

Product datasheet for **MR222979**

Lag3 (NM_008479) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lag3 (NM_008479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222979 representing NM_008479
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGAGGACCTGCTCCTTGGCTTTTTGCTTCTGGACTGCTTGGGAAGCTCCAGTTGTGTCTTCAG
 GGCTGGGAAAGAGCTCCCGTGGTGTGGGCCAGGAGGAGCTCCCGTCCATCTCCCTGCAGCCTCAA
 ATCCCCAACCTGGATCCTAACTTTCTACGAAGAGGAGGGTTATCTGGCAACATCAACCAGACAGTGGC
 CAACCCACTCCCATCCCGGCCCTTGACCTTACCAGGGGATGCCCTCGCCTAGACAACCCGACCCGGTC
 GCTACACGGTGTGAGCGTGGCTCCAGGAGGCCTGCGCAGCGGGAGGCAGCCCTGCATCCCACGTGCA
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 GGGGAGTACCACGCCACCGTGCCTCCGAACCGCGCCCTCTCTGCAGTCTCCGCTGCGCGTCGGCC
 AGGCCTCGATGATTGCTAGTCCCTCAGGAGTCTCAAGCTGTCTGATTGGGTCTTTTGAAGTGTCTCT
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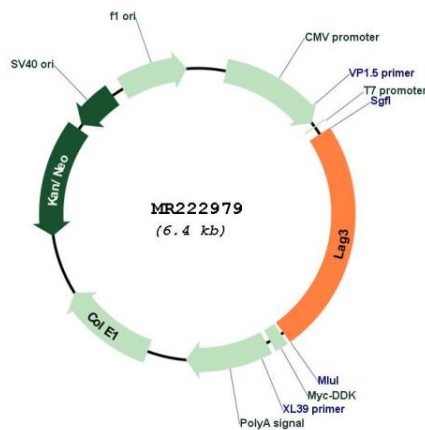
Restriction Sites:

Sgfl-Mlul

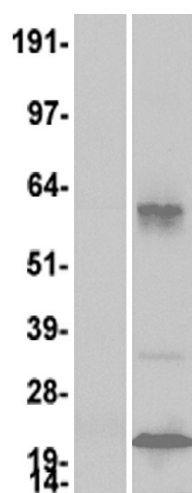
MW: 57.4 kDa

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]

Product images:



Circular map for MR222979



Western blot validation of overexpressed Lag3 protein using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with MR222979 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).