

Product datasheet for **RC402619**

RON (MST1R) (NM_002447) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	RON (MST1R) (NM_002447) Human Mutant ORF Clone
Mutation Description:	K621X
Affected Codon#:	621
Affected NT#:	1861
Nucleotide Mutation:	MST1R Mutant (K621X), Myc-DDK-tagged ORF clone of Homo sapiens macrophage stimulating 1 receptor (c-met-related tyrosine kinase) (MST1R) as transfection-ready DNA
Effect:	Partial protein deficiency
Symbol:	MST1R
Synonyms:	CD136; CDw136; NPCA3; PTK8; RON; SEA
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002447
ORF Size:	1860 bp
Restriction Sites:	SgfI-MluI



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ORF Nucleotide Sequence:

>RC402619 representing NM_002447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCCTCCCGCCGCTGCCTCAGTCTTCTGTTGCTGCTGCTGTTGCCTGCCAAGCCCGCGCGG
 GCGAGGACTGGCAGTGCCCGCGCACCCCTACGCGGCCTCTCGGACTTTGACGTGAAGTACGTGGTGCC
 CAGCTTCTCCGCCGAGGCCTGGTACAGGCCATGGTGACCTACGAGGGCGACAGAAATGAGAGTGTGTG
 TTTGTAGCCATACGCAATCGCCTGCATGTGCTTGGCCTGACCTGAAGTCTGTCCAGAGCCTGGCCACGG
 GCCCTGCTGGAGACCCTGGTGCAGACGTGTGCAGCCTGTGGCCAGGACCCACGGCCCTCCCGGTGA
 CACAGACACAAAGGTGCTGGTGTGGATCCCGCCTGCCTGCGCTGGTCAAGTGTGGCTCCAGCCTGCAG
 GGCCGCTGCTTCTGCATGACCTAGAGCCCAAGGGACAGCCGTGCATCTGGCAGCGCCAGCCTGCCTCT
 TCTCAGCCACCATAACCGCCCGATGACTGCCCGACTGTGTGGCCAGCCATTGGGCACCCGTGTAAC
 TGTGGTTGAGCAAGGCCAGGCCCTCTATTTCTACGTGGCATCCTCACTGGACGCAGCCGTGGCTGCCAGC
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 CGTTGTCAAGTGTGCCAAGCATCTTGTCTCTACAGTATTGAATACGTGCACAGCTTCCACACGGGAGC
 CTTCTGATACTTCTGACTGTACAGCCGGCCAGCGTGACAGATGATCCTAGTGCCTGCACACACGCCTG
 GCACGGCTTAGCGCCACTGAGCCAGAGTTGGGTGACTATCGGGAGCTGGTCTCGACTGCAGATTTGCTC
 CAAAACGCAGGCGCCGGGGGGCCCAAGGCGGACAGCCCTACCCTGTGCTGCGGGTGGCCACTCCGC
 TCCAGTGGGTGCCAACTTGCCACTGAGCTGAGCATCGCCGAGGGCCAGGAAGTACTATTTGGGGTCTTT
 GTGACTGGCAAGGATGGTGGTCTGGCGTGGGCCCAACTCTGTCGTCTGTGCCTCCCCATTGACCTGC
 TGGACACACTAATTGATGAGGGTGTGGAGCGCTGTTGTAATCCCAAGTCCATCCAGCCCTCCGCGAGG
 CCTCGACTTCTCCAGTCGCCAGTTTTTGCCCAACCCGCTGGCCTGGAAGCCCTCAGCCCCAACACC
 AGCTGCCGCCACTTCCCTCTGCTGGTCAAGTGTGAGCCTTCTCACGTGTGGACCTATTCAATGGGCTGTTGG
 GACCAGTACAGGTCAGTGCATTGTATGTGACACGCCTTGACAACGTACAGTGGCACACATGGGCACAAT
 GGATGGGCGTATCCTGCAGGTGGAGCTGGTCAAGTCAAACTACTTGTGTATGTGTCCAACCTTCTCA
 CTGGGTGACAGTGGCCAGCCGTGCAGCGGGATGTCAAGTCTTGGGGACCACCTACTCTTTCCTCTG
 GGGACCAGTTTTCCAGGTACCTATCCAAGCCCTGGCTGCCGCCACTTCTGACCTGTGGGCGTGGCT
 AAGGGCATGGCATTTCATGGGCTGTGGTGGTGTGGGAACATGTGCGGCCAGCAGAAGGAGTGTCTGGC
 TCTGGCAACAGGACCACTGCCACCTAAGCTTACTGAGTTCACCCCCACAGTGGACCTTAAGGGGCA
 GTACAAGGCTGACCTGTGTGGCTCCAACCTTCTACCTTACCCTTCTGGTCTGGTGCCTGAGGGAACCA
 TCAGGTCACTGTGGGCCAAAGTCCCTGCCGGCCACTGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

