

Product datasheet for **MC224357**

Mst1r (NM_009074) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mst1r (NM_009074) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mst1r
Synonyms:	CD136; CDw136; Fv; Fv-; Fv-2; Fv2; PTK; PTK8; Ron; ST; STK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224357 representing NM_009074 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGCCTCTGCCGCTGCTTCAATCCTCTCTTCTGCTAATGCTTCTTTGCGGCTGTGGCGGCGT
CCACCAACCTGAACTGGCAGTGGCCACGAATACCTACGCAGCCTCCCGAGACTTCAGTGTCAAGTACGT
GGTCCCCAGCTTCTCCGCGGGGGCCGGGTACAGGCCACCGCAGCCTACGAGGACAGTACAATAGTGCG
GTGTTTGTGGCCACACGCAATCACCTGCACGTGCTTGGGCTGACCTGCAGTTCATAGAGAACCTGACCA
CTGGCCCTATCGGGAACCTGGTGCAGACTTGTGCGAGCTGTGGTCCAGGCCCTCATGGACCACCAAA
GGACACAGACACTGGTGTAGTGATGGAGCCAGGTTTCCAGCCCTGGTCAAGCTGTGGCTCAACCCTA
CAGGGCCGCTGCTTCTGCATGAGCTGGAGCCTCGGGGAAAGCCCTGCACTTAGCAGCTCCAGCCTGCC
TATTCTCAGAAACAATAACAAGCCTGAGGCTGCACGGACTGTGTGGCTAGCCCCCTGGGCACTCGTGT
GACTGTGGTGGAGCAGGGCATGCTTCTACTTCTATGTGGCATCTTCGCTAGACCCAGAGTTGGCCGCT
AGCTTTAGCCCCGCTCGGTGTCATCCGTCGTCTAAAGTCTGATACTTCTGGATTCCAACAGGTTTTTC
CGTCGCTGTCGGTGTGCCAAAATTTGGCCTCCTACCTCATCAATATGTGTACAGCTTCCACTCGGG
GGATTTTGTCTACTTTCTGACTGTCCAGCCCATCAGTGTCAAGCCCTCCAGTGCCTTGACATACAGT
CTGGTCCGGCTCAATGCTGTAGAGCCAGAGATTGGTACTACCGGGAGCTGGTCTTGACTGTCAATTTTG
CACCTAAACGCCGCGCGCTGGAGCCCCGGAGGGCACACAGCCCTACCCAGTGTTCAGGCAGCCCACTC
TGCTCCAGTGGATGCCAACTGGCTGTGGAAGTGAAGCATTTCAGAGGGCCAGGAAGTGTCTTTTGGGGT
TTTGTGACCGTCAAGGATGGTGGCTCTGGCATGGGTCCCAACTCTGTTGTATGTGCCTTCCCAATTTACC
ACCTGAACATCCTGATTGAAGAGGGTGTGCAATATTGCTGTCACTTCAAATTTCTTCCCTGTTGTG
GAGAGGCCTTGACTTCTCCAGACGCCAGTTTTTGTCTAATCCGCTGGTGGAGAGGCCCTCCGCCCC
AGCTCCGTTGCCACTACTTCCCTTTGATGGTCCACGCTAGCTTACCCGTGGACCTTCAATGGAC
TGTTAGGATCAGTGAAGTCAACGACTGCATGTGACAGCTTTGGCAATGTTACAGTGGCCACATGGG
CACTGTGGATGGCGTGTCTACAGGTGGAGATAGCCAGTCACTCAACTACCTGCTGTATGTGTCCAAC



