

Product datasheet for **MR209867**

5730559C18Rik (NM_028872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5730559C18Rik (NM_028872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	5730559C18Rik
Synonyms:	1700034M08Rik; 4933426C09Rik; AI586180; D1Mgi54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209867 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCAAATGCCGAAGTTAAATGAAATACCTCCGGGAGGGGAGGCCCGGGGAGCCTTGGGGAGAGG
GAAGATGGGCGGGACCAACAGGTCTGAAGCTGCGCGACCGCGCGGGGGCGCGGGGGCAGGCGCGAGG
CGCCAGAGCTCGGTGGGACAGCTGGGAACACTCCAGACTACCTACACATCCTGGCCAGGCTGGGACCAG
TGCAGCCCTCCTTCTGTGCCCCCTTCCAGAACTCATCATGGAGAGTAAGGATGAAGTCACTG
ACTCCGACAGCGGCATCATCCTGCAGTCTGGCCCGACAGCCCTGTCTCTCCAATGAAAGAGCTGACCAA
TGCAGTACGAAGCAGCAGAGGGCTCTGGAAGCGAGGCTGGAGGCCTGCCTGGAGGAGCTGCGCAGACTC
TGCTGAGGGAGGCGGAGCTGACTGGGACTTTGCCGCGAGATATCCCTTAAGCCTGGTGAAGAAGGCC
CCAAGTCCGGCGCAGGATCGGAGCAGCGTACAAGCTGGATGAGTGGCCCTCCACAGAGAGGACCCCT
GAGCAGCTAGAGCGCCAGTTGGCTCTGCAGTTCAGATCACCGAGGCGGCTCGAAGGCTGTGTGCAGAG
GAGAACCTCAGCAGACAGGCACGCAGGCAGCGGAAGCACGCTGCGCTGCAGGAGGAGAAGAAGCTGCGGG
ACCTTCAGCGTTGCCTGGGTGATCGGCGCGGAACAGTGAGCCCCCTCTACCACTGTGCCCTCCCTGGG
CAGAGAACTCAGTGCCTCTGACGACAGCTCCCTGTCTGATGGGCTGCTCCTGGAGGAAGAAGACTCCCAA
GCGCCAAAACCTCCCCAGAGTACCGGCACCCTTCGCGGCCCTCTCCACCCAGAGCCTTGAGGGCC
TACAGCCAAACAGGACCTGAGTCTGGCGGCCAGGAACGGGCTCCCATCCAAAACAGTCCCTGGAAGGAGAC
CAGCCTGGACCACCCCTATGAGAAGCCAGGAAGTCTTCTGAGCTCAGTAGCGAGTCCAGCAGCCCGGCC
ACCACTCCTCAGGACCAGCCAAACCCTTCCAGCCTGTGGGTGCTGGATGCTGCCTTTACCACGTGGTCC
CCATCCGAAATGTTCCCGGCCAGCGTCAGGGCCGACCAAGTCCCCAGCCACCCCTGAGATGCAGGGCAG
GAGGGGCCAGTCACAGTCTCTGAGGGTGGACTCCTTCCGAGCAGGCGCGGAGGGCCGAGGTCGCAAGTGC
TTTCCCGCCGCGCCCACTCATTACACAGTGACAGTGCCAGACTCCTGCTTACACCCGGCAAGCCCC
CACTGCCACACCTGCCTGCCATTCTGCTCTGAAGACAGTGGCTCTGATGTCTCCAGCATCTCCCATCC
CACCTCACCTGGCAGCAGCAGTCCAGACATCTCCTTTCTGAGGCCCTCTGTCTCCCTGAGCCACCTCGC
CACCGTGGGGCTGGGGCCAGCCTGTGGCAGAGAGCTGGCCCTCATTACTCTAAACTTCTGCTACCCG
CTGGATACTTCCAAACGGGGCGCTATGTGATGGTGGCCGAGGGCCACCTGCCCGGGGCGAGTGGGAGCT
GTGTCGTGCAGCCGTGGGTGCTGCCTATGACGAGGAAGGTGACCCCTGCGTTACCAGCGACTGGTACCC
TCCACAGCCGATTGTGCGCACACCCTCACTAAAGGACAGTCTGCGGGCCGGGACTCAGCAAGGCAG
CAGTCTCGGAGGAGCTCAAGTGGTGGCATGAACGCGCACGTCTCCGGAGCAGCCGCCCCACTCGCTCGA
CCGCCAAGGGGCGTTCCGTGTTAGGAGTCTGCCTCCTGGGAGGGAGAGCTTCGGGCGGGCCTCAGGACCC
AGGACACAGGTGCCCCCGTGTACGTACTCCGGAGGTCGACGGACGGGGCCCAAGTGAAGTCTTTGTGC
CTGAGAACGGAGAGATTATCAGCCAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209867 protein sequence
Red=Cloning site Green=Tags(s)

