

Product datasheet for **MR230090**

Ryk (NM_001284258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ryk (NM_001284258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230090 representing NM_001284258
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCATGCCCCAGGTCAATATTTCTGCTCAAGGGGAGTCCCACGCACATTTATCAGTGTTCGGGTCG
 AGCTTTTCTGTACCGCAAAGTCGACTCTGAAGTCATGATTCTAATGCAGCTCAATCTGACAGTGAATTC
 CTCAAAAAATTTTACAGTTTTAAATTTTAAACGAAGGAAAATGTGCTACAAAAAAGTTGAAGAAGTAAAA
 ACTTCAGCCTTGGACAAAAACACTAGCAGAATTTTATGACCCTGTCCATGCAGCGCCAACGACTTCCA
 CGCGTGTGTTTTACATCAGTGTAGGGGTTTGTGTGCACTGATTTTCTGTAGCAATAATATTAGCCGT
 TTTGCACCTTCATAGCATGAAAAGGATTGAACTGGATGACAGCATCAGCGCCAGCAGTAGTTCACAGGGG
 CTGTCTCAGCCGTCTACCCAGACGACCCAGTATCTGAGAGCTGACACACCCAACAATGCAACGCCTATCA
 CCAGTTATCCTACCTTGGGATAGAGAAGAACGACTTGCAGAGTGTCACTCTTCTGGAAGCCAAAGCCAA
 GGTGAAGGATATCGCAATATCCAGAGAAAGGATCACACTGAAAGATGTCTCCAAGAAGTACTTTTGGG
 CGTATTTTCCATGGGATTTTAGTAGATGAAAAGATCCAAATAAGAGAAGCAACATTTGTAAAAAACAG
 TAAAGACCAAGCATCTGAAGTTCAGGTGACGATGATGCTCACCGAGAGCTGCAAGCTTCGAGGTCTGCA
 CCACAGAAACCTCTTCTATTACTCATGTGTGCATAGAAGAAGGAGAAAAGCCCATGGTGGTATTGCCA
 TACATGAATTGGGGAACTCTAAATTTTCTCGGCAGTGCAAAATTAGTAGAAGCCAATAATCCACAGG
 CAATTTCCAGCAAGATCTGGTCCATATGGCTATTAGATTGCCTGCGGGATGAGCTACCTGGCGAGGAG
 AGAAGTGATCCATAGAGACCTGGCTGCTAGGAAGTGTGTCATCGACGACACTCTCAAGTCAAGATCACA
 GACAATGCCCTTTCCAGAGACTGTTTCTATGGACTACCACTGCCTAGGGGACAACGAGAACAGGCCAG
 TGAGATGGATGGCTCTGGAAAGTCTGGTAAATAATGAGTCTCTAGTGCTAGTGACGTGTGGGCTTTGG
 AGTGACGCTGTGGGAGCTCATGACTCTGGGCCAGACGCCCTACGTGGACATCGACCCCTTTGAGATGGCC
 GCTTACCTGAAAGATGGTTACCGAATAGCCAGCCAATCAACTGCCCTGATGAACTGTTTGTGTGATGG
 CCTGTTGCTGGCCCTGGACCCTGAGGAGAGGCCAAGTTCAGCAGCTGGTCCAGTGCCTCACAGAGTT
 CCACGCTGCCCTGGGAGCCTACGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

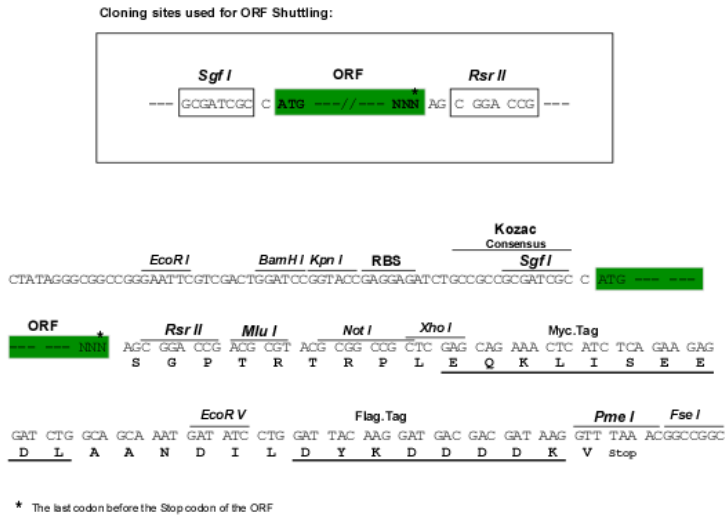
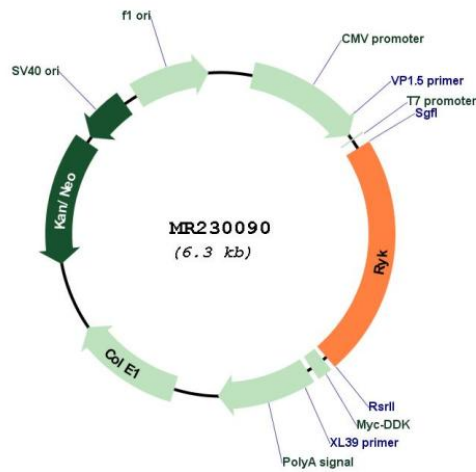
>MR230090 representing NM_001284258
 Red=Cloning site Green=Tags(s)

MGMPQVNISAQGEVPRTLSVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVK
 TSALDKNTRSRTIYDPVHAAPTSTRVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDISASSSSQG
 LSQPSTQTTQYLRADTPNNAATPITSYPTLRIEKNDLRSVTLLEAKAKVKDIAISRERITLKDVLQEGTFG
 RIFHGILVDEKDPNKEKQTFVKTVKDQASEVQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVVL
 YMNWGNLKLFLRQCKLVEANNPQAISQQLVHMAIQIACGMSYLARREVIHRDLAARNCVIDDTLQVKIT
 DNALSRDLFPMDYHCLGDNENRPVRRWMALESLVNNEFSSASDVWAFGVTWELMTLGTQTPYVDIDPFEMA
 AYLKDGYRIAQPINCPDELFAVMACCWALDPEERPQFQQLVQCLTEFHAAALGAYV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_001284258

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:	<ol style="list-style-type: none">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
MW:	54 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]