

Product datasheet for **SC312855**

Tapasin (TAPBP) (NM_172208) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Tapasin (TAPBP) (NM_172208) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TAPBP |
| Synonyms: | NGS17; TAPA; TPN; TPSN |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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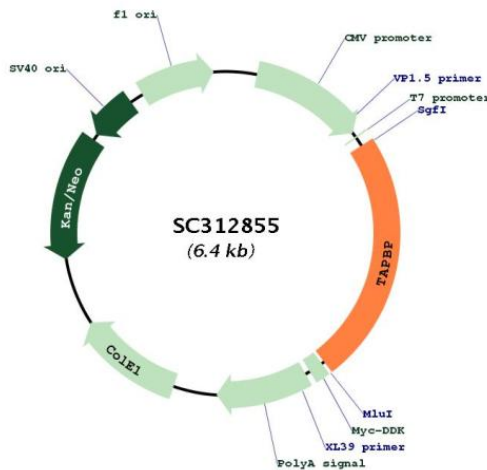
Fully Sequenced ORF: >SC312855 representing NM_172208.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTCCCTGTCTCTGCTCCTCGCTGTGGCTTTGGCCTGGCGACCGCCGTCTCAGCAGGACCCGGC
GTGATCGAGTGTGGTTCTGGAGGATGCGAGCGGAAAGGGCCTGGCCAAGAGACCCGGTGCAGTGTCTG
TTGCGCCAGGGACCGGGGAACCGCCGCCCGGGACCTCGACCCTGAGCTCTATCTCAGTGTACAC
GACCCCGCGGGCGCCCTCCAGGCTGCCTTCAGGCGGTATCCCGGGGCGCCCGCACCACACTGCGAG
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GCCAAGAAGGGGCCGTGGCATTGCTGCTGGGATGATGATGAGCCATGGGGCCATGGACCGGAAT
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TACCTGCAAGGACAGTCAACCTGGAGCTTGTGTGTACAAACCCCAAGTGTCCCTGATGCCAGCA
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CCCCAGTCAACTGAGCAGCATGGGGCAGCTATGCTGTGCAATTCACCATCCAGCCCTGCCTGCC
TCGGGGCGCAGCGCTGAGGTACCCTGGAGTAGCAGGTCTTTTCAAGGCCCTCCCTTGAGGACAGCGTA
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CCTCATCTATCTCAAACCCATGGAGGGAGGCTGCTGGTGTGGTAGGCAGAACCTAGGCTTGAATTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_172208

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| Insert Size: | 1515 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <ol style="list-style-type: none"> 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_172208.2 |
| RefSeq Size: | 2003 bp |
| RefSeq ORF: | 1515 bp |
| Locus ID: | 6892 |
| UniProt ID: | O15533 |
| Cytogenetics: | 6p21.32 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Antigen processing and presentation |
| MW: | 53.9 kDa |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1.</p> |