

Product datasheet for RC217508

TAPA1 (CD81) (NM_004356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAPA1 (CD81) (NM_004356) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAPA1
Synonyms:	CVID6; S5.7; TAPA1; TSPAN28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217508 representing NM_004356 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGTGGAGGGCTGCACCAAGTGCATCAAGTACCTGCTCTTCGTCTTCAATTCGTCTTCTGGCTGG
CTGGAGGCGTGATCCTGGGTGTGGCCCTGTGGCTCCGCCATGACCCGAGACCACCAACCTCCTGTATCT
GGAGCTGGGAGACAAGCCCGGCCCAACACCTTCTATGTAGGCATCTACATCCTCATCGTGTGGGCGCT
GTCATGATGTTTCGTTGGCTTCTGGGCTGCTACGGGGCCATCCAGGAATCCAGTGCCTGCTGGGACGT
TCTTACCTGCCTGGTCACTCCTGTTTGCCTGTGAGGTGGCCGCCGCATCTGGGGCTTTGTCAACAAGGA
CCAGATCGCCAAGGATGTGAAGCAGTTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCC
AACAACGCCAAGGCTGTGGTGAAGACCTTCCACGAGACGCTTGACTGCTGTGGCTCCAGCACACTGACTG
CTTTGACCACCTCAGTGTCAAGAACAATTTGTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAA
GGAGGACTGCCACCAGAAGATCGATGACCTCTTCTCCGGGAAGCTGTACCTCATCGGCATTGCTGCCATC
GTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCATGGTGTGCTGTGCTGTGGCATCCGGAACAGCT
CCGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217508 representing NM_004356
 Red=Cloning site Green=Tags(s)

MGVEGCTKCIKYLLFVFNFFVWLAGGVILGVALWLRHDPQTNNLLYLELGDKPAPNTFFVGIYILIAVGA
 VMMFVGFLLGCGYAIQESQCLLGTFFFTCLVILFACEVAAGIWFVFNKDQIAKDVKQFYDQALQQAVVDDDA
 NNAKAVVKTFHETLDCCGSSTLTALTTSVLKNLCPSGSNII SNLFKEDCHQKIDDLFSGKLYLIGIAAI
 VVAVIMIFEMILSMVLCGGIRNSSVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

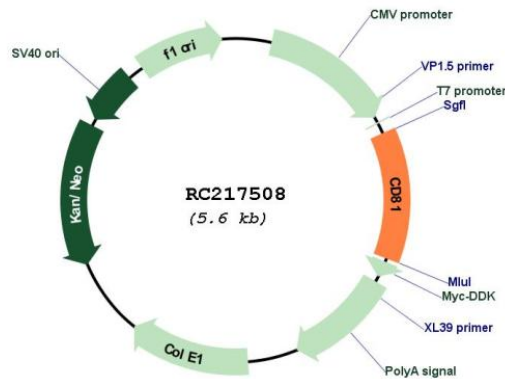
Chromatograms: https://cdn.origene.com/chromatograms/mk6268_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



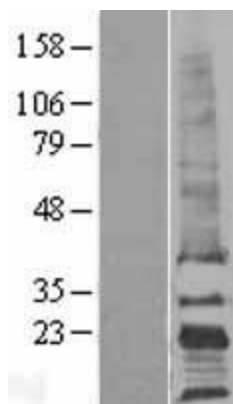
Plasmid Map:



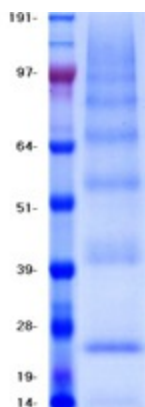
ACCN: NM_004356

ORF Size: 708 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:	<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_004356.4
RefSeq Size:	1497 bp
RefSeq ORF:	711 bp
Locus ID:	975
UniProt ID:	P60033
Cytogenetics:	11p15.5
Domains:	transmembrane4
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	B cell receptor signaling pathway
MW:	25.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

Product images:

Western blot validation of overexpression lysate (Cat# [LY418041]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217508 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD81 protein (Cat# [TP317508]). The protein was produced from HEK293T cells transfected with CD81 cDNA clone (Cat# RC217508) using MegaTran 2.0 (Cat# [TT210002]).