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Product datasheet for MR206419

Sigirr (NM_023059) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sigirr (NM_023059) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sigirr
Synonyms:	AI256711; TIR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206419 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGTGTCTGTGACATGGCCCCTAATTTCCTTTCCCCATCTGAAGACCAGGCCTTGGGTCTTGCCC
TTGGCAGAGAAGTTGCTTTGAATTGCACAGCTTGGGTGTTCTCTAGGCCCCAGTGTCCCCAGCCATCAGT
GCAGTGGCTGAAAGATGGTCTGGCATTGGGCAATGGAAGCCACTTCAGCCTCCATGAGGACTTCTGGGTC
AGCGCCAACTTCTCAGAGATTGTGTCCAGTGTCCTGGTGCTCAACTTGACCAATGCAGAGGACTATGGAA
CCTTCACCTGTTCTGTCTGGAATGTCAGCTCCCATTCCTTCACTCTTTGGCGAGCTGGCCCTGCTGGCCA
TGTGGCTGCAGTACTGGCTTCCCTCCTGGTCCTGGTGGTTCTGCTGCTGGTGGCCCTGCTCTATGTTAAG
TGTCGGCTGAACATGCTGCTTTGGTACCAAGACACTTACGGGGAGGTGGAGATGAACGATGGGAAGTTAT
ACGATGCCTACGTGTCCTATAGCGACTGCCCAGAGGACCGCAAATTTGTAAATTTTATTCTGAAGCCTCA
GTTGGAGCGGCGTCGGGGATACAAACTCTTCCTAGAGGACCGCGACCTCTTGCCTCGCGCGGAGCCCTCT
GCCGACCTTTTGGTGAACCTGAGTCGCTGTCGGCGTCTCATCGTGGTTCTTTCAGATGCCTTCCTAAGCC
GGCCCTGGTGTAGCCAGAGCTTCCGGGAGGGACTGTGCCGCCTACTGGAGCTCACCCGCAGACCTATCTT
CATCACCTTTGAGGGCCAGAGGCGTGAGCCCATACACCCTGCTCTCCGGCTCCTGCGCCAGCACCGCCAC
CTCGTGACCCTGGTGCTTTGGAAGCCTGGCTCCGTGACTCCTTCCTCTGATTTTTGGAAAGAGCTACAGC
TAGCACTGCCACGGAAGGTGCAGTACAGGCCGGTGGAGGGAGACCCTCAAACCCGACTTCAGGATGACAA
AGATCCCATGCTAATCGTGAGAGGACGTGCTGCCCAGGGCCGGGGCATGGAGTCAGAGCTGGATCCAGAC
CCTGAGGGAGACCTGGGTGTCCGTGGACCTGTCTTTGGGGAGCCACCAACTCCACTGCAGGAAACCAGGA
TCTGCATAGGAGAGAGCCACGGCAGTGAAATGGATGTCTCTGACCTCGGCTCTCGAAACTACAGTGCACG
GACAGACTTCTACTGCCTCGTGTCTGAGGATGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

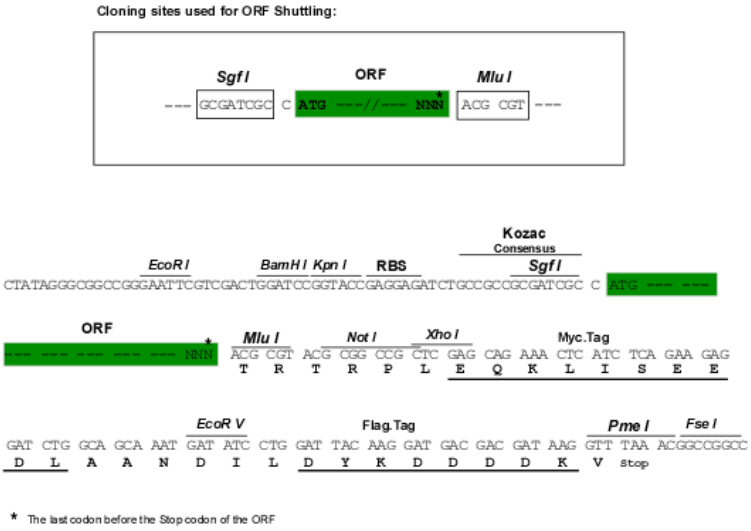
>MR206419 protein sequence
Red=Cloning site Green=Tags(s)

MAGVCDMAPNFLSPSEDQALGLALGREVALNCTAWVFSRPQCPQPSVQWLKDGLALGNGSHFSLHEDFWV
SANFSEIVSSVLVLNLTNAEDYGTFTCSVWNVSSHSFTLWRAGPAGHVAAVLASLLVLVVLLLVALLYVK
CRLNMLLWYQDTYGEVEMNDGKLYDAYVSYSDCPEDRKFVNFILKPQLERRRGYKLFLEDRDLLPRAEPS
ADLLVNLSRCRRLIVVLSDAFLSRPWCSQSFREGLCRLLELTRRPIFITFEGQRREPIHPALRLLRQHRH
LVTLVLWKPGSVTPSSDFWKELQLALPRKVQYRPVEGDPQTRLQDDKDPMLIVRGRAAQGRGMESELDPD
PEGDLGVRGPVFGEPPTPLQETRICIGESHGSEMDVSDLGSRNYSARTDFYCLVSEDDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023059

ORF Size: 1230 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.

RefSeq: NM_023059.3

RefSeq Size: 1990 bp

RefSeq ORF: 1230 bp

Locus ID: 24058

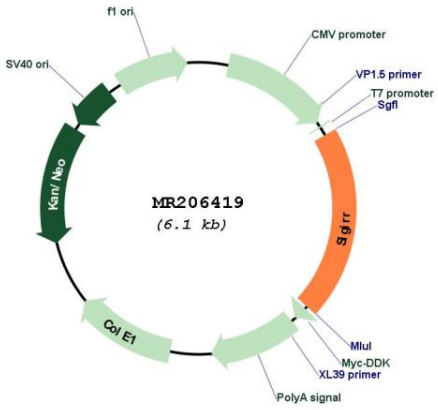
UniProt ID: Q9JLZ8

Cytogenetics: 7 F5

MW: 46.2 kDa

Gene Summary: Acts as a negative regulator of the Toll-like and IL-1R receptor signaling pathways. Attenuates the recruitment of receptor-proximal signaling components to the TLR4 receptor, probably through an TIR-TIR domain interaction with TLR4. Through its extracellular domain interferes with the heterodimerization of Il1R1 and IL1RAP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206419