

Product datasheet for **SC309913**

RON (MST1R) (NM_002447) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RON (MST1R) (NM_002447) Human Untagged Clone
Tag:	Tag Free
Symbol:	RON
Synonyms:	CD136; CDw136; NPCA3; PTK8; RON; SEA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002447 edited
 GAATTCGCACCCAGTCGGGACCGCTGCTTAAATTTGGCCAGTCCAGACCTCGAGTCGGGC
 CCCCAGCCAGGCCACGCCAGGTCCAGGCCAGGCCGAGGGATCCTCTAGGGTCCCA
 GCTCGCCTCGATGGAGCTCCTCCCGCCGCTGCCTCAGTCCTTCCCTGTTGCTGCTGTT
 GCCTGCCAAGCCCGCGGGGCGAGGACTGGCAGTGCCTCCGCGCACCCCTACGCGCCTC
 TCGCGACTTTGACGTGAAGTACGTGGTCCCAGCTTCTCCCGGAGGCCTGGTACAGGC
 CATGGTGACCTACGAGGGCGACAGAAATGAGAGTGTGTGTTGTAGCCATACGCAATCG
 CCTGCATGTGCTTGGCCTGACCTGAAGTCTGTCCAGAGCCTGGCCACGGGCCCTGCTGG
 AGACCCTGGCTGCCAGAGCTGTGCAGCCTGTGGCCAGGACCCACGGCCCTCCCGGTGA
 CACAGACAAAAGGTGCTGGTGTGGATCCCGCCTGCCTGCGCTGGTCAGTTGTGGCTC
 CAGCCTGCAGGGCCGCTGCTTCTGCATGACCTAGAGCCCAAGGGACAGCCGTGCATCT
 GGACGCGCCAGCCTGCCTTCTCAGCCACCATAACCGGCCCGATGACTGCCCGGACTG
 TGTGGCCAGCCATTGGGCACCCGTGTAAGTGTGGTTGAGCAAGGCCAGGCCTCCTATTT
 CTACGTGGCATCCTCACTGGACGCAGCCGTGGCTGCCAGCTTCCAGCCACGCTCAGTGT
 TATCAGGCGTCTCAAGGCTGACGCTCGGGATTCCGACCCGGGCTTTGTGGCGTTGTGAGT
 GCTGCCAAGCATCTTGTCTCCTACAGTATTGAATACGTGCACAGCTTCCACACGGGAGC
 CTTGCGTACTTCTGACTGTACAGCCGCCAGCGTGACAGATGATCCTAGTGCCTGCA
 CACACGCTGGCAGCCCTTAGCGCCACTGAGCCAGAGTTGGGTGACTATCGGGAGCTGGT
 CCTCGACTGCAGATTTGCTCCAAAACGCAGGCGCCGGGGGGCCCAAGAAGGCGGACAGCC
 CTACCCTGTGCTGCGGGTGGCCCACTCCGCTCCAGTGGGTGCCCAACTGCCACTGAGCT
 GAGCATCGCCAGGGCCAGGAAGTACTATTTGGGGTCTTTGTGACTGGCAAGGATGGTGG
 TCCTGGCGTGGGCCCAACTCTGTGCTGTGCCTTCCCCATTGACCTGTGGACACACT
 AATTGATGAGGGTGTGGAGCGCTGTTGTGAATCCCAAGTCCATCCAGGCCTCCGGCGAGG
 CCTCGACTTCTCCAGTCGCCAGTTTTTGGCCCAACCCGCTGGCCTGGAAGCCCTCAG
 CCCCACACCAGCTGCCGCCACTTCCCTCTGCTGGTCAGTAGCAGCTTCTCACGTGTGGA
 CCTATTCAATGGGCTGTTGGGACCAGTACAGGTCAGTGCATTGTATGTGACACGCCCTTGA
 CAACGTCACAGTGGCACACATGGGCACAATGGATGGGCGTATCCTGCAGGTGGAGCTGGT