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MLQMPKLNIEIPPGRGGPGEWEGRWAGPTGPEAARPARGARGQARGARARWDSWEHSRLPTHPGPGWDQ
CSPSFLCAPSSQKLIMESKDEVSDDSGIILQSGPDSPVSPMKELTNAVRKQQRALREARLEACLEELRRL
CLREAELTGTLPAEYPLKPGEKAPKVRRIIGAAAYKLDEWALHREDPLSSLERQLALQLQITEARRLCAE
ENLSRQARRQRKHAALQEEKLRDLQRCLGDRRRNSEPPPTTVP SLGRELSASDDSSLSDGLLEEDSQ
APKPPPEPAPPSPRPLPPQSLEGLQPTGPESGGQERAPIQNSPWKETSLDHPYEKPRKSSELSESSSPA
TTPQDQPNPSSLWVLDAAASYHVVPVIRNVPGQRQGRTSAPATPEMQGRRGQSQSLRVDSFRAGAEGRGRSA
FRRRRPTHYTVTPDSCFTPGKPLPHPACHSCSEDSGSDVSSI SHPTSPGSSSPDISFLRPLCLPEPPR
HRGAWGPACRELAPHYSKLLL PAGYFPTGRYVMVAEGHLPPEWELCRAAVGAA YDEEGAPLRYQLVLP
SHSRIVRTPSLKDSPAGRGLSKAAVSEELKWWHERARLRSSRPHSLDRQGAFVRVSLPPGRESFGRASGP
RTQVPPVYVLRSTDGAPVQVFPENGEIISQV
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_028872

ORF Size: 1992 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_028872.3](#), [NP_083148.3](#)

RefSeq Size: 3013 bp

RefSeq ORF: 2034 bp

Locus ID: 67313

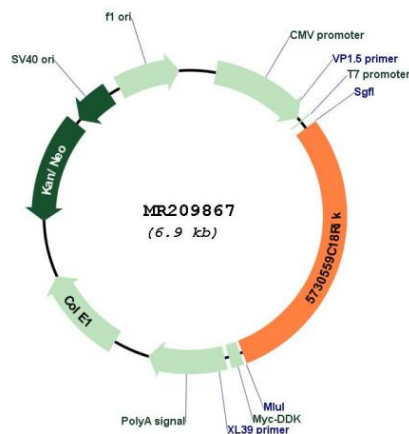
UniProt ID: [Q7TN12](#)

Cytogenetics: 1

MW: 72.7 kDa

Gene Summary: Expressed in peripheral macrophages and intestinal myeloid-derived cells, is required for optimal PRR (pattern recognition receptor)-induced signaling, cytokine secretion, and bacterial clearance. Upon stimulation of a broad range of PRRs (pattern recognition receptor) such as NOD2 or TLR2, TLR3, TLR4, TLR5, TLR7 and TLR9, associates with YWHAQ/14-3-3T, which in turn leads to the recruitment and activation of MAP kinases and NF-kappa-B signaling complexes that amplifies PRR-induced downstream signals and cytokine secretion (By similarity). In the intestine, regulates adherens junction stability by regulating the degradation of CYTH1 and CYTH2, probably acting as substrate cofactor for SCF E3 ubiquitin-protein ligase complexes. Stabilizes adherens junctions by limiting CYTH1-dependent ARF6 activation (PubMed:29420262).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209867