

Product datasheet for **MR207613**

Ryk (BC032275) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ryk (BC032275) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ryk
Synonyms:	Vik, ERK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207613 representing BC032275
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACATTTATCAGTGTTCGGGTCG
 AGCTTTTCTGTACCGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTC
 CTCAAAAAATTTTACAGTTTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAAAGTTGAAGAAGTAAAA
 ACTTCAGCCTTGGACAAAAACTAGCAGAATTTTATGACCCTGTCCATGCAGCGCCAACGACTTCCA
 CGCGTGTGTTTTACATCAGTGTAGGGGTTTGTGTGCACTGATTTTCTGTAGCAATAATATTAGCCGT
 TTTGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTTCAGGGG
 CTGTCTCAGCCGTCTACCCAGACGACCCAGTATCTGAGAGCTGACACACCCAACAATGCAACGCCTATCA
 CCAGTTATCCTACCTTGGGATAGAGAAGAACGACTTGCGAAGTGTCACTCTTCTGGAAGCCAAAGCCAA
 GGTGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCTCCAAGAAGTACTTTTGGG
 CGTATTTTCCATGGGATTTTAGTAGATGAAAAGATCCAAATAAGAGAAGCAACATTTGTAAAAAACAG
 TAAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCA
 CCACAGAAACCTCTTCTATTACTCATGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCA
 TACATGAATTGGGGAACTCTAAATTTTCTCGGCAGTGCAAATTAGTAGAAGCCAATAATCCACAGG
 CAATTTCCAGCAAGTCTGGTCCATATGGCTATTAGATTGCCTGCGGGATGAGCTACCTGGCGAGGAG
 AGAAGTATCCATAGAGACCTGGCTGCTAGGAAGTGTGTATCGACGACACTCTCAAGTCAAGATCACA
 GACAATGCCCTTTCCAGAGACTGTTTCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAG
 TGAGATGGATGGCTCTGGAAAGTCTGGTTAATAATGAGTCTCTAGTGTAGTACGCTGTGGGCTTTGG
 AGTGACGCTGTGGGAGCTCATGACTCTGGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCC
 GCTTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTTGTGTGATGG
 CCTGTTGCTGGCCCTGGACCCTGAGGAGAGCCCTAAGTTCAGCAGCTGGTCCAGTGCCTCACAGAGTT
 CCACGCTGCCCTGGGAGCCTACGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207613 representing BC032275
 Red=Cloning site Green=Tags(s)

MGMPQVNI SAQGEVPR T LSVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVK
 TSALDKNTSR TIYDPVHAAPTSTRVFIYISVGCCAVIFLVAIILAVLHLHSMKRIELDDSISSASSSQG
 LSPSTQTTQYL RADTPNNATPITSYPTLRIEKNDLR SVTLLEAKAKVKDIAISRERITLKDVLQEGTFG
 RIFHGILVDEKDPNKEKQTFVKTVKDQASEVQVTMMLTESCKLRGLHHRNLLPITHVCIIEGKPMVVL P
 YMNWGNLKLFLRQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHRDLAARNVCIDDTLQVKIT
 DNALSRDLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLGQTPYVIDIDPFEMA
 AYLKDGYRIAQPINCPDELFAVMACCWALDPEERPKFQQLVQCLTEFHAALGAYV

SGPTRRRLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: BC032275

ORF Size: 1425 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: [BC032275](#), [AAH32275](#)

RefSeq Size: 2006 bp

RefSeq ORF: 1427 bp

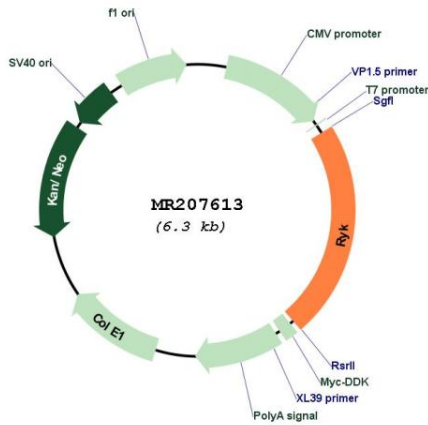
Locus ID: 20187

Cytogenetics: 9 54.72 cM

MW: 73.5 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 MR207613