

## Product datasheet for **MC227879**

### **Ryk (NM\_001284258) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ryk (NM_001284258) 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:** >MC227879 representing NM\_001284258  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACCTTTATCAGTGTTCGGGTCG  
 AGCTTTCTTGTACCGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTC  
 CTCAAAAAATTTTACAGTTTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAAATTGAAGAAGTAAAA  
 ACTTCAGCCTTGGACAAAAACACTAGCAGAATTTTATGACCCTGTCCATGCAGCGCCAACGACTTCCA  
 CGCGTGTGTTTTACATCAGTGTAGGGGTTTGTGTGCAGTGATTTTCTGTAGCAATAATATTAGCCGT  
 TTTGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTTCACAGGGG  
 CTGTCTCAGCCGTCTACCCAGACGACCCAGTATCTGAGAGCTGACACACCCAACAATGCAACGCCTATCA  
 CCAGTTATCCTACCTTGGGATAGAGAAGAACGACTTGCGAAGTGTCACTCTTCTGGAAGCCAAAGCCAA  
 GGTGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCTCCAAGAAGTACTTTTGGG  
 CGTATTTTCCATGGGATTTTAGTAGATGAAAAGATCCAAATAAGAGAAGCAAACATTTGTAAAAACAG  
 TAAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCA  
 CCACAGAAACCTCTTCTATTACTCATGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCA  
 TACATGAATTGGGGGAATCTTAAATTTTCTCGGCAGTGCAAATTAGTAGAAGCCAATAATCCACAGG  
 CAATTTCCAGCAAGATCTGGTCCATATGGCTATTAGATTGCCTGCGGGATGAGCTACCTGGCGAGGAG  
 AGAAGTGATCCATAGAGACCTGGCTGCTAGGAAGTGTGCATCGACGACACTCTCAAGTCAAGATCACA  
 GACAATGCCCTTTCCAGAGACTGTTTCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAG  
 TGAGATGGATGGCTCTGGAAAGTCTGGTAAATAATGAGTCTCTAGTGCTAGTGACGTGTGGCCTTTGG  
 AGTGACGCTGTGGGAGCTCATGACTCTGGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCC  
 GCTTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTTGTGTGATGG  
 CCTGTTGCTGGCCTTGGACCCTGAGGAGAGGCCCTAAGTTCAGCAGCTGGTCCAGTGCCTCACAGAGTT  
 CCACGCTGCCCTGGGAGCCTACGCT**TGA**

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001284258

**Insert Size:** 1428 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001284258.1](#), [NP\\_001271187.1](#)

**RefSeq Size:** 3136 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 20187

**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 (3) lack an alternate in-frame 5' coding exon and initiates translation at a downstream start codon, compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.