

## Product datasheet for **MG226279**

### Cd40lg (NM\_011616) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd40lg (NM_011616) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd40lg
Synonyms:	CD40-L; Cd40l; CD154; gp39; HIGM1; IGM; IMD3; Ly-62; Ly62; T-BAM; Tnfsf5; Tnlg8b; TRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226279 representing NM_011616 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGATAGAAACATACAGCCAACCTTCCCCAGATCCGTGGCAACTGGACTTCCAGCGAGCATGAAGATTT  
TTATGTATTTACTTACTGTTTTCCCTTATCACCCAAATGATTGGATCTGTGCTTTTGTGTGTATCTTCA  
TAGAAGATTGGATAAGGTCGAAGAGGAAGTAAACCTTCATGAAGATTTTGTATTCATAAAAAAGCTAAAG  
AGATGCAACAAAGGAGAAGGATCTTATCCTTGCTGAACTGTGAGGAGATGAGAAGGCAATTTGAAGACC  
TTGTCAAGGATATAACGTTAAACAAAGAAGAGAAAAAAGAAAACAGCTTTGAAATGCAAAGAGGTGATGA  
GGATCCTCAAATTCAGCACACGTTGTAAGCGAAGCCAACAGTAATGCAGCATCCGTTCTACAGTGGGCC  
AAGAAAGGATATTATACCATGAAAAGCAACTTGGTAATGCTTGAATGGAAACAGCTGACGGTAAAA  
GAGAAGGACTCTATTATGTCTACACTCAAGTCACCTTCTGCTCTAATCGGGAGCCTTCGAGTCAACGCC  
ATTCATCGTCGGCCTCTGGCTGAAGCCCAGCAGTGGATCTGAGAGAATCTTACTCAAGCGGCAAAATACC  
CACAGTTCCTCCAGCTTTGCGAGCAGCAGTCTGTTCACTTGGCGGAGTGTGTTGAATTACAAGCTGGTG  
CTTCTGTGTTTGTCAACGTGACTGAAGCAAGCCAAGTGATCCACAGAGTTGGCTTCTCATCTTTGGCTT  
ACTCAAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226279 representing NM\_011616  
Red=Cloning site Green=Tags(s)

MIETYSQSPRSVATGLPASMKIFMYLLTVFLITQMIGSVLFAVYLHRRLDKVEEEVNLHEDFVFIKLLK  
 RCNKGEGLSLLNCEEMRRQFEDLVKDI TLNKEEKENSFEMQRGDEDPQIAAHVVSEANSNAASVLQWA  
 KKGYYTMKSNLVMLENGKQLTVKREGLYVYVTVTFCSNREPSSQRPFI VGLWLKPPSSGSERILLKAANT  
 HSSSQLCEQQSVHLGGVFELQAGASVFNVTASQVIHRVGFSSFGLLKL

TRTRPLE - GFP Tag - V

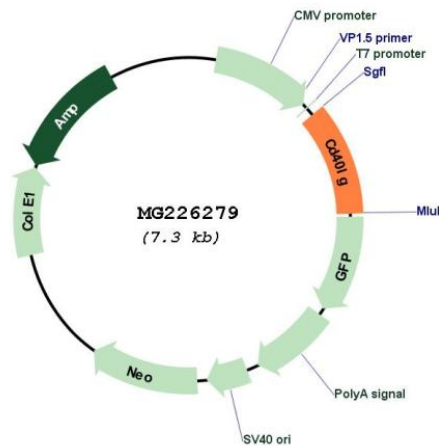
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_011616

**ORF Size:** 780 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_011616.2</a> , <a href="#">NP_035746.2</a>
<b>RefSeq Size:</b>	1250 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	21947
<b>UniProt ID:</b>	<a href="#">P27548</a>
<b>Cytogenetics:</b>	X 31.21 cM
<b>Gene Summary:</b>	Cytokine that binds to CD40/TNFRSF5. Costimulates T-cell proliferation and cytokine production. Its cross-linking on T-cells generates a costimulatory signal which enhances the production of IL4 and IL10 in conjunction with the TCR/CD3 ligation and CD28 costimulation. Induces the activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells (By similarity). Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4. Involved in immunoglobulin class switching (PubMed:1374165). [UniProtKB/Swiss-Prot Function]