

Product datasheet for RC201356

SIGIRR (NM_021805) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGIRR (NM_021805) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIGIRR
Synonyms:	IL-1R8; TIR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201356 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGGTGTCTGTGATAGGGCCCTGACTTCCTCTCCCGTCTGAAGACCAGGTGCTGAGGCCTGCCT
TGGGCAGCTCAGTGGCTCTGAAGTGCACGGCTTGGGTAGTCTCTGGGCCCACTGCTCCCTGCCTCAGT
CCAGTGGCTGAAAGACGGGCTTCCATTGGGAATTGGGGCCACTACAGCCTCCACGAGTACTCCTGGGTC
AAGGCCAACCTGTCAGAGGTGCTTGTGTCCAGTGTCTGGGGTCAACGTGACCAGCACTGAAGTCTATG
GGCCTTACCTGCTCCATCCAGAACATCAGCTTCTCCTCCTTCACTCTTCAAGAGCTGGCCCTACAAG
CCAGTGGCTGCGGTGCTGGCCTCCCTCCTGGTCTGCTGGCCCTGCTGCTGGCCGCCCTGCTCTATGTC
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TCTACGACGCTACGTCTCTACAGCGACTGCCCGAGGACCGCAAGTTCGTGAACCTTATCCTAAAGCC
GCAGCTGGAGCGGCTCGGGCTACAAGCTTCTCTGGACGACCGGACCTCCTGCCGCGCTGAGCCC
TCCGCGACCTCTTGGTGAACCTGAGCCGCTGCCGACGCTCATCGTGGTGTCTTTCGACGCTTCTCTGA
GCCGGCTGGTGCAGCCACAGCTTCCGGGAGGGCTGTGCCGGTGTGGAGCTACCCGACAGCCAT
CTTCATCACCTTCGAGGGCCAGAGGCGCACCCCGCGCACCCGGCGCTCCGCTGCTGCCAGCACCCGC
CACCTGGTGACCTTGTCTCTGGAGGCCGGCTCCGTGACTCCTTCTCCGATTTTGGAAAGAAGTGC
AGCTGGCGCTGCCGCGGAAGGTGCGGTACAGCCGGTGAAGGAGACCCAGACGAGCTGCAGGACGA
CAAGGACCCATGCTGATTCTTCAGGGCAGTCCCTGAGGGCCGGCCCTGGACTCAGAGGTGGACCCG
GACCTGAGGGGACCTGGGTGTCCGGGGCTGTTTTGGAGAGCCATCAGCTCCACCGCACACAGTGC
GGGTCTCGCTGGGAGAGACCGGAGCAGCGAAGTGGAGTCTCGGATCTCGGCTCGGAAACTACAGTGC
CCGCACAGACTTCTACTGCTGTGTCGAAGGATGATG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201356 protein sequence
Red=Cloning site Green=Tags(s)

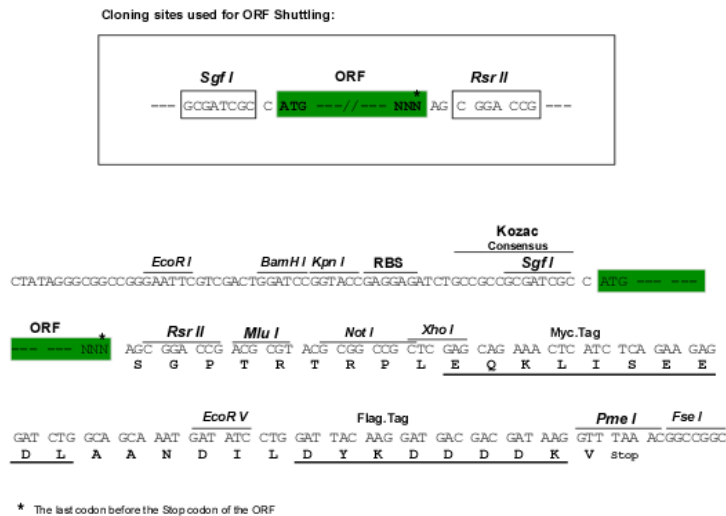
MPGVCDRAPDFLSPSEDQVLRPALGSSVALNCTAWVVSOPHCPSVQWLKDGLPLGIGGHYSLHEYSWV
 KANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNISSFTLQRAGPTSHVAVLASLLVLLALLLAALLYV
 KCRLNVLWYQDAYGEVEINDGKLYDAYVSYSDCPEDRKFVNFILKPQLERRRGYKFLDDDRLLPRAEP
 SADLLVNL SRCRLIVLSDAFLSRAWCSHSFREGLCRLELTRRPIFITFEGQRRDPAHPALRLLRQHR
 HLVTLLLWRPGSVTPSSDFWKEVQLALPRKVRYPVEGDPQTQLQDDKDPMLILGRVPEGRALDSEVDP
 DPEGDLGVRGPVFGEPSAPPHTSGVSLGESRSSEVDVSDLGSRNYSARTDFYCLVSKDDM

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6190_d06.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_021805

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021805.1](#), [NP_068577.1](#)

RefSeq Size: 1657 bp

RefSeq ORF: 1233 bp

Locus ID: 59307

UniProt ID: [Q6IA17](#)

Cytogenetics: 11p15.5

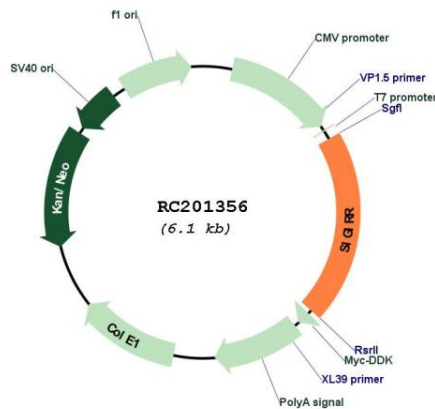
Domains: TIR

Protein Families: Transcription Factors, Transmembrane

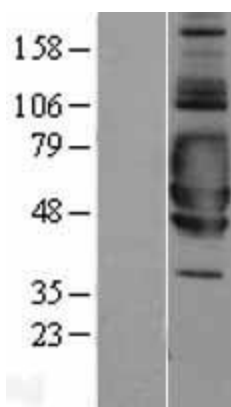
MW: 45.7 kDa

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.[UniProtKB/Swiss-Prot Function]

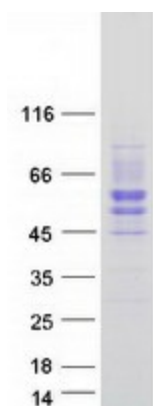
Product images:



Circular map for RC201356



Western blot validation of overexpression lysate (Cat# [LY427541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225643] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIGIRR protein (Cat# [TP301356]). The protein was produced from HEK293T cells transfected with SIGIRR cDNA clone (Cat# RC201356) using MegaTran 2.0 (Cat# [TT210002]).