

Product datasheet for **MG207613**

Ryk (BC032275) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ryk (BC032275) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ryk
Synonyms:	Vik, ERK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207613 representing BC032275
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACCTTTATCAGTGTTCGGGTCC
 AGCTTTCTGTACCGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTC
 CTCAAAAAATTTTACAGTTTTAAATTTTAAACGAAGAAAATGTGCTACAAAAAATTGAAGAAGTAAAA
 ACTTCAGCCTTGACAAAAACACTAGCAGAATTTTATGACCCTGTCCATGCAGCGCCAACGACTTCCA
 CGCGTGTGTTTTACATCAGTGTAGGGTTTGTGTGCAGTGATTTTCTGTAGCAATAATATTAGCCGT
 TTTGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTCCCAGGGG
 CTGTCTCAGCCGTCTACCCAGACGACCCAGTATCTGAGAGCTGACACACCAACAATGCAACGCCTATCA
 CCAGTTATCCTACCTTGGGATAGAGAAGAAGCAGCTTGCAGAGTGCCTCTTCTGGAAGCCAAAGCCAA
 GGTGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCTCCAAGAAGTACTTTTGGG
 CGTATTTCCATGGGATTTTAGTAGATGAAAAGATCCAAATAAAGAGAAGCAAACTTTGTA AAAACAG
 TTAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCA
 CCACAGAAACCTCCTTCTATTACTCATGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCA
 TACATGAATTGGGGGAATCTTAAATTTTCTTCGGCAGTGCAAATAGTAGAAGCCAATAATCCACAGG
 CAATTTCCAGCAAGATCTGGTCCATATGGCTATTCAGATTGCCTGCGGGATGAGCTACCTGGCGAGGAG
 AGAAGTGATCCATAGAGACCTGGCTGTAGGAAGTGTGCATCGACGACACTCTCAAGTCAAGATCACA
 GACAATGCCCTTCCAGAGACTTGTTCCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAG
 TGAGATGGATGGCTCTGGAAAGTCTGGTAAATAATGAGTCTCTAGTGCTAGTGACGTGTGGGCTTTGG
 AGTGACGCTGTGGGAGCTCATGACTCTGGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCC
 GCTTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTTGTGTGATGG
 CCTGTTGCTGGGCTTGGACCCTGAGGAGAGGCCAAGTCCAGCAGCTGGTCCAGTGCCTCACAGAGTT
 CCACGCTGCCCTGGGAGCCTACGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207613 representing BC032275
 Red=Cloning site Green=Tags(s)

MGMPQVNISAQGEVPRTLSPFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVK
 TSALDKNTSRTIYDPVHAAPTTSTRVFYISVGCCAVIFLVAIILAVLHLHSMKRIELDDSISSSSSQG
 LSQPSTQTTQYLADTPNNATPITSYPTLRIEKNDLRSVTLLEAKAKVKDIAISRERITLKDVLQEGTFG
 RIFHGILVDEKDPNKEKQTFVKTVKDQASEVQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVVLP
 YMNWGNLKLFLRQCKLVEANNPQAI SQQDLVHMAIQIACGMSYLARREVIHRDLAARNVIDDTLQVKIT
 DNALSRLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLGQTPYVDIDPFEMA
 AYLKDGYRIAQPINCPDELFAVMACCWALDPEERP KFQQLVQCLTEFHAALGAYY

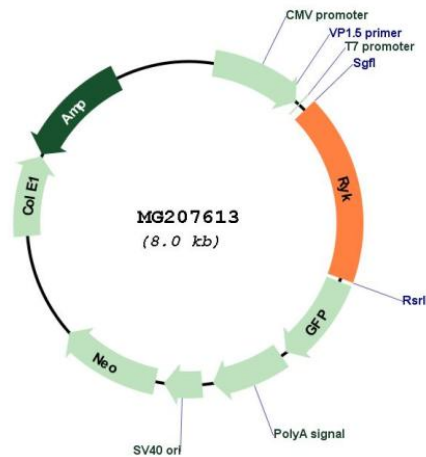
SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


Plasmid Map:

ACCN: BC032275

ORF Size: 1427 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

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]