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CAGGTCATAAACTACTTGTCTGTATGTGTCCAACCTTCTACTGGGTGACAGTGGGCAGCC
 CGTGCAGCGGGATGTCAGTCGTCTTGGGGACCCTACTCTTTGCCTCTGGGGACCAGGT
 TTTCCAGGTACCTATCCAAGGCCCTGGCTGCCGCCACTTCTGACCTGTGGGCGTTGCT
 AAGGGCATGGCATTTCATGGGCTGTGGCTGGTGTGGGAACATGTGCGGCCAGCAGAAGGA
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 CAGTGGACCTCTAAGGGCAGTACAAGGCTGACCCTGTGTGGCTCCAACCTCTACCTTCA
 CCCTTCTGGTCTGGTGCCTGAGGGAACCCATCAGGTCAGTGTGGGCCAAAGTCCCTGCC
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 AGGCTTCTTTTCATGGAGCCAGTGTGATAGCAGTGCAACCCCTCTTTGGCCACGGGC
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 GGAGCATGCCATTAAGTTGAGTATATTGGGCTGGGCGCTGTGGCTGACTGTGTGGGTAT
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 CCCCCTGCCCCATCCCTGCAGTTGGCCAGGATGGTGCCCATTCAGAGTCTGCTGAGA
 TGGTGAATGTATCTCTGGGTAGAGTGGTGGCCAGGCCAGATGGGGTCCCACAGAG
 CACGCTCCTTGGTATCCTGCTGCCCTTGTGCTGCTTGTGGCTGCACTGGCGACTGCACT
 GGTCTTACGTAAGTGGTGGCGGAGGAAGCAGCTAGTTCTTCTCCCAACCTGAATGACCT
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 CATCCAGTAAGGGACCTGGACTCTGCGCTCTTGGCTGAGGTCAAGGATGTGCTGATTCC
 CCATGAGCGGGTGGTCAACACAGTACCGAGTCAATTGGCAAAGGCCACTTTGGAGTTGT
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 AAGTCGCATCACAGAGATGCAGCAGGTGGAGGCCTTCTGCGAGAGGGGCTGCTCATGCG
 TGGCCTGAACCACCCGAATGTGCTGGCTCTCATTGGTATCATGTTGCCACCTGAGGGCCT
 GCCCATGTGCTGCTGCCCTATATGTGCCACGGTACCTGCTCCAGTTTATCCGCTCACC
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 GGAGTACCTGGCAGAGCAGAAGTTTGTGCACAGGGACCTGGCTGCGCGGAACTGCATGCT
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 TACCCACTTCTGGCCAGGGTGGCGCCTGCCACAGCCTGAGTATTGCCCTGATTCTCT
 GTACCAAGTGTGAGCAATGCTGGGAGGCAGACCCAGCAGTGGCACCCACCTTCAGAGT
 ACTAGTGGGGAGGTGGAGCAGATAGTGTCTGCACTGCTTGGGGACCATATGTGCAGCT
 GCCAGCAACCTACATGAACTTGGGCCCCAGCACCTCGCATGAGATGAATGTGCGTCCAGA
 ACAGCCGAGTTCTCACCATGCCAGGGAATGTACGCCGGCCCCGGCCACTCTCAGAGCC
 TCCTCGGCCACTTGACTTAGTTCTTGGGCTGGACCTGCTTAGCTGCCTTGGACTAACCC
 CAAGCTGCCTCTGGGCCATGCCAGGCCAGAGGGCAGTGGCCCTCCACCTTGTTCCTGCC
 TTTAACTTTCAGAGGCAATAGGTAATGGGGCCATTAGGTCCCTCACTCCACAGAGTGA
 GCCAGTGGGGCAGTCTGCAACATGTATTTATGGAGTGCCTGCTGTGGACCCTGTCTTC
 TGGGCACAGTGGACTCAGCAGTGACCACACCAACTGACCCCTTGAACCAATAAAGGAAC
 AAATGACTATTAAGCAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002447 unedited</p> <pre>TGACTTCGTNCCGACTGNCAGTTCGCGCAGCCAGGTCCTGTGCACAACTTCTGCTCT GCCAGGTAATCCATGCCGCGGGCTACCTGCAGGCCAAAGCTGATGAGGTCCTTACGGTG GGGTTCCGCTGAGGTGAGCGGATGAACTGGAGCAGGTCACCGTGGCACATATAGGGCAGC AGCACATGGGGCAGGCCCTCAGGTGGCAACATGATACCAATGAGAGCCAGCACATTCGGG TGGTTCAGGCCACGCATGAGCAGCCCTCTCGCAGGAAGGCCCTCCACCTGCTGCATCTCT GTGATGCGACTTAGTGACTTGATGGCACATTGGATTTCGATTCTGGGCTGTCTATGTAT TCTCCGTGGTAGACAACCTCAAAGTGGCCTTTGCCAATGACTCGGTCACTGTGGGTGACC ACCCGCTCATGGGAATCAGCACATCCTTGACCTCAGCCAAGAGCGCAGAGTCCAGGTCC CTTAGCTGGATGGACTCTTCCGCGCAGTGGCACACAGGATTCATCTTCACTATCGGAG AAGGATGCTCCATGGACACAAGTGGTGAATCCAGACCATCAATGGCAGGGAGTGCAAGG CCACTTCTGTAGTCAGAGCCGAGTACAGAATAGGCAGGGGTGTGGCTCCAGCAGTCTGG TCCAGGGATGCCAGGTCATTAGGTTGGGAGGAAGAACTAGCTGCTTCTCCGCCACCAG TAGCTGAAGACCAGTGCAGTCGCCAGTGCAGCCACAAGCAGCAGCAAAGGCAGCAGGATA CCAAGGAGCGTCTGTGGGACCCCATCTGGCCCTGGCCGCAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002447 unedited</p> <pre>AGNANAGCACTGGGGNAGGGTCACAGGGATGCCACCCGGGATCTGTTCAGGAACAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTTAAATAGCATTT GTTCTTTATTGGTTCAAGGGTCAGTGTGGTGTGGTCACTGCTGAGTCCACTGTGCCCA GAAGACAGGGTCCACAGCAGGCACTCCATAAATACATGTTGCAGGACTGCCCTCACTGGC TCACTCTGTGGAGTGAGGGACCTAATGGGCCCCATTTACCTATTGCCTCTGAAAGTTAA GGGCAGGAACAAGGTGGAGGGCCACTGCCCTCTGGCCTGGCATGGCCCAGAGGCAGCTTG GGGTTAGCTCAAGGCAGCTAAGCAGGTCCAGCCCAAGAACTAAGTCAAGTGGGCCGAGGA GGCTCTGAGAGTGGCCGGGGCCGGCGTACATTCCTGGCATGGGTGAGAAGTGGCGCTGT TCTGGACGCACATTATCTCATGCGAGGTGCTGGGGCCCAAGTTCATGTAGGTTGCTGGC AGCTGCACATAATGGTCCCAAGCAGTGCAGACACTATCTGCTCCACCTCCCCCACTAGC ACCTCTGAAGTGGTTCGCACTGCTGGGTCTGCCTCCAGCATTGCTGCATCACTTGGTAC AGAGAATCANGGCAATACTCANGCTGGGGCAGGCGCCGACCTGGGCCACGAAGTGGGTT AGGTCAAAAAGGTCAATGTGCCGGTATGGTGGGGCACCCCGTGTACCAGTTTCCACAGC CACCCCCAAAAGACCACACATCAGACTTTGTGGGTAATCTATAAGGGCTGCAGGCTCT TCCACGCCG</pre>
Restriction Sites:	Please inquire
ACCN:	NM_002447
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	There are 5 nucleotide differences between the OriGene clone and the NCBI reference ORF and 1 additional CAG tri-nucleotide repeat, none of which cause any frameshift. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 3 amino acids and the addition of one glutamine.
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_002447.1](#), [NP_002438.1](#)

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

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as isoform Ron).