRRPFGISALIVGFDDDGISRLYQTDPSGTYHAWKANAIGRSAKTVREFLEKNY TEDAIASDSEAIKLAIKALLEVVQSGGKNIELAIIRRNQPLKMFSAKEVELYVTEIEKEKEEAEK KKSKKSV

Peptides common to \alpha4 and \alpha4s \rightarrow total \alpha4 position subunit quantity Peptides specific to \alpha4 (PSMA7) \rightarrow used to deduce α 4s absolute quantity





Total 20S proteasome quantity_a4 excluded

3	014818 Q8TAA3	PSA7 HUMAN PSMA8_HUMAN	1 1	MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERT MASRYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGIRGTNIVVLGVEKKSVAKLQDERT	
	014818 Q8TAA3	PSA7_HUMAN PSMA8_HUMAN	59 61	VRKICALDDNVCMAFAGLTADARIVINRARVECQSHRLTVEDPVTVEYITRYIA VRKICALDDHVCMAFAVLTIFIGLTADARVVINRARVECQSHKLTVEDPVTVEYITRFIA	
	014818 Q8TAA3	PSA7 HUMAN PSMA8_HUMAN	113 121	SLKQRYTQSNGRRPFGISALIVGFDFDGTPRLYQTDPSGTYHAWKANAIGRGAKSVREFL TLKQKYTQSNGRRPFGISALIVGFDDDGISRLYQTDPSGTYHAWKANAIGRSAKTVREFL	
	014818 Q8TAA3	PSA7 HUMAN PSMA8_HUMAN	173 181	EKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEIEKYVAEI EKNYTEDAIASDSEAIKLAIKALLEVVQSGGKNIELAIIRNQPLKMFSAKEVELYYTEI	
	014818 Q8TAA3	PSA7 HUMAN PSMA8_HUMAN	233 241	EKEKEENEKKKQKKAS EKEKEEAEKKKSKKSV	



Total 20S proteasome quantity_a4 excluded







