

## Product datasheet for **RG217508**

### **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:** TurboGFP  
**Symbol:** TAPA1  
**Synonyms:** CVID6; S5.7; TAPA1; TSPAN28  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217508 representing NM\_004356  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGTGGAGGGCTGCACCAAGTGCATCAAGTACCTGCTCTTCGTCTTCAATTCGTCTTCTGGCTGG  
CTGGAGGCGTGATCCTGGGTGTGGCCCTGTGGCTCCGCCATGACCCGAGACCACCAACCTCCTGTATCT  
GGAGCTGGGAGACAAGCCCGGCCCAACACCTTCTATGTAGGCATCTACATCCTCATCGTGTGGGCGCT  
GTCATGATGTTTCGTTGGCTTCTGGGCTGCTACGGGGCCATCCAGGAATCCAGTGCCTGCTGGGGACGT  
TCTTCACCTGCCTGGTCATCCTGTTTGCTGTGAGGTGGCCGCCGCATCTGGGGCTTTGTCAACAAGGA  
CCAGATCGCCAAGGATGTGAAGCAGTTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCC  
AACAACGCCAAGGCTGTGGTGAAGACCTTCCACGAGACGCTTGACTGCTGTGGCTCCAGCACACTGACTG  
CTTTGACCACCTCAGTGTCAAGAACAATTTGTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAA  
GGAGGACTGCCACCAGAAGATCGATGACCTCTTCTCCGGGAAGCTGTACCTCATCGGCATTGCTGCCATC  
GTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCATGGTGTGCTGTGGCATCCGGAACAGCT  
CCGTGTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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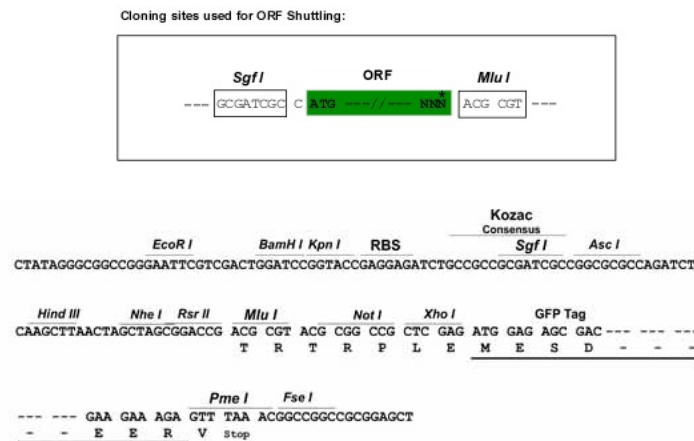
**Protein Sequence:** >RG217508 representing NM\_004356  
 Red=Cloning site Green=Tags(s)

MGVEGCTKCIKYLLFVFNFFVWLAGGVILGVALWLRHDPQTTNLLYLELGDKPAPNTFYVGIYILIAVGA  
 VMMFVGFLLGCGYAIQESQCLLGTFFFTCLVILFACEVAAGIWFVVKDQIAKDVKQFYDQALQQAVVDDDA  
 NNAKAVVKTFHETLDCCGSSTLTALTTSVLKNLCPSGSNII SNL FKEDCHQKIDDLFSGKLYLIGIAAI  
 VVAVIMIFEMILSMVLCCGIRNSSVY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004356

**ORF Size:** 708 bp

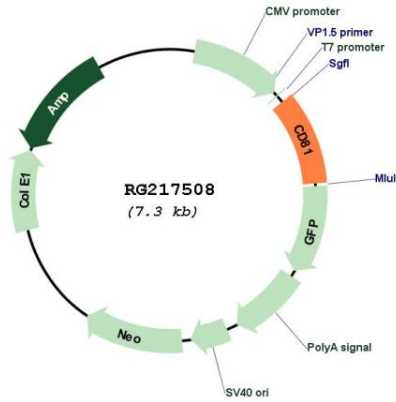
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004356.4</a>
<b>RefSeq Size:</b>	1497 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	975
<b>UniProt ID:</b>	<a href="#">P60033</a>
<b>Cytogenetics:</b>	11p15.5
<b>Domains:</b>	transmembrane4
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	B cell receptor signaling pathway
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG217508