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TTCTCCCTGGGCAGCAGTGGACAGCCTGTTCATCGGGATGTCAGCCGCCTCGGAATGACCTACTCTTTG
 CCTCTGGGGACCAGGTCTTCAAGGTGCCATCCAGGGCCCTGGCTGTCGTATTTTCTCACCTGTTGGCG
 TTGCTGAGAGCACAGCGCTTATGGGATGTGGCTGGTGTGGGGACCGGTGTGACCGGCAGAAGGAGTGT
 CCTGGCTCCTGGCAACAGGACCACTGTCCGCCTGAGATCAGTGAATCTATCCTCACAGCGGGCCTAA
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 AACACACAGATCACCGTGGGCCAAAATCCCTGCCGACTGCTGCCTAAGGACTCTTCAAGCCCTAGGCCA
 GGGTCCCTCAAGGAATTCATACAGGAATTGAATGTGAGCTGGAGCCCTGGTCACCCAGGCAGTGGGA
 CTACAAACATCAGCCTTGTATCACCAACATGCCAGCAGCAAGCACTTCCGAGTGGAAAGGCATCTCTGT
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 CCCAGTCCGGCTGGAACAGGTCAATGAGGAGCAGATCTTATGTGTACGCCTCCTGGAGCTGGCACGGC
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 TGCCCCACCCAGTCCACTCAGAGCTGGCTGGTTGAGTTGAAACCTGAAGAACATTCAGTTAAAGTTGA
 GTATGTCGGGCTGGGCGCTGTGGCAGACTGTGTGACTGTGAACATGACCGTGGTGGTGGTCTGCCAA
 CATGAGCTCCGGGGGATGTGGTGTCTGCCCCCTGCCCTTCCCTGCAACTTGGCAAGGATGGTGTCC
 CATTGCAGGTCTGTGTAGACGGTGGGTGTACATCCTGAGCCAAGTGGTTCGCTCAAGCCAGGCAGGGC
 CTCACAGAGGATACTCCTTATTGCTCTTCTGGTCTTGTATCCTGCTGTGGCTGTGCTGGCCGTTGCCCTG
 ATCTTTAACTCCGAAGACGGAAAAAGCAGCTAGGTGCTCACTCCCTCTCCCAACAACACTCTCTGACA
 TCAACGATACAGCTTCCGGGGCTCCGAACCATGAAGAATCGTCAGAGAGTAGGGATGGGACAAGTGTCCC
 ACTGCTGCGGACAGAGTCTATCCGGCTCCAGGATCTGGACAGGATGCTCCTAGCTGAGGTCAAGGATGTA
 CTGATTCCCATGAACAAGTGGTTCATCCATACTGACCAAGTCATTGGCAAAGGCCACTTTGGTGTGTCT
 ACCACGGAGAATATACAGACGGAGCACAGAATCAGACCCACTGTGCCATCAAGTCTCTGAGTCGATTAC
 AGAGGTGCAGGAGGTGGAGGCTTCTGCGGGAGGGGCTGCTCATGCGTGGCCTACATCACCCAAACATC
 CTGGCTCTCATCGGTATCATGCTGCCCCGGAGGGGCTTCCCCGGGTGCTGTTGCCCTATATGCGCCACG
 GAGACCTGCTTCAATTCATTGCTCCCCTCAGAGGAACCCCACTGTGAAGGATCTTGTGAGCTTTGGCT
 GCAGGTAGCCTGTGGTATGGAGTACCTGGCAGAGCAGAAGTTCGTGCACAGAGACCTGGCTGCTAGGAAC
 TGCATGCTGGACGAGTCATTACAGTCAAGGTGGCTGACTTTGGTCTGGCACGGGGCTCCTAGACAAGG
 AATACTACAGTGTTCGCCAGCATCGCCATGCTCGCCTGCCAGTCAATGGATGGCACTGGAGAGCCTGCA
 GACCTACAGGTTACCACCAAGTCCGATGTGTGGTCAATTCGGGGTGTGCTCTGGGAGCTACTAACACGG
 GGTGCTCCACCCTACCCCATATCGATCCCTTCGACCTCTCTCACTTCTCTGGCTCAGGGCCGCTCGCTGC
 CTCAGCCTGAGTACTGCTGATTCACTGTATCACGTGATGCTTCGATGCTGGGAGGCTGACCCAGCGGC
 ACGACCCACCTTCAGAGCCCTAGTGTGGAAGTAAAGCAGGTAGTGGCCTCACTGCTTGGGGACCACTAT
 GTGCAGCTGACAGCAGCTTATGTGAACGTAGGCCCCAGAGCGGTGGATGATGGGAGTGTGCTCCGGAGC
 AGGTACAGCCCTCGCCTCAGCATTGACAGGACAGTCAAAGCCCCGGCCTCTCTCAGAGCCACCCCTGCC
 CACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1857_f06.zip
Restriction Sites: Sgfl-Mlul
ACCN: NM_009074
Insert Size: 4137 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC141379](#), [AAI41380](#)

RefSeq Size: 4706 bp

RefSeq ORF: 4137 bp

Locus ID: 19882

UniProt ID: [Q62190](#)

Cytogenetics: 9 F1

Gene Summary:

This gene encodes a precursor protein that is proteolytically cleaved to yield an alpha chain and a beta chain which form a membrane-spanning heterodimer. The encoded protein belongs to a family of cell-surface receptor tyrosine kinases involved in signaling from the cell surface to the intracellular environment. The binding of the encoded protein to its ligand, macrophage-stimulating protein, mediates several biological activities including wound healing, tumor immunity, macrophage activation and hematopoiesis as well as cell growth, motility, survival and adhesion. The protein encoded by this gene also functions in early development and the macrophage-mediated inflammatory response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Transcript Variant: This variant (1) encodes the longer isoform (1, also known as full-length Ron or FL-Ron). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.