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Product datasheet for SC125028

Tapasin (TAPBP) (NM_172209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tapasin (TAPBP) (NM_172209) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tapasin
Synonyms:	NGS17; TAPA; TPN; TPSN
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC125028 sequence for NM_172209 edited (data generated by NextGen Sequencing)

ATGAAGTCCCTGTCTCTGCTCCTCGCTGTGGCTTTGGGCCTGGCGACCGCCGTCTCAGCA
GGACCCGCGGTGATCGAGTGTTGGTTCGTGGAGGATGCGAGCGGAAAGGGCCTGGCCAAG
AGACCCGGTGCACTGCTGTTGCGCCAGGGACCCGGGGAACCGCCGCCCCGGCCGGACCTC
GACCCTGAGCTCTATCTCAGTGTACACGTGGTACTGACTGTCCTCACCCACACCCCTGCC
CCTCGAGTGAGACTGGGACAAGATGCTCTGCTGGACTTGAGCTTTGCCTACATGCCCCCC
ACCTCCGAGGCCGCCTCATCTCTGGCTCCGGGTCCCCCTCCCTTTGGGCTAGAGTGGCGA
CGCCAGCACCTGGGTAAGGGACATCTGCTCCTGGCTGCAACTCCTGGGCTGAATGGCCAG
ATGCCAGCAGCCCAAGAAGGGGCCGTGGCATTTGCTGCTTGGGATGATGATGAGCCATGG
GGCCCATGGACCGGAAATGGGACCTTCTGGCTGCCTAGAGTTCAACCCTTTCAGGAGGGC
ACCTATCTGGCCACCATACACCTGCCATACCTGCAAGGACAGGTCACCCTGGAGCTTGCT
GTGTACAAACCCCCCAAAGTGTCCCTGATGCCAGCAACCCTTGCACGGGCCGCCCCAGGG
GAGGCACCCCCGGAATTGCTCTGCCTTGTGTCCCACTTCTACCCTTCTGGGGGCCTGGAG
GTGGAGTGGGAACTCCGGGGTGGCCCAGGGGGCCGCTCTCAGAAGGCCGAGGGGCAGAGG
TGGCTCTCGGCCCTGCGCCACCATTCCGATGGCTCTGTCAGCCTCTCTGGGCACTTGCAG
CCGCCCCCAGTCACCACTGAGCAGCATGGGGCACGCTATGCCTGTCGAATTCACCATCCC
AGCCTGCCTGCCTCGGGGCGCAGCGCTGAGGTCACCCTGGAGGTAGCAGGTCTTTCAGGG
CCCTCCCTTGAGGACAGCGTAGGCCTTTTCCTGTCTGCCTTTCTTCTGCTTGGGCTCTTC
AAGGCACTGGGCTGGGCTGCTGTCTACCTGTCCACCTGCAAGGATTCAAAGAAGAAAGCA
GAGTGA

Clone variation with respect to NM_172209.2
153 g=>c;518 c=>g

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172209 unedited
ATATCCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTACCGGTGGGCAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACACGCTACTTGTTCTTTTTGCAGCGGCCG
CGAATTCGGCACGAGGGGAGGTCGCAGCGCCATGAAGTCCCTGTCTCTGCTCCTCGCTGT
GGCTTTGGGCCTGGCGACCGCCGTCTCAGCAGGACCCGCGGTGATCGAGTGTTGGTTCGT
GGAGGATGCGAGCGGAAAGGGCCTGGCCAAGAGACCCGGTGCACTGCTGTTGCGCCAGGG
ACCCGGGGAACCGCCGCCCCGGCCGGACCTCGACCCTGAGCTCTATCTCAGTGTACACGA
CCCCGCGGGCGCCCTCCAGGCTGCCTTCAGGCGGTATCCCCGGGGCGCCCCCGCACCACA
CTGCGAGATGAGCCGCTTCGTGCCTCTCCCCGCCTCTGCGAAATGGGCCAGCGGCCTGAC
CCCCGCGCAGAACTGCCCGCGGGCCCTGGATGGGGCTTGGCTGATGGTCAGCATATCCAG
CCCAGTCCTCAGCCTCTCCAGCCTCTTGCGACCACAGCCAGAGCCTCAGCAGGAGCCTGT
TCTCATCACCATGGCAACAGTGGTACTGACTGTCCTCACCCACACCCCTGCCCCTCGAGT
GAGACTGGGACAAGATGCTCTGCTGGACTTGAGCTTTGCCTACATGCCCCCCACCTCCGA
GGCCGCCTCATCTCTGGCTACGGGTCCCCCTCCCTTTTGGCTAGAGTGGCGACGCCAGCA
CCTGNGGTAGGGGACATCTGCTCCTGGCTGCAACTCCTGGGCTGAATGGCCAGATGCCAG
CAGCCCAAGAGGGGCCCGTGGCATATGCTGCTTGGGATGATGATGAGCCATGGGCCCCAT
GACCTGAACGGGCACCTTCTGCTGCCTAGAGTT

Restriction Sites: NotI-NotI

ACCN: NM_172209

Insert Size: 3900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_172209.1, NP_757346.1

RefSeq Size: 1410 bp

RefSeq ORF: 1239 bp

Locus ID: 6892

UniProt ID: O15533

Cytogenetics: 6p21.32

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Antigen processing and presentation

Gene Summary:

This gene encodes a transmembrane glycoprotein which mediates interaction between newly assembled major histocompatibility complex (MHC) class I molecules and the transporter associated with antigen processing (TAP), which is required for the transport of antigenic peptides across the endoplasmic reticulum membrane. This interaction is essential for optimal peptide loading on the MHC class I molecule. Up to four complexes of MHC class I and this protein may be bound to a single TAP molecule. This protein contains a C-terminal double-lysine motif (KKKAE) known to maintain membrane proteins in the endoplasmic reticulum. This gene lies within the major histocompatibility complex on chromosome 6. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (3) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (3) that is shorter than isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.