

Product datasheet for **MG227469**

Kit (NM_001122733) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kit (NM_001122733) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kit
Synonyms:	belly; Bs; c-KI; c-KIT; CD117; Fdc; Gsfs; Gsfsc01; Gsfsc05; Gsfscow3; SC; SCO1; SCO5; SO; SOW3; Ssm; Tr-k; Tr-kit; W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227469 representing NM_001122733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAGGCGCTCGCGGCCTGGGATCTGCTCTGCGTCTGTTGGTCTCTCCGTGGCCAGACAGCCA
 CGTCTCAGCCATCTGCAAGTCCAGGGAGCCGTCTCCGCCATCCATCCATCCAGCACAATCAGAGTTAAT
 AGTTGAAGCTGGCGACACCCCTCAGCCTGACGTGCATTGATCCCGACTTTGTCAGATGGACTTTCAAGACC
 TATTTCAATGAAATGGTTGAGAATAAAAAAATGAATGGATCCAGGAAAAAGCCGAGGCCACTCGCACGG
 GCACATACACGTGCAGCAACAGCAATGGCCTCACGAGTTCTATTTACGTGTTTGTAGAGATCTGCCAA
 ACTTTTCTGGTTGGCCTTCCCTTGTGGCAAAGAAGACAGCGACGCGTGGTCCGCTGCCCTCTGACA
 GACCCACAGGTGTCCAATTATCCCTCATCGAGTGTGATGGGAAATCTCTCCACGACCTGACGTTT
 TCCCAAACCCCAAGGCTGGCATCACCATCAAAACGTGAAGCGCGCTACCACCGGCTCTGTGCCGCTG
 TGCTGCTCAGCGTGACGGTACATGGCTGCATTCTGACAAATTCACCTCAAAGTGGGGCAGCCATCAAG
 GCTATCCCTGTTGTGCTGTGCCTGAAACAAGTCACTCCTTAAGAAAGGGGACACATTTACGGTGGTGT
 GCACCATAAAAGATGTGTCTACATCCGTGAACCTCATGTGGCTAAAGATGAACCTCAGCCTCAGCACAT
 AGCCCAGGTAAGCACAATAGCTGGCACCAGGGGTGACTTCAATTAAGACGCCAGGAGACGCTGACTATC
 AGCTCGGCAAGAGTTGACGATTCTGGAGTGTTCATGTGTTATGCCAATAACTTTGGATCAGCAAATG
 TCACAACAACCTTGAAAGTAGTAGAAAAAGGATTCATCAACATCTCCCCTGTGAAGAACTACAGTATT
 TGTAACCGATGGAGAAAACGTAGATTTGGTTGTTGAATACGAGGCCTACCCAAACCCGAGCACCAGCAG
 TGGATATATGAACAGGACCTCGGCTAACAAAGGAAGGATTATGTCAAATCTGATAACAAAAGCAACA
 TCAGATATGTGAACCAACTTCGCTGACCAGATTAAGGACACAGAAAGGAGGCACTTATACCTTTCTGGT
 GTCCAACCTGATGCCAGTGTCTCCGTGACATTCAACGTTTACGTGAACACAAAACAGAAATCCTGACG
 TACGACAGGCTCATAAATGGCATGCTCCAGTGTGGCAGAGGGATTCCCGAGCCACAATAGATTGGT
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 ATCTGTGTCAACATTTGGAAAACGGTGGTTCAGAGTTCATAGACTCCAGCGTCTTCCGGCACAACGGC
 ACGGTGGAGTGAAGGCCTCAACGATGTGGGCAAGAGTCCGCCTTCTTAACCTTGCATTTAAAGGTA
 ACAACAAGAGCAAATCCAGGCCACACTCTGTTACGCCGCTGCTCATTGGCTTGTGGTCGCAGCTGG
 CGCGATGGGGATCATTGTGATGGTGTACCTACAATAATTTGCAGAAACCCATGTATGAAGTACAATGG
 AAGTTGTGAGGAGATAAATGGAAACAATTATGTTTACATAGACCCGACGCAACTTCCTTATGATCACA
 AATGGGAGTTTCCAGAAACAGGCTGAGTTTGGAAAGACATTGGGAGCTGGTGCCTTCGGGAAGTTCGT
 TGAGGCCACTGCATATGGCTTGATTAAGTCGGATGCTGCCATGACAGTTGCCGTGAAGATGCTCAAACCA
 AGTGCCCATTTAACAGAAAGAGAGGCCCTAATGTCCGAACTGAAGGTCTGAGCTACCTGGGCAATCACA
 TGAATATTGTGAACCTGCTTGGCGCATGCACGGTGGGAGGGCCACCCTGGTCATTACAGAATATTGTTG
 CTATGGTATCTTTGAATTTTTGAGAAGGAAGCGTACTCGTTATTTTCTCAAAGCAAGAAGAGCAG
 GCAGAAGCGGCACTTTAAGAACCTTCTGCACTCAACGGAGCCTTCTGTGACAGTTCAAATGAATATA
 TGGACATGAAGCCTGGCGTTTCTACGTGGTCCAACCAAGACAGACAAGAGGAGATCCGCAAGAATAGA
 CTCGTACATAGAAAGAGACGTGACTCTGCCATCATGGAAGATGACGAGCTGGCTCTGGACCTGGATGAT
 TTGCTGAGCTTCTCCTACCAGGTGGCCAAGGGCATGGCGTTCCTCGCCTCCAAGAATTGATTACAGAG
 ATTTGGCAGCCAGGAATATCCTCCTCACTACGGGCGGATCACAAGATTTGCGATTTCCGGCTAGCCAG
 AGACATCAGGAATGATTCGAATTACGTGGTCAAAGGAAATGCACGACTGCCCGTGAAGTGGATGGCACA
 GAGAGCATTTTCAGCTGCGTGTACACATTTGAAAGTGTGTCTGGTCTATGGGATTTTCTCTGGGAGC
 TCTTCTCCTTAGGAAGCAGCCCCACCCAGGGATGCCGGTCTGACTCCAAGTCTACAAGATGATCAAGGA
 AGGCTTCCGGATGGTCAAGCCGAGCACGCGCTGCCGAAATGTATGACGTATGAAGACTTCTGGGAC
 GCTGACCCCTTGAAGGCAACATTCAAGCAGGTTGTCCAATATTGAGAAGCAGATCTCGGACAGCA
 CCAAGCACATTTACTCCAATTTGGCAAACCTGCAACCCCAACCCAGAGAACCCCGTGGTGGTGGACATTC
 CGTGAGGGTCAACTCGGTGGGCAGCAGCGCTTCTACGCAGCCCTGCTCGTGACGAAGATGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG227469 representing NM_001122733
 Red=Cloning site Green=Tags(s)

