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Product datasheet for MR210239

Sec14l1 (NM_001166507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Sec14l1
Synonyms:	1200017E04Rik; 2810012L19Rik; Naa-35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210239 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCAAAAATACCAGTCCCCAGTGCGGGTGTATAAACATCCCTTTGAGTTAATTATGGCTGCCTATG
AGAGGAGGTTTCCTACATGTCCTCTGATTCCAATGTTCGTGGACAGTGACACTGTGAGCGAGTTCAAGAG
TGAGGATGGGGCTCTTCATGTCATCGAGAGGCGCTGCAAGCTGGATATAGATGCGCCCAGGCTGTTGAAG
AAGATCGCAGGAGTCGATTACGTTTATTTTGTCCAGAAAAACTCCCTGAATTCTCGAGATCGCACTTTGC
ACATCGAGGCCCACAATGAGACATTTTCTAACCGGGTCATCATCCACGAACACTGCTGTTACACGGTTCA
CCCTGAGAATGAAGACTGGACCTGTTTCGAACAGTCTGCAAGTTTAGATATCAAATCCTTCTTTGGTTTT
GAAAGTACAGTGGAAAAAATTGCCATGAAACATTATACAAGCAACATTAAAAAAGGGAAGGAGATCATTG
AATACTACCTACGGCAGCTGGAGGAGGAAGGCATCACCTTCGTGCCCCGCTGGACCCCACCCCCCGTGGG
ACCCTCAGAAACATGTTCATCAAGCAAGAATCAAGTCACATCTGCAGCTGTCCTTGTCCCAGATGCTGCT
GCCGTCATGGAGGGGCTGAGTGGGGAAAACCTCAGTAGTCCAGGAACAGCGTCTGAGCCCGTGGTGGGAA
CCCCTGACGATAAATTAGATGCCGACTACATCAAGAGATACTTGGGTGACCTGACTCCCCTCCAAGAGAG
CTGCCTCATTCGACTGCGCCAGTGGCTCCAGGAGACACACAAGGGCAAGATCCCAAAGGACGAGCATATC
CTTCGGTTCCTGCGTGCCCGGGATTTTAATATTGACAAGGCCAGAGAGATCATGTGCCAGTCTCTAACCT
GGCGGAAGCAGCACCAGGTGGATTACATCCTGGACACTTGGACTCCGCCCCAGGTCCTTCTGGACTACTA
CGCTGGGGGCTGGCATCACCATGACAAAGATGGACGGCCGCTGTATGTGCTTAGGCTGGGCCAGATGGAC
ACCAAAGGCTTGGTGCGAGCTCTCGGAGAGGAGGCCCTACTGCGATACGTTCTTTCCATAAACGAAGAAG
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CCTTGAAGGACTGAACATGCGCCATCTATGGAGACCAGGGGTCAAAGCCTTGCTGCGCATCATCGAGGTG
GTGGAGGCCAACTACCCGGAGACGCTGGGCCGCCTCCTCATCCTCCGAGCCCCCAGGGTCTTCCCTGTCC
TCTGGACGCTGGTTAGTCCATTTATTGATGACAACACCAGAAGGAAGTTCCTCATTTATGCAGGAAATGA
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GATTCTCATTCAGATTGTGGACGCCTCCTCAGTGATCACCTGGGATTTTGATGTGTGCAAAGGGGACATC
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TTCTACATCCTACAGTGGAAATTCCACACCATGCCAGCATGTGCTGCCACCAACCTACCCCGAGTGGACG
ACGTGCTGGCCTCCCTGCAGGTCTCCTCCCACAAGTGCAAAGTCATGTACTACACAGAAGTGATCGGCTC
TGAAGATTTCAGAGGCTCCATGACCAGCCTGGAATCTAGCCACAGCGGGTTCTCACAGCTCAGTGCCGCC
ACCACCTCCTCCAGCCAGTCGCAATCCAGCTCCATGATTTCCAGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210239 protein sequence
Red=Cloning site Green=Tags(s)

