

# Product datasheet for RC600067

### RYK (NM\_001005861) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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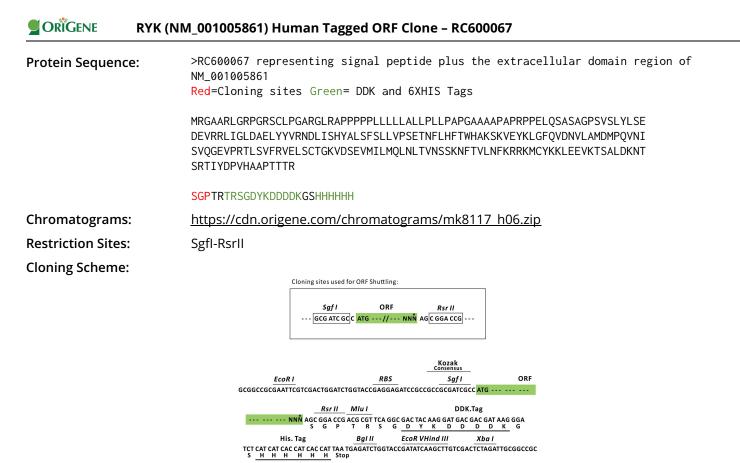
Product Type:	Expression Plasmids
Product Name:	RYK (NM_001005861) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	RYK
Synonyms:	D3S3195; JTK5; JTK5A; RYK1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC600067 representing leader sequence plus the extracellular domain region of NM_001005861 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	GTAATACGACTCACTATAGGGCGGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG CGATCGCC
	ATGCGTGGGGCGGCGGCGGGCGGGCCGGGGCCGGAGTTGCCTCCCGGGGGCCCGCGGCCTGAGGGCCC CGCCGCCGCCGCCGCTGCTGCTTCTGCTTGCGCTGTTGCCGCTGCCGCGCCCGCGCCGC

ATTCTGAAGTTATGATACTAATGCAGCTCAACTTGACAGTAAATTCTTCAAAAAATTTTACCGTCTTAAA TTTTAAACGAAGGAAAATGTGCTACAAAAAACTTGAAGAAGTAAAAACTTCAGCCTTGGACAAAAACACT AGCAGAACTATTTATGATCCTGTACATGCAGCTCCAACCACTACGCGT

AGCGGACCGACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATT AATGAGATCTGGTACCGATATCAAGCTTGTCGACTCTAGA



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ACCN:	NM_001005861
ORF Size:	678 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. <u>More info</u>
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).

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Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001005861.2, 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
MW:	24.9 kDa
Gene Summary:	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]

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