*h*Tapasin/TAPBP VersaClone cDNA

Catalog Number: RDC2228

Specifications:

Gene:	*h*TAPBP
Accession:	NP_003181
Insert size:	1360bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

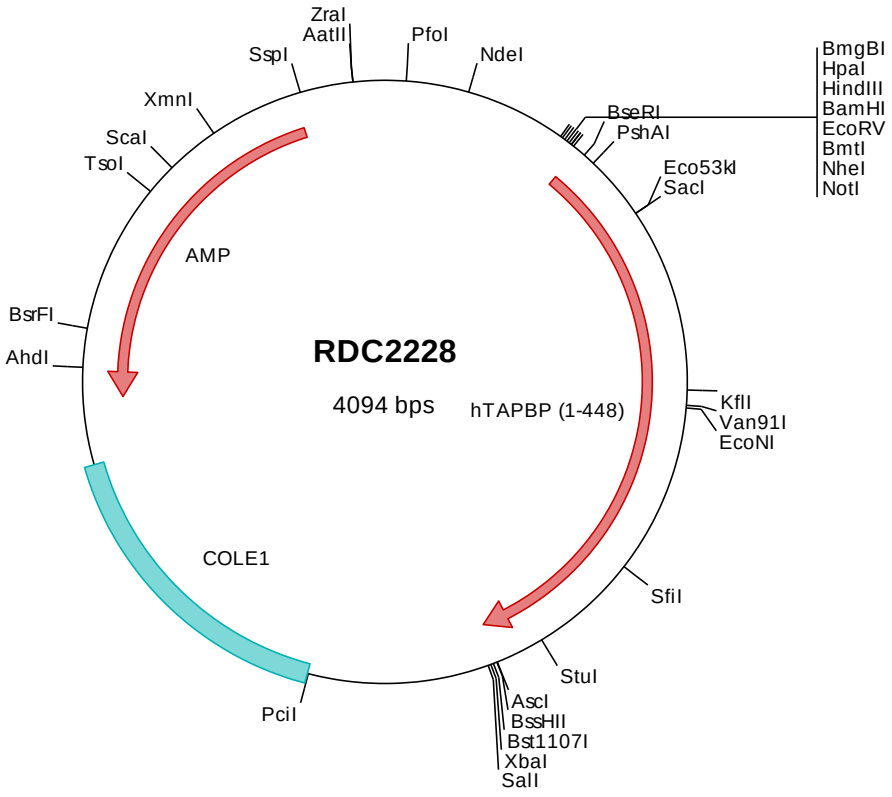
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Tapasin/TAPBP cDNA Plasmid

TAPBP TAP binding protein
[*Homo sapiens* (human)]

Also known as: TPN; TAPA; TPSN; NGS17

Summary:
TAPBP is 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 TAPBP may be bound to a single TAP molecule.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC2228 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaagtccc tgtctctgct cctcgctgtg gctttgggcc tggcgaccgc
 501  cgtctcagca ggacccgcgg tgatcgagtg ttggttcgtg gaggatgcga gcggaaaggg cctggccaag agacccggtg cactgctgtt gcgccaggga
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 701  ggggcgcccc cgcaccacac tgcgagatga gccgcttcgt gcctctcccc gcctctgcga aatgggccag cggcctgacc cccgcgcaga actgcccgcg
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1701  cctgtctgcc tttcttctgc ttgggctctt caaggcactg ggctgggctg ctgttctacct gtccacctgc aaggattcaa agaagaaagc agagtaaagg
1801  cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt
1901  tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatgag tgagctaact cacattaatt gcgttgcgct
2001  cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc
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3701  ggaaaacgtt cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct tcagcatctt
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> RDC2228 Translated Insert Sequence

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 201  pfglewrrqh lgkghlllaa tpglngqmpa aqegavafaa wdddepwgpw tgngtfwlpt vqpfqegtyl atihlpylqg qvtlelavyk ppkvslmpat
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