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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:	Poenil proein defiieny
Symbol:	RON
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
GCCGCGATCGCC

ATGGAGCTCCTCCCGCCGCTGCCTCAGTCCTTCCTGTTGCTGCTGCTGTTGCCTGCCAAGCCCGCGGCGG
GCGAGGACTGGCAGTGCCCGCGCACCCCCTACGCGGCCTCTCGCGACTTTGACGTGAAGTACGTGGTGCC
CAGCTTCTCCGCCGGAGGCCTGGTACAGGCCATGGTGACCTACGAGGGCGACAGAAATGAGAGTGCTGTG
TTTGTAGCCATACGCAATCGCCTGCATGTGCTTGGGCCTGACCTGAAGTCTGTCCAGAGCCTGGCCACGG
GCCCTGCTGGAGACCCTGGCTGCCAGACGTGTGCAGCCTGTGGCCCAGGACCCCACGGCCCTCCCGGTGA
CACAGACACAAAGGTGCTGGTGCTGGATCCCGCGCTGCCTGCGCTGGTCAGTTGTGGCTCCAGCCTGCAG
GGCCGCTGCTTCCTGCATGACCTAGAGCCCCAAGGGACAGCCGTGCATCTGGCAGCGCCAGCCTGCCTCT
TCTCAGCCCACCATAACCGGCCCGATGACTGCCCCGACTGTGTGGCCAGCCCATTGGGCACCCGTGTAAC
TGTGGTTGAGCAAGGCCAGGCCTCCTATTTCTACGTGGCATCCTCACTGGACGCAGCCGTGGCTGCCAGC
TTCAGCCCACGCTCAGTGTCTATCAGGCGTCTCAAGGCTGACGCCTCGGGATTCGCACCGGGCTTTGTGG
CGTTGTCAGTGCTGCCCAAGCATCTTGTCTCCTACAGTATTGAATACGTGCACAGCTTCCACACGGGAGC
CTTCGTATACTTCCTGACTGTACAGCCGGCCAGCGTGACAGATGATCCTAGTGCCCTGCACACACGCCTG
GCACGGCTTAGCGCCACTGAGCCAGAGTTGGGTGACTATCGGGAGCTGGTCCTCGACTGCAGATTTGCTC
CAAAACGCAGGCGCCGGGGGGCCCCAGAAGGCGGACAGCCCTACCCTGTGCTGCGGGTGGCCCACTCCGC
TCCAGTGGGTGCCCAACTTGCCACTGAGCTGAGCATCGCCGAGGGCCAGGAAGTACTATTTGGGGTCTTT
GTGACTGGCAAGGATGGTGGTCCTGGCGTGGGCCCCAACTCTGTCGTCTGTGCCTTCCCCATTGACCTGC
TGGACACACTAATTGATGAGGGTGTGGAGCGCTGTTGTGAATCCCCAGTCCATCCAGGCCTCCGGCGAGG
CCTCGACTTCTTCCAGTCGCCCAGTTTTTGCCCCAACCCGCCTGGCCTGGAAGCCCTCAGCCCCAACACC
AGCTGCCGCCACTTCCCTCTGCTGGTCAGTAGCAGCTTCTCACGTGTGGACCTATTCAATGGGCTGTTGG
GACCAGTACAGGTCACTGCATTGTATGTGACACGCCTTGACAACGTCACAGTGGCACACATGGGCACAAT
GGATGGGCGTATCCTGCAGGTGGAGCTGGTCAGGTCACTAAACTACTTGCTGTATGTGTCCAACTTCTCA
CTGGGTGACAGTGGGCAGCCCGTGCAGCGGGATGTCAGTCGTCTTGGGGACCACCTACTCTTTGCCTCTG
GGGACCAGGTTTTCCAGGTACCTATCCAAGGCCCTGGCTGCCGCCACTTCCTGACCTGTGGGCGTTGCCT
AAGGGCATGGCATTTCATGGGCTGTGGCTGGTGTGGGAACATGTGCGGCCAGCAGAAGGAGTGTCCTGGC
TCCTGGCAACAGGACCACTGCCCACCTAAGCTTACTGAGTTCCACCCCCACAGTGGACCTCTAAGGGGCA
GTACAAGGCTGACCCTGTGTGGCTCCAACTTCTACCTTCACCCTTCTGGTCTGGTGCCTGAGGGAACCCA
TCAGGTCACTGTGGGCCAAAGTCCCTGCCGGCCACTGCCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

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

MELLPPLPQSFLLLLLLPAKPAAGEDWQCPRTPYAASRDFDVKYVVPSFSAGGLVQAMVTYEGDRNESAV
FVAIRNRLHVLGPDLKSVQSLATGPAGDPGCQTCAACGPGPHGPPGDTDTKVLVLDPALPALVSCGSSLQ
GRCFLHDLEPQGTAVHLAAPACLFSAHHNRPDDCPDCVASPLGTRVTVVEQGQASYFYVASSLDAAVAAS
FSPRSVSIRRLKADASGFAPGFVALSVLPKHLVSYSIEYVHSFHTGAFVYFLTVQPASVTDDPSALHTRL
ARLSATEPELGDYRELVLDCRFAPKRRRRGAPEGGQPYPVLRVAHSAPVGAQLATELSIAEGQEVLFGVF
VTGKDGGPGVGPNSVVCAFPIDLLDTLIDEGVERCCESPVHPGLRRGLDFFQSPSFCPNPPGLEALSPNT
SCRHFPLLVSSSFSRVDLFNGLLGPVQVTALYVTRLDNVTVAHMGTMDGRILQVELVRSLNYLLYVSNFS
LGDSGQPVQRDVSRLGDHLLFASGDQVFQVPIQGPGCRHFLTCGRCLRAWHFMGCGWCGNMCGQQKECPG
SWQQDHCPPKLTEFHPHSGPLRGSTRLTLCGSNFYLHPSGLVPEGTHQVTVGQSPCRPLP

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

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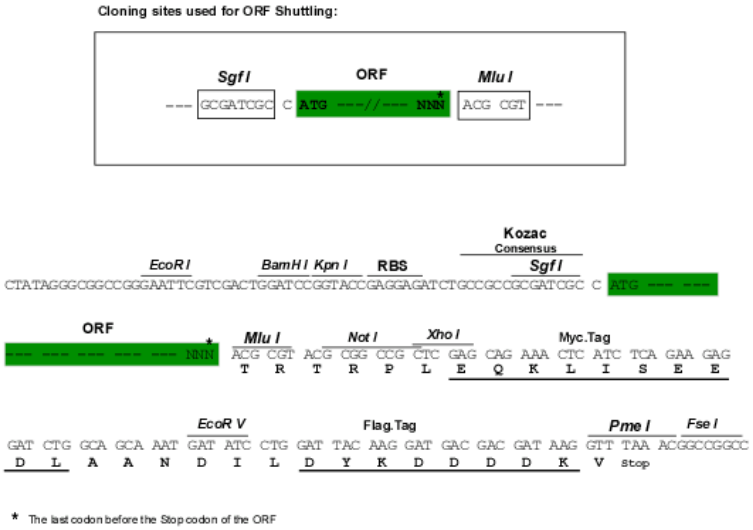
Restriction Sites: SgfI-MluI

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).

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NP_002438

RefSeq Size: 1860 bp

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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:	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]

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