OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC600032

RON (MST1R) (NM_002447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RON (MST1R) (NM_002447) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	RON
Synonyms:	CD136; CDw136; NPCA3; PTK8; RON; SEA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RC600032 representing leader sequence plus the extracellular domain region of NM_002447
Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGAGCTCCTCCCGCCGCTGCCTCAGTCCTTCCTGTTGCTGCTGCTGTTGCCTGCCAAGCCCGCGGCGG
GCGAGGACTGGCAGTGCCCGCGCACCCCCTACGCGGCCTCTCGCGACTTTGACGTGAAGTACGTGGTGCC
CAGCTTCTCCGCCGGAGGCCTGGTACAGGCCATGGTGACCTACGAGGGCGACAGAAATGAGAGTGCTGTG
TTTGTAGCCATACGCAATCGCCTGCATGTGCTTGGGCCTGACCTGAAGTCTGTCCAGAGCCTGGCCACGG
GCCCTGCTGGAGACCCTGGCTGCCAGACGTGTGCAGCCTGTGGCCCAGGACCCCACGGCCCTCCCGGTGA
CACAGACACAAAGGTGCTGGTGCTGGATCCCGCGCTGCCTGCGCTGGTCAGTTGTGGCTCCAGCCTGCAG
GGCCGCTGCTTCCTGCATGACCTAGAGCCCCAAGGGACAGCCGTGCATCTGGCAGCGCCAGCCTGCCTCT
TCTCAGCCCACCATAACCGGCCCGATGACTGCCCCGACTGTGTGGCCAGCCCATTGGGCACCCGTGTAAC
TGTGGTTGAGCAAGGCCAGGCCTCCTATTTCTACGTGGCATCCTCACTGGACGCAGCCGTGGCTGCCAGC
TTCAGCCCACGCTCAGTGTCTATCAGGCGTCTCAAGGCTGACGCCTCGGGATTCGCACCGGGCTTTGTGG
CGTTGTCAGTGCTGCCCAAGCATCTTGTCTCCTACAGTATTGAATACGTGCACAGCTTCCACACGGGAGC
CTTCGTATACTTCCTGACTGTACAGCCGGCCAGCGTGACAGATGATCCTAGTGCCCTGCACACACGCCTG
GCACGGCTTAGCGCCACTGAGCCAGAGTTGGGTGACTATCGGGAGCTGGTCCTCGACTGCAGATTTGCTC
CAAAACGCAGGCGCCGGGGGGCCCCAGAAGGCGGACAGCCCTACCCTGTGCTGCGGGTGGCCCACTCCGC
TCCAGTGGGTGCCCAACTTGCCACTGAGCTGAGCATCGCCGAGGGCCAGGAAGTACTATTTGGGGTCTTT
GTGACTGGCAAGGATGGTGGTCCTGGCGTGGGCCCCAACTCTGTCGTCTGTGCCTTCCCCATTGACCTGC
TGGACACACTAATTGATGAGGGTGTGGAGCGCTGTTGTGAATCCCCAGTCCATCCAGGCCTCCGGCGAGG
CCTCGACTTCTTCCAGTCGCCCAGTTTTTGCCCCAACCCGCCTGGCCTGGAAGCCCTCAGCCCCAACACC
AGCTGCCGCCACTTCCCTCTGCTGGTCAGTAGCAGCTTCTCACGTGTGGACCTATTCAATGGGCTGTTGG
GACCAGTACAGGTCACTGCATTGTATGTGACACGCCTTGACAACGTCACAGTGGCACACATGGGCACAAT

View online »

GGATGGGCGTATCCTGCAGGTGGAGCTGGTCAGGTCACTAAACTACTTGCTGTATGTGTCCAACTTCTCA
CTGGGTGACAGTGGGCAGCCCGTGCAGCGGGATGTCAGTCGTCTTGGGGACCACCTACTCTTTGCCTCTG
GGGACCAGGTTTTCCAGGTACCTATCCAAGGCCCTGGCTGCCGCCACTTCCTGACCTGTGGGCGTTGCCT
AAGGGCATGGCATTTCATGGGCTGTGGCTGGTGTGGGAACATGTGCGGCCAGCAGAAGGAGTGTCCTGGC
TCCTGGCAACAGGACCACTGCCCACCTAAGCTTACTGAGTTCCACCCCCACAGTGGACCTCTAAGGGGCA
GTACAAGGCTGACCCTGTGTGGCTCCAACTTCTACCTTCACCCTTCTGGTCTGGTGCCTGAGGGAACCCA
TCAGGTCACTGTGGGCCAAAGTCCCTGCCGGCCACTGCCCAAGGACAGCTCAAAACTCAGACCAGTGCCC
CGGAAAGACTTTGTAGAGGAGTTTGAGTGTGAACTGGAGCCCTTGGGCACCCAGGCAGTGGGGCCTACCA
ACGTCAGCCTCACCGTGACTAACATGCCACCGGGCAAGCACTTCCGGGTAGACGGCACCTCCGTGCTGAG
AGGCTTCTCTTTCATGGAGCCAGTGCTGATAGCAGTGCAACCCCTCTTTGGCCCACGGGCAGGAGGCACC
TGTCTCACTCTTGAAGGCCAGAGTCTGTCTGTAGGCACCAGCCGGGCTGTGCTGGTCAATGGGACTGAGT
GTCTGCTAGCACGGGTCAGTGAGGGGCAGCTTTTATGTGCCACACCCCCTGGGGCCACGGTGGCCAGTGT
CCCCCTTAGCCTGCAGGTGGGGGGTGCCCAGGTACCTGGTTCCTGGACCTTCCAGTACAGAGAAGACCCT
GTCGTGCTAAGCATCAGCCCCAACTGTGGCTACATCAACTCCCACATCACCATCTGTGGCCAGCATCTAA
CTTCAGCATGGCACTTAGTGCTGTCATTCCATGACGGGCTTAGGGCAGTGGAAAGCAGGTGTGAGAGGCA
GCTTCCAGAGCAGCAGCTGTGCCGCCTTCCTGAATATGTGGTCCGAGACCCCCAGGGATGGGTGGCAGGG
AATCTGAGTGCCCGAGGGGATGGAGCTGCTGGCTTTACACTGCCTGGCTTTCGCTTCCTACCCCCACCCC
ATCCACCCAGTGCCAACCTAGTTCCACTGAAGCCTGAGGAGCATGCCATTAAGTTTGAGTATATTGGGCT
GGGCGCTGTGGCTGACTGTGTGGGTATCAACGTGACCGTGGGTGGTGAGAGCTGCCAGCACGAGTTCCGG
GGGGACATGGTTGTCTGCCCCCTGCCCCCATCCCTGCAGCTTGGCCAGGATGGTGCCCCATTGCAGGTCT
GCGTAGATGGTGAATGTCATATCCTGGGTAGAGTGGTGCGGCCAGGGCCAGATGGGGTCCCACAGAGCAC
G

