

Product datasheet for **MG226288**

Cd9 (NM_007657) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd9 (NM_007657) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd9
Synonyms:	Tspan29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226288 representing NM_007657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCAAAGGAGGTAGCAAGTGCATCAAATACCTGCTCTTCGGATTAACTTCATCTTCTGGCTCG
CTGGCATTGCAGTGCTTGCTATTGGACTATGGCTCCGATTCGACTCTCAGACCAAGAGCATCTTCGAGCA
AGAGAATAACCATTCCAGTTTCTACACAGGAGTGTACATTCTGATTGGAGCCGGGGCCCTCATGATGCTG
GTTGGTTTCTGGGCTGCTGTGGAGCTGTACAAGAGTCCCAGTGCATGCTGGGATTGTTCTTCGGGTTCC
TCTTGGTGATATTCGCCATTGAGATAGCCGCCGCCGTCTGGGGCTATACCCACAAGGATGAGGTGATTAA
AGAACTCCAGGAGTTTTACAAGGACACCTACCAAAAGTTACGGAGCAAGGATGAACCCACAGCGGGAACA
CTCAAAGCCATCCATATGGCGTTGGACTGCTGTGGCATAGCTGGTCCTTTGGAGCAGTTTATCTCGGACA
CCTGCCCCAAGAAACAGCTTTTGAAAGTTTCCAGGTTAAGCCCTGCCCTGAAGCCATCAGTGAGGTCTT
CAACAACAAGTTCCACATCATTGGAGCAGTGGGTATCGGCATCGCCGTGGTGATGATCTTCGGCATGATC
TTCAGCATGATCCTGTGCTGCGCCATCCGAGGAGCCGAGAAATGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226288 representing NM_007657
 Red=Cloning site Green=Tags(s)

MPVKGGSKCIKYLLFGFNFIWLAGIAVLAIGLWLRFDSTKSIQENNHSSFYTGVIYILIGALMML
 VGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSKDEPQRET
 LKAIHMALDCCGIAGPLEQFISDTCPPKQLLESFQVKPCPEAISEVFNNKFHIIIGAVGIGIAVVMIFGMI
 FSMILCCAIRRSREMV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007657

ORF Size: 678 bp

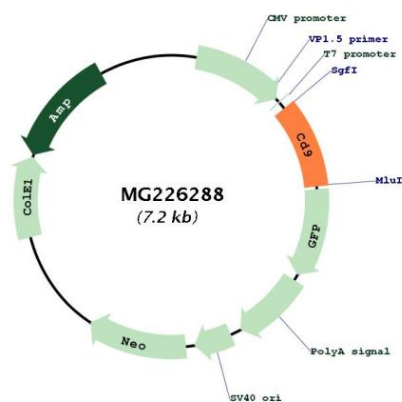
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007657.4
RefSeq Size:	1306 bp
RefSeq ORF:	681 bp
Locus ID:	12527
UniProt ID:	P40240
Cytogenetics:	6 59.32 cM
Gene Summary:	<p>Integral membrane protein associated with integrins, which regulates different processes, such as sperm-egg fusion, platelet activation and aggregation, and cell adhesion (PubMed:10700183, PubMed:10634790, PubMed:10634791, PubMed:14715942). Present at the cell surface of oocytes and plays a key role in sperm-egg fusion, possibly by organizing multiprotein complexes and the morphology of the membrane required for the fusion (PubMed:10700183, PubMed:10634790, PubMed:10634791, PubMed:21690351). In myoblasts, associates with CD81 and PTGFRN and inhibits myotube fusion during muscle regeneration (PubMed:23575678). In macrophages, associates with CD9 and beta-1 and beta-2 integrins, and prevents macrophage fusion into multinucleated giant cells specialized in ingesting complement-opsonized large particles. Also prevents the fusion between mononuclear cell progenitors into osteoclasts in charge of bone resorption (PubMed:12796480). Acts as a receptor for PSG17 (PubMed:11805154). Involved in platelet activation and aggregation (PubMed:14715942). Regulates paranodal junction formation (PubMed:14715942). Involved in cell adhesion, cell motility and tumor metastasis (By similarity). Also regulates integrin-dependent migration of macrophages, particularly relevant for inflammatory response in the lung (PubMed:18662991).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG226288