

Product datasheet for **RG219599**

Tapasin (TAPBP) (NM_172208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tapasin (TAPBP) (NM_172208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tapasin
Synonyms:	NGS17; TAPA; TPN; TPSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219599 representing NM_172208 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCCCTGTCTCTGCTCCTCGCTGTGGCTTTGGCCTGGCGACCGCCGTCTCAGCAGGACCCGCGG
TGATCGAGTGTTGGTTCGTGGAGGATGCGAGCGGAAAGGGCCTGGCCAAGAGACCCGGTGCCTGCTGTT
GCGCCAGGACCGGGGAACCGCCGCCCGCCGACCTCGACCCTGAGCTCTATCTCAGTGTACACGAC
CCCGGGCGCCCTCCAGGCTGCCTTCAGGCGGTATCCCGGGCGCCCGCCGACACACTGCGAGATGA
GCCGCTTCGTGCCTCTCCCGCCTCTGCGAAATGGCCAGCGGCCTGACCCCGCGCAGAAGTCCCGCGG
GGCCTGGATGGGCTTGGCTGATGGTCAGCATATCCAGCCAGTCTCAGCCTCTCCAGCCTTTGCGA
CCACAGCCAGAGCCTCAGCAGGAGCCTGTTCTCATCACCATGGCAACAGTGGTACTGACTGTCTCACCC
ACACCCCTGCCCTCGAGTGAGACTGGGACAAGATGCTCTGCTGGACTTGAGCTTTGCTACATGCCCC
CACCTCCGAGGCCGCTCATCTCTGGCTCCGGTCCCCCTCCCTTTGGGCTAGAGTGGCGAGCCAGCAC
CTGGGTAAGGGACATCTGCTCCTGGTGAACCTCTGGCTGAATGGCCAGATGCCAGCAGCCAAAGAA
GGCCGTGGCATTGCTGCTTGGGATGATGATGAGCCATGGGGCCATGGACCGAAATGGACCTTCTG
GCTGCCTACAGTTCAACCCTTTCAGGAGGGCACCTATCTGGCCACCATACACCTGCCATACCTGCAAGGA
CAGGTCACCCTGGAGCTTGTGTACAGTGAGTTGGGGACAGAGGTCTCCAGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219599 representing NM_172208
 Red=Cloning site Green=Tags(s)

MKSL S L L L A V A L G L A T A V S A G P A V I E C W F V E D A S G K L A K R P G A L L L R Q G P G E P P P R P D L D P E L Y L S V H D
 P A G A L Q A A F R R Y P R G A P A P H C E M S R F V P L P A S A K W A S G L T P A Q N C P R A L D G A W L M V S I S S P V L S L S L L R
 P Q F E P Q Q E P V L I T M A T V V L T V L T H T P A P R V R L G Q D A L L D L S F A Y M P P T S E A A S S L A P G P P P F G L E W R R Q H
 L G K G H L L L A A T P G L N G Q M P A A Q E G A V A F A A W D D D E P W G P W T G N G T F W L P T V Q P F Q E G T Y L A T I H L P Y L Q G
 Q V T L E L A V Y S E L G D R G L Q G

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172208

ORF Size: 897 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_172208.1](#), [NP_757345.1](#)

RefSeq Size: 2404 bp

RefSeq ORF: 1515 bp

Locus ID: 6892

UniProt ID: [O15533](#)

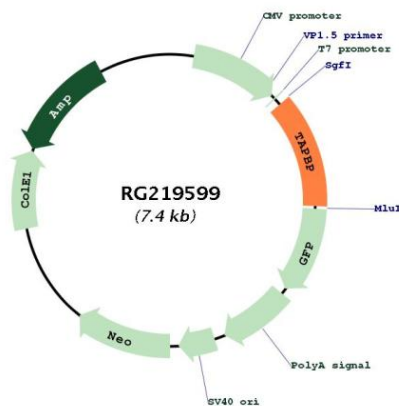
Cytogenetics: 6p21.32

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Antigen processing and presentation

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]

Product images:



Circular map for RG219599