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTCGACTCTAGA

Protein Sequence:

>RC600032 representing signal peptide plus the extracellular domain region of NM_002447
Red=Cloning sites Green= DDK and 6XHIS Tags

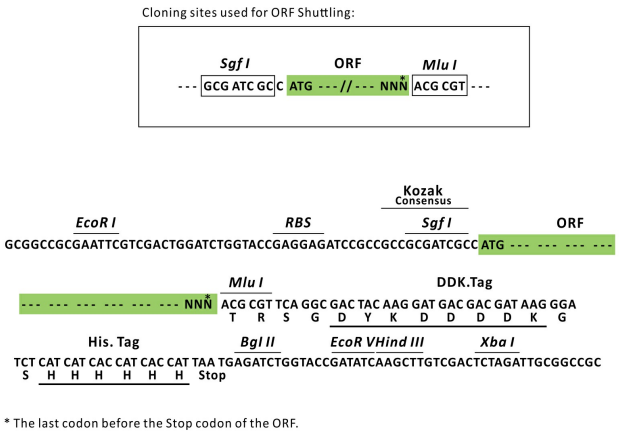
MELLPPLPQSFLLLLLLPAKPAAGEDWQCPRTPYAASRDFDVKYVVPSFSAGGLVQAMVTYEGDRNESAV
FVAIRNRLHVLGPDLKSVQSLATGPAGDPGCQTCAACGPGPHGPPGDTDTKVLVLDPALPALVSCGSSLQ
GRCFLHDLEPQGTAVHLAAPACLFSAHHNRPDDCPDCVASPLGTRVTVVEQGQASYFYVASSLDAAVAAS
FSPRSVSIRRLKADASGFAPGFVALSVLPKHLVSYSIEYVHSFHTGAFVYFLTVQPASVTDDPSALHTRL
ARLSATEPELGDYRELVLDCRFAPKRRRRGAPEGGQPYPVLRVAHSAPVGAQLATELSIAEGQEVLFGVF
VTGKDGGPGVGPNSVVCAFPIDLLDTLIDEGVERCCESPVHPGLRRGLDFFQSPSFCPNPPGLEALSPNT
SCRHFPLLVSSSFSRVDLFNGLLGPVQVTALYVTRLDNVTVAHMGTMDGRILQVELVRSLNYLLYVSNFS
LGDSGQPVQRDVSRLGDHLLFASGDQVFQVPIQGPGCRHFLTCGRCLRAWHFMGCGWCGNMCGQQKECPG
SWQQDHCPPKLTEFHPHSGPLRGSTRLTLCGSNFYLHPSGLVPEGTHQVTVGQSPCRPLPKDSSKLRPVP
RKDFVEEFECELEPLGTQAVGPTNVSLTVTNMPPGKHFRVDGTSVLRGFSFMEPVLIAVQPLFGPRAGGT
CLTLEGQSLSVGTSRAVLVNGTECLLARVSEGQLLCATPPGATVASVPLSLQVGGAQVPGSWTFQYREDP
VVLSISPNCGYINSHITICGQHLTSAWHLVLSFHDGLRAVESRCERQLPEQQLCRLPEYVVRDPQGWVAG
NLSARGDGAAGFTLPGFRFLPPPHPPSANLVPLKPEEHAIKFEYIGLGAVADCVGINVTVGGESCQHEFR
GDMVVCPLPPSLQLGQDGAPLQVCVDGECHILGRVVRPGPDGVPQST

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8118_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF.

ACCN:	NM_002447
ORF Size:	2871 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 extra cellular domain of the protein 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_002447.2, NP_002438.2
RefSeq Size:	4785 bp
RefSeq ORF:	4203 bp

Locus ID:	4486
UniProt ID:	Q04912
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
MW:	102.3 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]