

Product datasheet for **MC217427**

Lag3 (NM_008479) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lag3 (NM_008479) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lag3
Synonyms:	CD223; LAG-3; Ly66
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217427 representing NM_008479
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGAGGACCTGCTCCTTGCTTTTTGCTTCTGGACTGCTTTGGGAAGCTCCAGTTGTGTCTTCAG
 GGCTGGGAAAGAGCTCCCGTGGTGTGGGCCAGGAGGAGCTCCCGTCCATCTCCCTGCAGCCTCAA
 ATCCCCAACCTGGATCCTAACTTTCTACGAAGAGGAGGGTTATCTGGCAACATCAACCAGACAGTGGC
 CAACCCACTCCCATCCCGGCCCTTGACCTTACCAGGGGATGCCCTCGCCTAGACAACCCGACCCGGTC
 GCTACACGGTGTGAGCGTGGCTCCAGGAGGCCTGCGCAGCGGGAGGCAGCCCTGCATCCCCACGTGCA
 GCTGGAGGAGCGCGCCTCCAGCGCGGGACTTCTCTGTGTTGCGCCAGCTCTGCGCACCGATGCG
 GCGGAGTACCACGCCACCGTGCCTCCGAACCGCGCCCTCTCTGCAGTCTCCGCTGCGCGTCGGCC
 AGGCCTCGATGATTGCTAGTCCCTCAGGAGTCTCAAGCTGTCTGATTGGTCTTTTGAAGTCTCCTT
 CAGCCGTCTGACCGCCAGTCTCTGTGACTGGTTCCAGGGCCAGAACCAGTGCCTGTCTACAACCTCA
 CCGCGTCATTTTTAGCTGAAACTTTCTGTTACTGCCCAAGTCAGCCCTGGACTCTGGACCTGGG
 GCTGTGCTCCTCACCTACAGAGATGGCTTCAATGTCTCCATCACGTACAACCTCAAGTCTGGGTCTGGA
 GCCCGTAGCCCTCTGACAGTGTACGCTGCTGAAGTTCTAGGGTGGAGCTGCCCTGTCAATTTGCCCA
 GGAGTGGGACCCCTTCTTTGCTCATTGCCAAGTGGACTCCTCTGGAGGAGTCTGAGCTCCCGTGG
 CTGAAAGAGTGGCAATTTACCTTACCTTGAGGCTGTGGTCTGGCAGAGCTGGGACCTACACCTG
 TAGCATCCATCTGCAGGGACAGCAGTCAATGCCACTGTCAGTTGGCGGTCATCACAGTACTCCAAA
 TCCTTCGGGTACCTGGCTCCCGGGGAAGCTGTTGTGAGGTAACCCCGCATCTGAAAGGAAAGAT
 TTGTGTGGCGTCCCTGAACAATCTGTCCAGGAGTTGCCCGGCCCTGTGCTGGAGATTCAGGAGGCCAG
 GCTCCTTGCTGAGCGATGGCAGTGTGAGTGTACGAGGGCCAGAGGCTTCTTGGAGCGACAGTGTACGCC
 GCAGAGTCTAGCTCAGGCGCCACAGTGTAGGAGAATCTCAGGTGACCTTAAAGGAGGCCATCTCGTTC
 TCGTTCTCATCTTGGTGCCTCTCCCTGTTCTTTTGGTGGCCGGGCTTTGGCTTCTACTGGTGGAG
 AAAACAGTTGCTACTGAGAAGATTTTCTGCCTTAGAACATGGGATTACAGCATTTCGGCTCAGAGGAAG
 ATAGAGGAGCTGGAGCGAGAAGTGGAGACGGAGATGGGACAGGAGCCGGAGCCCGAGCCGGAGCCACAGC
 TGGAGCCAGAGCCAGGCAGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1601_f05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008479

Insert Size: 3 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC120591](#), [AAI20592](#)

RefSeq Size: 2020 bp

RefSeq ORF: 1566 bp

Locus ID: 16768

UniProt ID: [Q61790](#)

Cytogenetics: 6 F2

Gene Summary: Lymphocyte activation gene 3 protein: Inhibitory receptor on antigen activated T-cells (PubMed:12209638, PubMed:12421911, PubMed:12672063, PubMed:15100286, PubMed:15634887, PubMed:30580966). Delivers inhibitory signals upon binding to ligands, such as FGL1 (PubMed:30580966). FGL1 constitutes a major ligand of LAG3 and is responsible for LAG3 T-cell inhibitory function (PubMed:30580966). Following TCR engagement, LAG3 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation (PubMed:12209638, PubMed:12421911, PubMed:12672063, PubMed:15100286, PubMed:15634887). May inhibit antigen-specific T-cell activation in synergy with PDCD1/PD-1, possibly by acting as a coreceptor for PDCD1/PD-1 (PubMed:21300912). Negatively regulates the proliferation, activation, effector function and homeostasis of both CD8(+) and CD4(+) T-cells (PubMed:12209638, PubMed:12421911, PubMed:12672063, PubMed:15100286, PubMed:15634887). Also mediates immune tolerance: constitutively expressed on a subset of regulatory T-cells (Tregs) and contributes to their suppressive function (PubMed:15485628). Also acts as a negative regulator of plasmacytoid dendritic cell (pDCs) activation (PubMed:19201841). Binds MHC class II (MHC-II); the precise role of MHC-II-binding is however unclear (PubMed:12209638, PubMed:12421911, PubMed:15634887). [UniProtKB/Swiss-Prot Function]