

Product datasheet for **SC301044**

RYK (NM_001005861) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RYK (NM_001005861) Human Untagged Clone
Tag:	Tag Free
Symbol:	RYK
Synonyms:	D3S3195; JTK5; JTK5A; RYK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001005861 edited
 ATGCGTGGGGCGGCGCGGCTGGGGCGGCGGGCCGGAGTTGCCTCCCGGGGGCCCGCGGC
 CTGAGGGCCCCGCGCCGCCGCGCTGTGCTTCTGCTTGCCTGTTGCCGCTGTGCC
 GCGCCTGGCGTGCCGCCGCCCGCCCGCGGCCCCGGAGCTGCAGTCGGCTTCCGCG
 GGGCCAGCGTGAGTCTTACCTGAGCGAGGACGAGGTGCGCCGCTGATCGGTCTTGT
 GCAGAACTTTATTATGTGAGAAATGACCTTATTAGTCACTACGCTCTATCCTTTAGTCTG
 TTAGTACCCAGTGAGACAAATTTCTGCACTTCACTGGCATGCGAAGTCCAAGGTTGAA
 TATAAGCTGGATTCCAAGTGGACAATGTTTTGGCAATGGATATGCCCCAGGTCAACATT
 TCTGTTACAGGGGAAGTTCACGCACTTTATCAGTGTTCGGGTAGAGCTTTCCTGTACT
 GGCAAAGTAGATTCTGAAGTTATGATACTAATGCAGCTCAACTTGACAGTAAATCTTCA
 AAAAAATTTACCGTCTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAAATTGAAGAA
 GTAAAAATTCAGCCTTGGACAAAAACTAGCAGAACTTTTATGATCCTGTACATGCA
 GCTCCAACCACTTCTACGCGTGTGTTTTATATTAGTGTAGGGTTTGTGTGCAGTAATA
 TTTCTCGTAGCAATAATATTAGTGTGTTTGCACCTTCATAGTATGAAAAGGATTGAACTG
 GATGACAGCATTAGTGCCAGCAGTAGTTCCTCAAGGGCTGTCTCAGCCATCCACCCAGACG
 ACTCAGTATCTGAGAGCAGACACGCCCAACAATGCAACTCCTATACCAGCTCCTTAGGT
 TATCCTACCTTGGGATAGAGAAGAACGACTTGAGAAGTGTCACTCTTTTGGAGGCCAAA
 GGCAAGGTGAAGGATATAGCAATATCCAGAGAGAGGATAACTCTAAAAGATGACTCCAA
 GAAGGTACTTTTGGGCGTATTTTCCATGGGATTTAATAGATGAAAAAGATCCAAATAAA
 GAAAAACAAGCATTGTCAAACAGTTAAAGATCAAGCTTCTGAAATTCAGGTGACAATG
 ATGCTCACTGAAAGTTGTAAGCTGCGAGGTCTTCATCACAGAAATCTTCTCCTATTACT
 CATGTGTATAGAAGAAGGAGAAAAGCCCATGGTGATATTGCCTTACATGAATTGGGGG
 AATCTTAAATGTTTTTACGACAGTGAAGTTAGTAGAGGCCAATAATCCACAGGCAATT
 TCTCAGCAAGACCTGGTACACATGGCTATTCAGATTGCCTGTGGAATGAGCTACCTGGCC
 AGAAGGGAAGTCAACACAAGACCTGGCTGCCAGGAAGTGTGTCATTGATGACACACTT
 CAAGTTAAGATCACAGACAATGCCCTCTCCAGAGACTTGTCCCATGGACTATCACTGT
 CTGGGGGACAATGAAAACAGGCCAGTTCGTTGGATGGCTCTTGAAGTCTGGTTAATAAC
 GAGTTCTTAGCGCTAGTGTGTGGGCTTTGGAGTGACGCTGTGGGAACTCATGACT
 CTGGGCCAGACTCCCTACGTGGACATTGACCCCTTCGAGATGGCCGCATACCTGAAAGAT
 GGTACCGAATAGCCAGCCAATCAACTGCTCCTGATGAATATTTGCTGTGATGGCCTGT
 TGCTGGGCCTTAGATCCAGAGGAGAGGCCCAAGTTTCAGCAGCTGGTACAGTGCCTAACA
 GAGTTTATGCAGCCCTGGGGCCTACGCTGA

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001005861 unedited
 GCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATAAAAACAAATCCTTT
 AATTTTTCAAGTGTAAAAAACAATTTTATACTTAAGCCAGCCTTGAAGATAAGCACAA
 AATTTACCAGTTTACATTTAAAAAACAACAAAAACGACAACCACTCAAGCACCCGCTC
 TGTGCATAGCACTATTCTAGGTGCAATAAAAGGGAATCTTAACCTTAGAAATATGAGTTC
 ACTTTCTGGAATTGTATTATCTCCTTTTCCAGAGAGTAAAAATAAATAAAATCACCATTG
 TTTACTACAGATCTGCCCAAACACATCTGGTTCACAGAAAGGCTAATTTCTGCCAAAT
 TAAAGATGTAATGAACTCAGTTCCTGCTTTCCAAAAACAGAAAGCAGAATTCCTTTTC
 ACTGAAAAAATAAACAGTTTTCCATGCAAGGGCAGTTTGCTTCTAATAAGTATTTTTAA
 AAAAAATTTTTTCTCTAGCTTTTCTTAAATTTTCTCCTCTAATATTGCCTTTTCT
 TGTACAAGGCAGACCAGGTATCTTTTTATGCTGTTTTTCTTTACTAAGAAAAGCATTGC
 ATCTTGAAGACAACCATTTCCACAGTAGCGATAAAAAATAACACTAAAAAACTTTAA
 AGGTGAGTCACTTACATACCTTGATGAAGTAAAAAATAAAAAAGCAGCTGGCACTAAGA
 TAGCTAATTTCAAATATCTGCGTCTAAACAATCTTAAAAACTGTTTATTTATTTGTAAG
 AAGTACCCTAGCCCAAATAAGATGTTTTAAAAAATTTGCCAAAAAATTACAAAACCTT
 AAGGCCACTATAAAGTGATTCTAAAAATGCCCATATTAAGCTGCCTCAAAGTCAGATC
 AAAAAATCTAAGGCCGAGTCTGAAGAAATGGCTTTGTGCGCTGGGTAAACN

Restriction Sites: NotI-NotI

ACCN:	NM_001005861
Insert Size:	3090 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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:	<u>NM_001005861.1</u> , <u>NP_001005861.1</u>
RefSeq Size:	2942 bp
RefSeq ORF:	1833 bp
Locus ID:	6259
UniProt ID:	<u>P34925</u>
Cytogenetics:	3q22.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is an atypical member of the family of growth factor receptor protein tyrosine kinases, differing from other members at a number of conserved residues in the activation and nucleotide binding domains. This gene product belongs to a subfamily whose members do not appear to be regulated by phosphorylation in the activation segment. It has been suggested that mediation of biological activity by recruitment of a signaling-competent auxiliary protein may occur through an as yet uncharacterized mechanism. The encoded protein has a leucine-rich extracellular domain with a WIF-type Wnt binding region, a single transmembrane domain, and an intracellular tyrosine kinase domain. This protein is involved in stimulating Wnt signaling pathways such as the regulation of axon pathfinding. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>