

Product datasheet for **MG226615**

Cd44 (NM_001039151) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_001039151) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd44
Synonyms:	AU023126; AW121933; AW146109; HERMES; Ly-24; Pgp-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226615 representing NM_001039151 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAGTTTTGGTGGCACACAGCTTGGGGACTTTGCCTCTTGCAGTTGAGCCTGGCACATCCACATC
AGCAGATCGATTTGAATGTAACCTGCCGCTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAG
TATCTCCCGACTGAGGCAGCTGACCTCTGCCAGGCTTCAACAGTACCTTACCCACCATGGACCAATG
AAGTTGGCCCTGAGCAAGGTTTTGAAACATGCAGGTATGGTTTCATAGAAGGAAATGTGGTAATCCGA
GGATTCATCCCAACGCTATCTGTGCAGCAACCCACACAGGAGTATATATCCTCGTCAGTCCAACACCTC
CCACTATGACACATATTGCTTCAATGCCTCAGCCCTCCTGAAGAAGACTGTACATCAGTCACAGACCTA
CCCAATTCCTTCGATGGACCGGTTACCATAACTATTGTCAACCGTGATGGTACTCGCTACAGCAAGAAGG
GCGAGTATAGAACACACCAAGAAGACATCGATGCTTCAAACATTATAGATGACGATGTCAGCAGCGGCTC
CACCATCGAGAAGAGCACCCAGAAAGTACATTTTGCACACCTACCTTCTACTGAACAGCCTACTGGA
GATCAGGATGACTCCTTCTTTATCCGGAGCACCTTGCCACCAGAGATCGAGACTCATCCAAGGACTCCA
GGGGGAGTTCCCGCACTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGCGAACCCAGGACAGTGG
AGTGACCACAACCTCTGGTCTATGAGGAGACCTCAGATCCAGAATGGCTCATCATCTTGGCATCTCTC
CTGGCACTGGCTGATTCTTCCGCTCTGCATCGCGGTCAATAGTAGGAGAAGGTGTGGCAGAAGAAAA
AGCTGGTATCAACGGTGGCAATGGGACGGTGAAGACAGGAAACCCAGTGAAGTCAACGGGAGGCCAG
CAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAACCATCAGAGACCCCGGACCAGTGTATGACAGCT
GACGAGACCCGGAATCTGCAGAGTGTGGACATGAAGATTGGGGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226615 representing NM_001039151
 Red=Cloning site Green=Tags(s)

MDKFWWHTAWGLCLLQLSLAHPHQQIDLNVTCRYAGVFHVEKNGRYSISRTEADLCQAFNSTLPTMDQM
 KLALSKGFETCRYGFIENNVVPIRIHPNAICAAHNTGVYILVTSNTSHYDTCFNASAPPEEDCTSVDL
 PNSFDGPVTITIVNRDGTTRYSKKGEYRTHQEDIDASNIIDDDVSSGSTIEKSTPESYILHTYLPTEQPTG
 DQDDSFIRSTLATRDRSSKDSRGSRTVTHGSELAGHSSANQDSGVTTTSGPMRRPQIPEWLIIILASL
 LALALILAVCIAVNSRRRCGQKKKLVINGNGTVEDRKPSELNGEASKSQEMVHLVNKEPSETPDQCMTA
 DETRNLQSVDKIGV

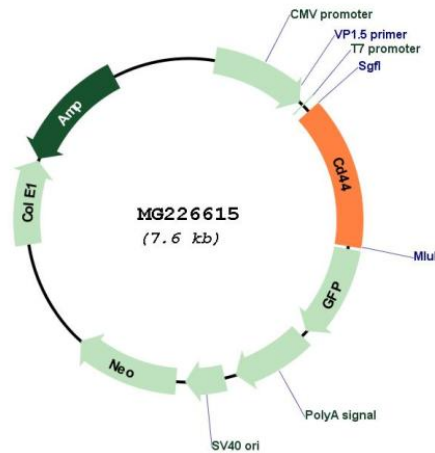
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039151

ORF Size:	1095 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_001039151.1 , NP_001034240.1
RefSeq Size:	4409 bp
RefSeq ORF:	1098 bp
Locus ID:	12505
UniProt ID:	P15379
Cytogenetics:	2 54.13 cM
Gene Summary:	Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:8343954, PubMed:25065622). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (By similarity). [UniProtKB/Swiss-Prot Function]