

OriGene Technologies, Inc.

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Product datasheet for RG236199

TAPA1 (CD81) (NM_001297649) Human Tagged ORF Clone

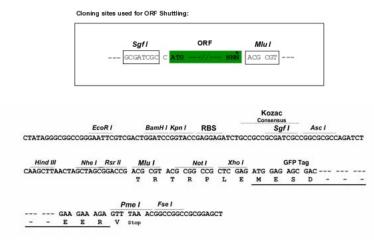
Product data:

Product Type:	Expression Plasmids
Product Name:	TAPA1 (CD81) (NM_001297649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD81
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:	<pre>>RG236199 representing NM_001297649. Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGCGCGCGCGCCGCCATGATGTTCGTTGGCTTCCTGGGCTGCTACGGGGCCATCCAGGAATCCCAGTGCCTGCTGGGGACGTTCTTCACCTGCCTGGTCATCCTGTTTGCCTGTGAGGTGGCCGCCGGCAGCATCTGGGGCTTTGTCAACAAGGACCAGATCGCCAAGGATGTGAAGACGATTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCCAACAACGCCAAGGCTGTGGTGAAGACCTTCCACGAGACGCTTGACTGCGGCGCCACACACTGACTGCTTTGACCACCTCAGTGGCTCAAGAACAATTTGTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAAGGAGGACTGCCACCAGAAGATCGATGACCTCTTCTCCGGGAAGCTGTACCTCATCGGCATTGCTGCCATCGTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCATGGTGCTGTGGCTGTGGCATCCGGAACAGCTCCGTGTACACGCGCTCCGGCCCCCCGAGACGCGCCCCCCCGAGACGCGCCCCCCCGAGCGCCTCGGGCCCCCCCGAGACGCGCCCCCCCGAGACGCCCCCCCCCAGAACGCCCCCCCCCCCCAGAACGCCCCCCCCCCCCCCCAGAACGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Protein Sequence:	<pre>>Peptide sequence encoded by RG236199 Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	MMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVVDDDA NNAKAVVKTFHETLDCCGSSTLTALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAA IVVAVIMIFEMILSMVLCCGIRNSSVY TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
Restriction Sites:	Sgfl-Mlul

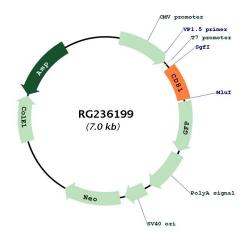


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Cloning Scheme:



Plasmid Map:



ACCN:	NM_001297649
ORF Size:	495 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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	1 (CD81) (NM_001297649) Human Tagged ORF Clone – RG236199
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).
RefSeq:	<u>NM 001297649.1, NP 001284578.1</u>
RefSeq Size:	1379 bp
RefSeq ORF:	498 bp
Locus ID:	975
UniProt ID:	<u>P60033</u>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	B cell receptor signaling pathway
MW:	18.4 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]

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