MRGARGAWDLLCVLLVLLRGQTATSQPSASPGEPSPPSIHPAQSELIVEAGDTLSLTCIDPDFVRWTFKT
 YFNEMVENKKNEWIQEKAETRGTYSNSNGLTSSIVFVRDPAKFLVGLPLFGKEDSDALVRCPLT
 DPQVSNYSLEICDGKSLPTDLTFVPNPKAGITIKNVKRAYHRLCVRCAAQRDGTWLHSDKFTLKVRAAIK
 AIPVVSVPETSHLLKKGDTFTVVCTIKDVSTSVNSMWLKMNPQPHIAQVKHNSWHRGDFNYERQETLTI
 SSARVDDSGVFMCIYANNTFGSANVTTTLKVVKEGFINISPVKNTTFVFTDGENVDLVVEYEAYPEHQ
 WIYMNRTSANKGKDYVKSNDKSNIRYVNLRLTRLKGTGGTYTFLVSNDSASVTFNYYVNTKPEILT
 YDRLINGMLQCVAEGFPEPTIDWYFCTGAEQRCTTPVSPVDVQVQVSVSPFGKLVVQSSIDSSVFRHNG
 TVECKASNDVGKSSAFFNFAFKGNKEQIQAHTLFTPLLIGFVVAAGAMGIIVMLTYKYLQKPMYEVQW
 KVVEEINGNYYIDPTQLPYDHKWEFPRNRLSFGKTLGAGAFGVVEATAYGLIKSDAAMTVAVKMLKP
 SAHLTEREALMSELKVL SYLGNHMNI VNLGACTVGGPTLVITEYCCYGDLLNFLRRKRDSFIFSKQEEQ
 AEAALYKNLLHSTEPSCDSSNEYMDMPGVSYVPTKTKRRSARIDSYIERDVTPAIMDELALDLDLDD
 LLSFSYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIRNDSNYVVKGNARLPVKWMAP
 ESIFSCVYTFESDVWSYGFILWELFSLGSSPYGMPVDSKFYKMIKEGFRMVSPHAPAEMYDVMKTCWD
 ADPLKRPTFKQVVQLIEKQISDSTKHIYSNLANCPNPENPVVDHSDVRVNSVSGSSASSTQPLLVEDA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001122733

ORF Size: 2937 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001122733.1](#), [NP_001116205.1](#)

RefSeq Size: 5205 bp

RefSeq ORF: 2940 bp

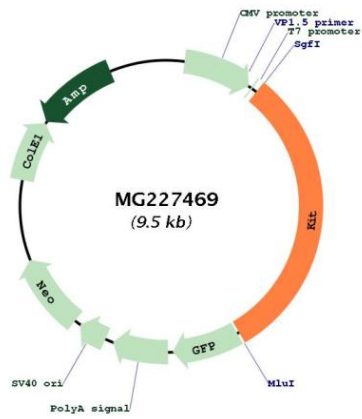
Locus ID: 16590

UniProt ID: [P05532](#)

Cytogenetics: 5 39.55 cM

Gene Summary: The c-Kit proto-oncogene is the cellular homolog of the transforming gene of a feline retrovirus (v-Kit). The c-kit protein includes characteristics of a protein kinase transmembrane receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MG227469