

Product datasheet for **RC203555**

PSAP (NM_002778) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSAP (NM_002778) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSAP
Synonyms:	GLBA; SAP1; SAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203555 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACGCCCTCTTCTCCTGGCCAGCCTCTGGCGCGGCTCTAGCCGGCCCGTCTTGGACTGAAAG
 AATGCACCAGGGCTCGGCAGTGTGGTGCAGAATGTGAAGACGGCGTCCGACTGCGGGGCAAGTGAAGCA
 CTGCCTGCAGACCGTTTGGAAACAAGCCAACAGTAAATCCCTTCCCTGCGACATATGCAAAGACGTTGTC
 ACCGCAGCTGGTATGCTGAAGGACAATGCCACTGAGGAGGAGATCCTTGTACTTGGAGAAGACCT
 GTGACTGGCTCCGAAACCGAACATGTCTGCTTCAAGGAGATAGTGGACTCCTACCTCCCTGTCAT
 CCTGGACATCATTAAAGGAGAAATGAGCCGCTCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGAGTCT
 CTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCAGAGCTGGACA
 TGACTGAGGTGGTGGCCCCCTTCATGGCCAACATCCCTCTCCTCCTACCTCAGGACGGCCCCCGCAG
 CAAGCCCCAGCCAAAGGATAATGGGGACGTTTCCAGGACTGCATTGAGTGGTACTGACATCCAGACT
 GCTGTACGGACCAACTCCACCTTTGTCCAGGCCTTGGTGGAAACATGTCAAGGAGGAGTGTACCCGCTGG
 GCCCTGGCATGGCCGACATATGCAAGAATATATCAGCCAGTATTCTGAAATTGCTATCCAGATGATGAT
 GCATGCAACCCAAGGAGATCTGTGCGCTGGTGGGTTCTGTGATGAGGTGAAAGAGATGCCCATGCAG
 ACTCTGGTCCCCGCCAAAGTGGCCTCCAAGAATGTATCCCTGCCTGGAAGTGGTGGAGCCATTAAGA
 AGCAGGAGTCCCAGCAAAGTCTGATGTTTACTGTGAGGTGTGTGAATCCTGGTGAAGGAGGTGACCAA
 GCTGATTGACAACAAGACTGAGAAAGAAATACTCGACGCTTTTGACAAAATGTCTCGAAGCTGCCG
 AAGTCCCTGTCCGAAAGAGTGCAGGAGGTGGTGGACACGTACGGCAGCTCCATCCTGTCCATCCTGCTGG
 AGGAGTTCAGCCCTGAGCTGGTGTGACGATGCTGCACCTCTGCTCTGGCAGCGGCTGCCTGACTGAC
 CGTTACGCTGACTCAGCCAAAGGACGGTGGCTTCTGCGAAGTGTGCAAGAAGCTGGTGGTTATTTGGAT
 CGCAACCTGGAGAAAAACAGCACCAAGCAGGAGATCCTGGCTGCTTGGAAAGGCTGCAGCTTCTGC
 CAGACCCTTACCAGAAGCAGTGTGATCAGTTTGTGGCAGAGTACGAGCCCGTGTGATCGAGATCCTGGT
 GGAGGTGATGGATCCTTCTTCTGTGCTTGAATTTGGAGCCTGCCCTCGGCCATAAGCCCTTGTG
 GGAAGTGAAGTGTATATGGGGCCAAGCTACTGGTCCAGAACACAGAGACAGCAGCCAGTGAATG
 CTGTCGAGCATTGCAAACGCCATGTGTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203555 protein sequence
 Red=Cloning site Green=Tags(s)

MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKSLPCDICKDVV
 TAAGDMLKDNATEEEILVYLEKTCDWLKPENMSASCKEIVDSYLPVILDIKGENSRPGEVCSALNLCES
 LQKHLAELNHQKQLESNKIPELDMTEVVAPFMANIPLLLYPQDGRSKPQPKDNGDVCQDCIQMVTDIQT
 AVRTNSTFVQALVEHVKEECDRLGPGMADICKNYISQYSEIAIQMMHMMPKEICALVGFCEVKEMPMQ
 TLVPAKVASKNVIPELELVEPIKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAFDKMSKLP
 KSLSEECQEVVDYTGSSILSILLEEVPELVCSMLHLCSTRLPALTVHVTQPKDGGFCEVCKKLVGYLD
 RNLEKNSTKQELAALEKGSFLPDYQKQCDQFVAEYEPVLEIEILVEVMDPSFVCLKIGACPSAHKPLL
 GTEKCIWGPSYWCQNTETAQAQNAVEHCKRHVWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6078_h08.zip

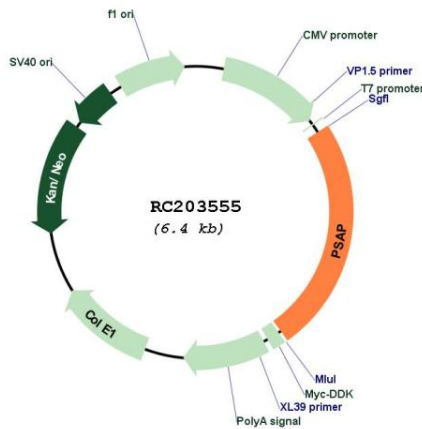
Restriction Sites:

SgfI-MluI

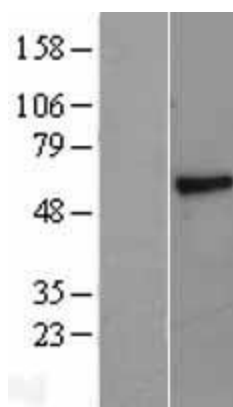
UniProt ID: [P07602](#)
Cytogenetics: 10q22.1
Domains: SAPA, SapB_1, SapB_2, SAPB
Protein Families: Druggable Genome
Protein Pathways: Lysosome
MW: 58.1 kDa

Gene Summary: This gene encodes a highly conserved preproprotein that is proteolytically processed to generate four main cleavage products including saposins A, B, C, and D. Each domain of the precursor protein is approximately 80 amino acid residues long with nearly identical placement of cysteine residues and glycosylation sites. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory protein and as an integral membrane protein and has neurotrophic activities. Mutations in this gene have been associated with Gaucher disease and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC203555



Western blot validation of overexpression lysate (Cat# [LY400986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203555 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).