MVQKYQSPVRVYKHPFELIMAAYERRFPTCPLIPMFVDSDTVSEFKSEDGALHVIERRCKLDIDAPRLLK
KIAGVDYVYFVQKNSLNSRDRTLHIEAHNETFSNRVIIHEHCCYTVHPENEDWTCFEQSASLDIKSFFGF
ESTVEKIAMKHYTSNIKKGKEIIEYYLRQLEEEGITFVPRWTPPPVGPSETCSSSKNQVTSAAVLVPDAA
AVMEGLSGENLSSPGTASEPVVGTPDDKLDADYIKRYLGDLTPLQESCLIRLRQWLQETHKGKIPKDEHI
LRFLRARDFNIDKAREIMCQSLTWRKQHQVDYILDTWTPPQVLLDYYAGGWHHHDKDGRPLYVLRLGQMD
TKGLVRALGEEALLRYVLSINEEGLRRCEENTKVFGRPISSWTCLVDLEGLNMRHLWRPGVKALLRIIEV
VEANYPETLGRLLILRAPRVFPVLWTLVSPFIDDNTRRKFLIYAGNDYQGPGGLLDYIDKEIIPDFLSGE
CMCDVPEGGLVPKSLYRTAEELENEDLKLWTETIYQSASVFKGAPHEILIQIVDASSVITWDFDVCKGDI
VFNIYHSKRSPQPPKKDSLGAHSITSPGGNNVQLIDKVWQLGRDYSMVESPLICKEGESVQGSHVTRWPG
FYILQWKFHTMPACAATNLPRVDDVLASLQVSSHKCKVMYYTEVIGSEDFRGSMTSLESSHSGFSQLSAA
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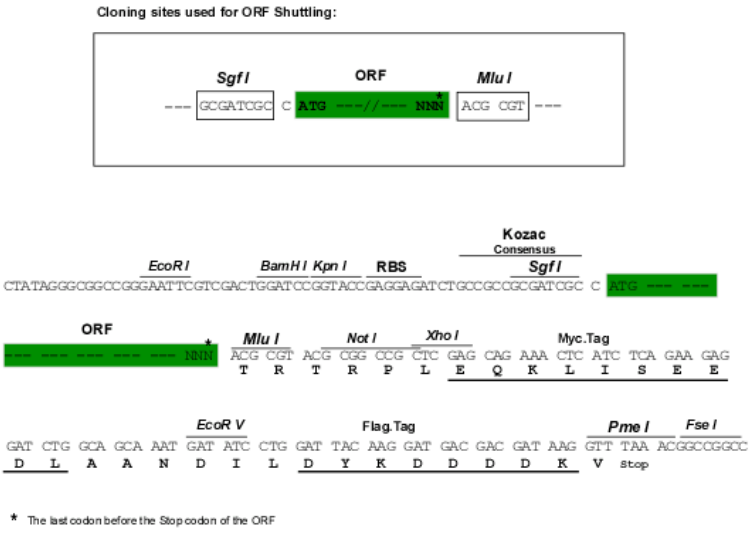
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166507

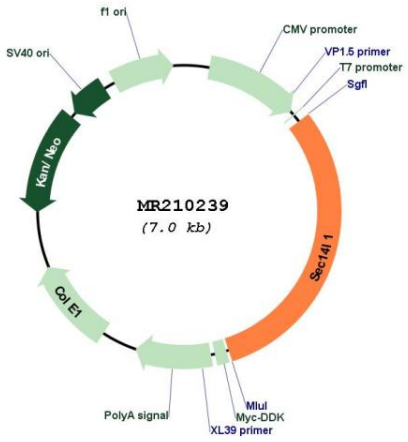
ORF Size: 2148 bp

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:	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_001166507.1, NP_001159979.1
RefSeq Size:	4380 bp
RefSeq ORF:	2151 bp
Locus ID:	74136
UniProt ID:	A8Y5H7
Cytogenetics:	11 E2
MW:	81.3 kDa
Gene Summary:	May play a role in innate immunity by inhibiting the antiviral RIG-I signaling pathway. In this pathway, functions as a negative regulator of DDX58/RIG-I, the cytoplasmic sensor of viral nucleic acids. Prevents the interaction of DDX58 with MAVS/IPS1, an important step in signal propagation. May also regulate the SLC18A3 and SLC5A7 cholinergic transporters. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210239