

Product datasheet for **MC220258**

5730559C18Rik (NM_028872) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC220258 representing NM_028872
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCCAGGGGACAGATGTCTTGGGATCTTTAACATTTGGGATGCTGCAAATGCCGAAGTTAAATGAAA
 TACCTCCGGGGAGGGGAGGCCCGGGGGAGCCTTGGGGAGAGGGAAGATGGGCGGGACCAACAGGTCTGA
 AGCTGCGCGACCCGGCGGGGGGCGGGGGCAGGCGCGAGGCGCCAGAGCTCGGTGGGACAGCTGGGAA
 CACTCCAGACTACCTACACATCCTGGCCAGGCTGGGACCAGTGCAGCCCTCCTTCTCTGTGCCCCCT
 CTTCCAGAACTCATCATGGAGAGTAAGGATGAAGTCAAGTCACTCCGACAGCGGCATCATCTGCAGTC
 TGGCCCGACAGCCCTGTCTCTCAATGAAAGAGCTGACCAATGCAGTACGCAAGCAGCAGAGGGCTCTG
 GAAGCGAGGCTGGAGGCCTGCCTGGAGGAGCTGCGCAGACTCTGCCTGAGGGAGGCGGAGCTGACTGGGA
 CTTTGCCGGCAGAGTATCCCTTAAGCCTGGTGAAGGCCCCCAAGTCCGGCGCAGGATCGGAGCAGC
 GTACAAGCTGGATGAGTGGGCCCTCCACAGAGAGGACCCCTGAGCAGCCTAGAGCGCCAGTTGGCTCTG
 CAGCTTACAGTACCCGAGGCGGCTCGAAGGCTGTGTGCAGAGGAGAACCTCAGCAGACAGGCACGCAGGC
 AGCGGAAGCACGCTGCGCTGCAGGAGGAGAAGAAGCTGCGGGACCTTCAGCGTTGCCTGGGTGATCGGCG
 GCGGAACAGTGAGCCCCCTCTACCACTGTGCCCTCCCTGGGCGAGAGAACTCAGTGCCTCTGACGACAGC
 TCCCTGTCTGATGGGCTGCTCCTGGAGGAAGAAGACTCCCAAGCGCCAAAACCTCCCCAGAGTACCCGG
 CACCACCTTCGCGGCTCTCCACCCAGAGCCTTGAGGGCTACAGCCAACAGGACCTGAGTCTGGCGG
 CCAGGAACGGGCTCCCATCCAAAACAGTCCCTGGAAGGAGACCAGCCTGGACCACCCTATGAGAAGCCC
 AGGAAGTCTTCTGAGCTCAGTAGCGAGTCCAGCAGCCCGGCCACCACTCCTCAGGACCAGCCCAACCTT
 CCAGCCTGTGGGTGCTGGATGCTGCCTTTACCACGTGGTCCCATCCGAAATGTTCCCGGCCAGCGTCA
 GGGCCGACACAGTGCCTCAGCCACCCCTGAGATGCAGGGCAGGAGGGGCCAGTACAGTCTCTGAGGGTG
 GACTCCTTCCGAGCAGGCGGGAGGGCCGAGGTGCGAGTGCCTTTCCCGCCGCCGCCCACTCATTACA
 CAGTGACAGTGCCAGACTCCTGCTTACACCCGGCAAGCCCCACTGCCACACCCTGCCTGCCATTCTCTG
 CTCTGAAGACAGTGGCTCTGATGTCTCCAGCATCTCCATCCACCTCACCTGGCAGCAGCAGTCCAGAC
 ATCTCCTTTCTGAGGCCCTCTGTCTCCCTGAGCCACCTCGCCACCGTGGGGCTGGGGCCAGCCTGTG
 GCAGAGAGCTGGCCCTCATTACTCTAACTTCTGCTACCCGCTGGATACTTCCCAACGGGGCGCTATGT
 GATGGTGGCCGAGGGCCACTGCCCGGGGCGAGTGGGAGCTGTGTCGTGCAGCCGTGGGTGCTGCCTAT
 GACGAGGAAGGTGCACCCCTGCGTTACCAGCGACTGGTACCCTCCACAGCCGCAATTGTGCGCACACCT
 CACTAAAGGACAGTCTCGGGGCGGGGACTCAGCAAGGACAGCAGTCTCGGAGGAGCTCAAGTGGTGGCA
 TGAACGCGCACGTCTCCGGAGCAGCCGCCCACTCGCTCGACCGCCAAGGGGCGTTCCGTGTTAGGAGT
 CTGCCTCTGGGAGGGAGAGCTTCGGGCGGGCCTCAGGACCCAGGACACAGGTGCCCCCCGTGTACGTAC
 TCCGGAGGTGACGCGAGGGGCCCAAGTCAAGTCTTTGTGCCTGAGAACGGAGAGATTATCAGCCAAGT
GTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_028872
Insert Size: 2034 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>NM_028872.3</u> , <u>NP_083148.3</u>
RefSeq Size:	3013 bp
RefSeq ORF:	2034 bp
Locus ID:	67313
UniProt ID:	<u>Q7TN12</u>
Cytogenetics:	1
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]