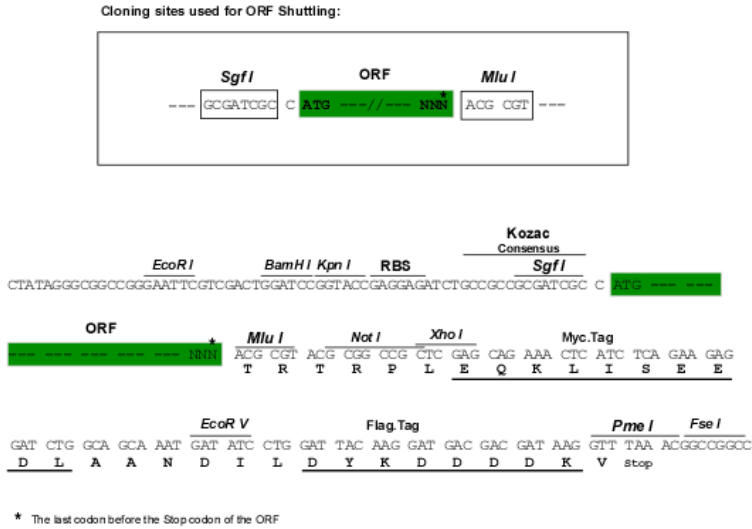
>RC402619 representing NM_002447
 Red=Cloning site Green=Tags(s)

MELLPLPQSFLLLLLLPAKPAAGEDWQCPRTPYAASRDFDVKYVVPFSAGGLVQAMVTEGDRNESAV
 FVAIRNRLHVLGPDLSVQSLATGPAGDPGCQTCAACGPGPHPPGDTDKVLVLDPALPALVSCGSSLQ
 GRCFLHLEPQGTAVHLAAPACLFSAHHRPDDCPDCVASPLGTRVTVVEQGQASYFYVASSLDAVAAS
 FSPRSVIRRLKADASGFAPGFVALSVLPKHLVSYISIEYVHSFHTGAFVYFLTVQPASVTDPSALHTRL
 ARLSATEPELGDYRELVLDCRFAPKRRRRGAPEGGQYPVLRVAHSAPVGAQLATELSIAEQEVLFGVF
 VTGKDGPGVGPNSVVCFAPIDLLDTLIDEGVERCCESPVHPGLRRGLDFQSPSFCPNPPGLEALSPNT
 SCRHFPLLVSFSRVDFNGLLGPVQVTALYVTRLDNVTVAHMTMDGRILQVELVRSLLNYLLYVSNFS
 LGDSGQPVQRDVSRLGDHLLFASGDQVFQVPIQGPGRHFLTCGRCLRAWHFMGCGWCGNMCGQKCEPG
 SWQQDHCPPKLTEFHPSGPLRGSTRLLTLCGSNFYLHPSGLVPEGTHQVTVGQSPCRPLP

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq:

[NP_002438](#)

RefSeq Size:

1860 bp

RefSeq ORF:

4203 bp

Locus ID:

4486

Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
MW:	68.2 kDa
Gene Summary:	<p>This gene encodes a cell surface receptor for macrophage-stimulating protein (MSP) with tyrosine kinase activity. The mature form of this protein is a heterodimer of disulfide-linked alpha and beta subunits, generated by proteolytic cleavage of a single-chain precursor. The beta subunit undergoes tyrosine phosphorylation upon stimulation by MSP. This protein is expressed on the ciliated epithelia of the mucociliary transport apparatus of the lung, and together with MSP, thought to be involved in host defense. Alternative splicing generates multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Jan 2016]</p>