

Product datasheet for **MR230107**

Mst1r (NM_001287261) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mst1r (NM_001287261) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mst1r
Synonyms:	CD136; CDw136; Fv; Fv-; Fv-2; Fv2; PTK; PTK8; Ron; ST; STK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230107 representing NM_001287261
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGTGGGTGGTGTGAGGTCTGCCAACATGAGCTCCGGGGGATGTGGTGATCTGCCCCCTGCCCCCTT
 CCCTGCAACTTGCAAGGATGGTGTCCATTGCAGGTCTGTGTAGACGGTGGGTGTACATCCTGAGCCA
 AGTGGTTCGCTCAAGCCAGGCAGGCGCTCACAGAGGATACTCCTTATTGCTCTTCTGGTCTTGATCCTG
 CTTGTGGCTGTGCTGGCCGTTGCCCTGATCTTTAACTCCCGAAGACGGAAAAAGCAGCTAGGTGCTCACT
 CCCTCTCCCCAACAACTCTCTGACATCAACGATACAGCTTCCGGGGCTCCGAACCATGAAGAATCGTC
 AGAGAGTAGGGATGGGACAAGTGTCCACTGCTGCGGACAGAGTCTATCCGGCTCCAGGATCTGGACAGG
 ATGCTCCTAGCTGAGGTCAAGGATGTACTGATCCCCATGAACAAGTGGTATCCATACTGACCAAGTCA
 TTGGCAAAGGCCACTTTGGTGTGTCTACCACGGAGAATATACAGACGGAGCACAGAATCAGACCCACTG
 TGCCATCAAGTCTCTGAGTCGCATTACAGAGGTGCAGGAGGTGGAGGCTTTCCTGCGGGAGGGGCTGCTC
 ATGCGTGGCCTACATACCCAAACATCCTGGCTCTCATCGGTATCATGCTGCCCCCGGAGGGGCTTCCCC
 GGGTGTGTTGCCCTATATGCGCCACGGAGACCTGCTTCAATTCATTGCTCCCCCTCAGAGGAACCCAC
 TGTGAAGGATCTTGTGAGCTTTGGCCTGCAGGTAGCCTGTGGTATGGAGTACCTGGCAGAGCAGAAGTTC
 GTGCACAGAGACCTGGCTGCTAGGAACTGCATGCTGGACGAGTCAATCACAGTCAAGGTGGCTGACTTTG
 GTCTGGCACGGGGCGTCTAGACAAGGAATACTACAGTGTTCGCCAGCATCGCCATGCTCGCCTGCCAGT
 CAAATGGATGGCACTGGAGAGCCTGCAGACCTACAGGTTACCACCAAGTCCGATGTGTGGTCAATCGGG
 GTGCTGCTCTGGGAGCTACTAACACGGGGTGTCCACCTACCCCATATCGATCCCTTCGACCTCTCTC
 ACTTCTGGCTCAGGGCCGTCGCTGCCTCAGCCTGAGTACTGCTGCTGATTCACTGTATCAGTGTGCT
 TCGATGCTGGGAGGCTGACCCAGCGGCACGCCACCTTCAGAGCCCTAGTGTGGAAGTAAAGCAGGTA
 GTGGCCTCACTGCTTGGGGACCCTATGTGCAGCTGACAGCAGCTTATGTGAACGTAGGCCCCAGAGCGG
 TGGATGATGGGAGTGTGCTCCGGAGCAGGTACAGCCCTCGCCTCAGCATTGCAGGAGCAGCTCAAAGCC
 CCGGCCTCTCTCAGAGCCACCCCTGCCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230107 representing NM_001287261
 Red=Cloning site Green=Tags(s)

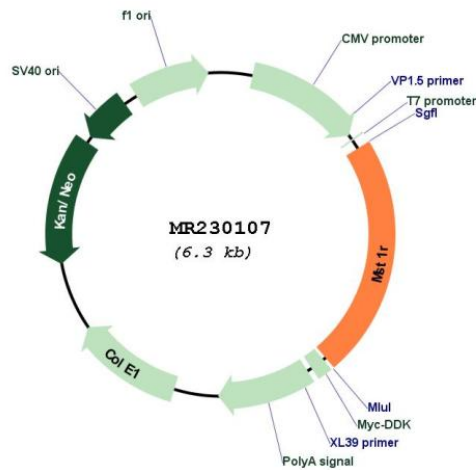
MTVGGVEVCQHELKRDVVICPLPSSLQLGKDGVPVPLQVCVDGGCHILSQVVRSSPGRASQRILLIALLVLIL
 LVAVLAVALIFNSRRRKKQLGAHSLSPITLSDINDTASGAPNHEESSES RDGTSVPLLRTESIRLQDLDR
 MLLAEVKDVLIPHEQVVIHTDQVIGKGFVGVYHGEYTDGAQNQTHCAIKSLSRITEVQEVEAFREGLL
 MRGLHHPNIALALIGIMLPPEGLPRVLLPYMRHGDLLHFIRSPQRNPTVKDLVSFGLQVACGMEYLAEQKF
 VHRDLAARNCMLEDSFTVKVADFLARGVLDKEYYSVRQHRHARLPVKWMALESQTQYRFTTKSDVVSFG
 VLLWELLTRGAPPYPHIDPFDLSHFLAQRRRLQPEYCPDSL YHVMLRCWEADPAARPTFRALVLEVKQV
 VASLLGDHYVQLTAAYVNVGPRAVDDGSPPEQVQPSQPCRSTSKPRPLSEPPLPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001287261

ORF Size:

1431 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_001287261.1](#), [NP_001274190.1](#)

RefSeq Size: 1796 bp

RefSeq ORF: 1434 bp

Locus ID: 19882

Cytogenetics: 9 F1

MW: 53.5 kDa

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]