

## Product datasheet for **MC219397**

### **Ryk (NM\_001042607) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ryk (NM_001042607) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ryk
Synonyms:	AW536699; ERK-3; Vik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219397 representing NM\_001042607  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGCGGGCCGGGGCGGCGTCCCGGGAGCGGCGCCTGAGGGCCCCCGCCGCCCGCTGCTGCTGC  
 TGCTGCTGGCGATGCTGCCCGCCGCCCGCCCGGTCCTCGGCCCTGGCCGCGCTCCTGCGGGACCCAG  
 CGTGAGCCTCTACCTGAGCGAGGACGAGGTGCGCCGGCTGCTTGGTCTTGATGCAGAGCTTTACTATGTG  
 AGAAATGACCTCATCAGTCACTACGCTGTCTCTTTAACCTGCTAGTGCCAGTGAGACAACTTCTGTC  
 ACTTCACTTGGCATGCAAAGTCCAAGTTGAATATAAGCTGGGATTCCAAGTAGACAACCTTTGTGGCTAT  
 GGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACCTTATCAGTGTTCGGGTGCGAG  
 CTTTCTGTACCGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTCCT  
 CAAAAATTTTACAGTTTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAACTGAAGAAGTAAAAAC  
 TTCAGCCTTGGACAAAAACACTAGCAGAACTATTTATGACCCTGTCCATGCAGCGCCAACGACTTCCAGC  
 CGTGTGTTTTACATCAGTGTAGGGGTTTGTGTGCAAGTATTTCTTGTAGCAATAATATTAGCCGTTT  
 TGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTCCCAGGGGCT  
 GTCTCAGCCGTACCCAGACGACCCAGTATCTGAGAGCTGACACACCCAAACAATGCAACGCCTATCACC  
 AGTTATCCTACCTTGGCGATAGAGAAGAAGGACTTGGCAAGTGTCACTCTTGGAAAGCCAAAGCCAAGG  
 TGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCTCCAAGAAGGTAATTTTGGGCG  
 TATTTTCCATGGGATTTTAGTAGATGAAAAGATCCAAATAAAGAGAAGCAAACATTTGTAAAAACAGTT  
 AAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCACC  
 ACAGAACTCCTTCTTACTACTGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCATA  
 CATGAATTGGGGGAATCTTAAATTTTCTTCCGCAAGTCAAAATTAGTAGAAGCCAATAATCCACAGGCA  
 ATTTCCAGCAAGATCTGGTCCATATGGCTATTCAGATTGCTGCGGGATGAGCTACCTGGCGAGGAGAG  
 AAGTGATCCATAGAGACCTGGCTGCTAGGAACTGTGTCATCGACGACACTCTTCAAGTCAAGATCACAGA  
 CAATGCCCTTTCCAGAGACTTGTTCCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAGTG  
 AGATGGATGGCTCTGGAAAGTCTGGTTAATAATGAGTTCTCTAGTGCTAGTGACGTGTGGCCTTTGGAG  
 TGACGCTGTGGGAGCTCATGACTCTGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCCGC  
 TTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTGTGTGATGGCC  
 TGTGCTGGGCCTTGGACCCTGAGGAGAGGCCTAAGTTCAGCAGCTGGTCCAGTGCCTCACAGATTCC  
 ACGCTGCCCTGGGAGCCTACGCT**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001042607

**Insert Size:** 1776 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).

**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\\_001042607.1](#), [NP\\_001036072.1](#)

**RefSeq Size:** 3258 bp

**RefSeq ORF:** 1776 bp

**Locus ID:** 20187

**UniProt ID:** [Q01887](#)

**Cytogenetics:** 9 54.72 cM

**Gene Summary:** May be a coreceptor along with FZD8 of Wnt proteins, such as WNT1, WNT3, WNT3A and WNT5A. Involved in neuron differentiation, axon guidance, corpus callosum establishment and neurite outgrowth. In response to WNT3 stimulation, receptor C-terminal cleavage occurs in its transmembrane region and allows the C-terminal intracellular product to translocate from the cytoplasm to the nucleus where it plays a crucial role in neuronal development. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.