

Product datasheet for **MR217229**

Ryk (NM_001042607) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR217229 representing NM_001042607
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCGCGGGCCGGGGCGGCGTCCCGGGAGCGGCGCCTGAGGGCCCCCGCGCCCGCTGCTGCTGC
 TGCTGCTGGCGATGCTGCCCGCGCGCCCGCGGTCCCGGCCCTGGCCGCGCTCCTGCGGGACCCAG
 CGTGAGCCTCTACCTGAGCGAGGACGAGGTGCGCCGGCTGCTTGGTCTTGATGCAGAGCTTTACTATGTG
 AGAAATGACCTCATCAGTCACTACGCTCTGTCCTTTAACCTGCTAGTGCCAGTGAGACAACTTCTGC
 ACTTCACTTGGCATGCAAAGTCCAAGTTGAATATAAGCTGGGATTCCAAGTAGACAACCTTTGTGGCTAT
 GGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACCTTATCAGTGTTCGGGTGCGAG
 CTTTCTGTACCGGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTCCT
 CAAAAATTTTACAGTTTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAACTGAAGAAGTAAAAAC
 TTCAGCCTTGGACAAAAACACTAGCAGAACTATTTATGACCCTGTCCATGCAGCGCCAACGACTTCCAGC
 CGTGTGTTTTACATCAGTGTAGGGGTTTGTGTGCACTGATATTTCTGTAGCAATAATATTAGCCGTTT
 TGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTCCCAGGGGCT
 GTCTCAGCCGTACCCAGACGACCCAGTATCTGAGAGCTGACACACCCAAACAATGCAACGCCTATCACC
 AGTTATCCTACCTTGGCGATAGAGAAGAAGCAGTTCGGAAGTGTCACTCTTCTGGAAGCCAAAGCCAAGG
 TGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCCTCCAAGAAGGTAATTTTGGGCG
 TATTTTCCATGGGATTTAGTAGATGAAAAGATCCAAATAAAGAGAAGCAAACATTTGTAACAAAGTT
 AAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCACC
 ACAGAAACCTCCTTCTATTACTCATGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCATA
 CATGAATTGGGGGAATCTTAAATTTATTTCTCGCAGTGCAAATTAGTAGAAGCCAATAATCCACAGGCA
 ATTTCCAGCAAGATCTGGTCCATATGGCTATTCAGATTGCTGCGGGATGAGCTACCTGGCGAGGAGAG
 AAGTGATCCATAGAGACCTGGCTGCTAGGAACTGTGTCATCGACGACACTCTTCAAGTCAAGATCACAGA
 CAATGCCCTTTCCAGAGACTTGTTCCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAGTG
 AGATGGATGGCTCTGGAAGTCTGGTTAATAATGAGTTCTCTAGTGCTAGTGACGTGTGGCCTTTGGAG
 TGACGCTGTGGGAGCTCATGACTCTGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCCGC
 TTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTGTGTGATGGCC
 TGTGCTGGGCCTTGGACCCTGAGGAGAGGCCTAAGTTCAGCAGCTGGTCCAGTGCCTCACAGATTCC
 ACGCTGCCCTGGGAGCCTACGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217229 representing NM_001042607
 Red=Cloning site Green=Tags(s)

MRAGRGGVPGSSGLRAPPPLLLLLLAMLPAAPRSPALAAAPAGPSVSLYLSEDEVRRLLGLDAELYYV
 RNDLISHYALSFNLLVPSETNFLHFTWHAKSKVEYKLGQVDFVAMGMPQVNI SAQGEVPTLSVFRVE
 LSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKLEEVKTSALDKNTSRTIYDPVHAAPTST
 RVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDSISSSSSQGLSQPSTQTTQYLRADTPNNATPIT
 SYPTLRIEKNDLRSVTLLEAKAKVKDIAISRERITLKDVLQEGTFGRIFHGILVDEKDPNKEKQTFVKTV
 KDQASEVQVTMMLTESCKLRGLHHRNLLPIHVCIEEGEKPMVVL PYMNVGNLKLFLRQCKLVEANNPQA
 ISQQDLVHMAIQIACGMSYLARREVIHRDLAARNCVIDDTLQVKITDNALSRDLFPMDYHCLGDNENRPV
 RWMALLESVNNFEFSSASDVWAFVTLWELMTLQTPYVIDIDPFEMAAYLKDGYRIAQPINCPDELFAVMA
 CCWALDPEERPKFQQLVQCLTEFHAALGAYV

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_001042607

ORF Size: 1773 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF 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).

- 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

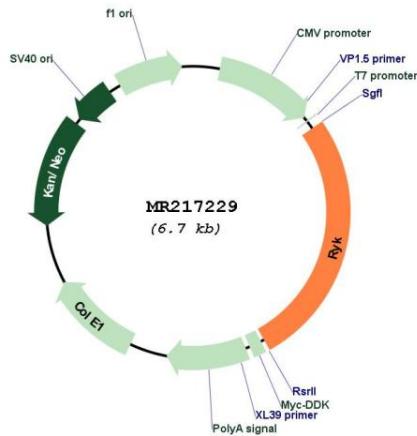
UniProt ID: [Q01887](#)

Cytogenetics: 9 54.72 cM

MW: 66.5 kDa

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]

Product images:



Circular map for MR217229