

## Product datasheet for **RG202000**

### CD9 (NM\_001769) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD9 (NM_001769) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD9
Synonyms:	BTCC-1; DRAP-27; MIC3; MRP-1; TSPAN-29; TSPAN29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202000 representing NM_001769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGTCAAAGGAGGCACCAAGTGCATCAAATACCTGCTGTTCCGGATTTAACTTCATCTTCTGGCTTG  
CCGGGATTGCTGTCCTTGCCATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTTCGAGCA  
AGAACTAATAATAAATTCCAGCTTCTACACAGGAGTCTATATTCTGATCGGAGCCGGCCCTCATG  
ATGCTGGTGGCTTCTGGGCTGCTGCGGGCTGTGCAGGAGTCCAGTGCATGCTGGGACTGTTCTTCG  
GCTTCTCTTGGTGATATTCGCCATTGAAATAGCTGCGGCCATCTGGGGATATCCACAAGGATGAGGT  
GATTAAGGAAGTCCAGGAGTTTTACAAGGACACCTACAACAAGCTGAAAACCAAGGATGAGCCCCAGCGG  
GAAACGCTGAAAGCCATCCACTATGCGTTGAACTGCTGTGGTTTGGCTGGGGCGTGGAACAGTTTATCT  
CAGACATCTGCCCAAGAAGGACGTACTCGAAACCTTCACCGTGAAGTCCTGTCCTGATGCCATCAAAGA  
GGTCTTCGACAATAAATTCCACATCATCGGCGCAGTGGGCATCGGCATTGCCGTGGTTCATGATTTGGC  
ATGATCTTCAGTACGATCTGTGCTGTGCTATCCGAGGAACCGCGAGATGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202000 representing NM\_001769  
 Red=Cloning site Green=Tags(s)

MPVKGGTKCIKYLLFGFNFIWLAGIAVLAIGLWLRFDSTKSIQETNNNNSSFYTGVIYILIGAGALM  
 MLVGFLGCCGAVQESQCMLGLFFGFLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLTKDEPQR  
 ETLKAIHYALNCCGLAGGVEQFISDIPCCKDVLETFVTKSCPDAIKEVFDNKFHIIIGAVGIGIAVVMIFG  
 MIFSTILCCAIRRNREMV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001769

**ORF Size:** 684 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\\_001769.2](#), [NP\\_001760.1](#)

**RefSeq Size:** 1246 bp

**RefSeq ORF:** 687 bp

**Locus ID:** 928

**UniProt ID:** [P21926](#)

**Cytogenetics:** 12p13.31

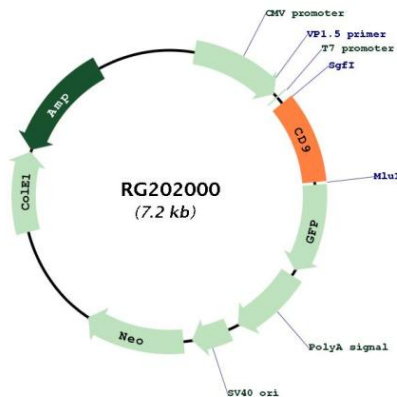
**Domains:** transmembrane4

**Protein Families:** Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Hematopoietic cell lineage

**Gene Summary:** This gene encodes a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins are cell surface glycoproteins with four transmembrane domains that form multimeric complexes with other cell surface proteins. The encoded protein functions in many cellular processes including differentiation, adhesion, and signal transduction, and expression of this gene plays a critical role in the suppression of cancer cell motility and metastasis. [provided by RefSeq, Jan 2011]

### Product images:



Circular map for RG202000