

Product datasheet for **MR227469**

CD117 (NM_001122733) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD117 (NM_001122733) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD117
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227469 representing NM_001122733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCGCTCGGGCGCCTGGGATCTGCTCTGCGTCTGTTGGTCTCTCCGTGGCCAGACAGCCA
 CGTCTCAGCCATCTGCAAGTCCAGGGAGCCGTCTCCGCCATCCATCCATCCAGCACAATCAGAGTTAAT
 AGTTGAAGCTGGCGACACCCCTCAGCCTGACGTGCATTGATCCCGACTTTGTGAGATGGACTTTCAAGACC
 TATTTCAATGAAATGGTTGAGAATAAAAAAATGAATGGATCCAGGAAAAAGCCGAGGCCACTCGCACGG
 GCACATACACGTGCAGCAACAGCAATGGCCTCACGAGTTCTATTTACGTGTTTGTAGAGATCTGCCAA
 ACTTTTCTGGTTGGCCTTCCCTTGTGGCAAAGAAGACAGCGACGCGTGGTCCGCTGCCCTCTGACA
 GACCCACAGGTGTCCAATTATCCCTCATCGAGTGTGATGGGAAATCTCTCCCACGGACTGACGTTT
 TCCCAAACCCCAAGGCTGGCATCACCATCAAAAACGTGAAGCGCGCTACCACCGGCTCTGTGCCGCTG
 TGCTGCTCAGCGTGACGGTACATGGCTGCATTCTGACAAATTCACCTCAAAGTGGGGCAGCCATCAAG
 GCTATCCCTGTTGTGCTGTGCCTGAAACAAGTCACTCCTTAAGAAAGGGGACACATTTACGGTGGTGT
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 AGCCCAGGTAAGCACAATAGCTGGCACCAGGGGTGACTTCAATTATGAACGCCAGGAGACGCTGACTATC
 AGCTCGGCAAGAGTTGACGATTCTGGAGTGTTCATGTGTTATGCCAATAACTTTTGGATCAGCAAATG
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 TGTAACCGATGGAGAAAACGTAGATTTGGTTGTGAATACGAGGCCTACCCAAACCCGAGCACCAGCAG
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 AGTGCCCATTTAACAGAAAGAGAGGCCCTAATGTCCGAACTGAAGGTCTGAGCTACCTGGGCAATCACA
 TGAATATTGTGAACCTGCTTGGCGCATGCACGGTGGGAGGGCCACCCTGGTCAATACAGAATATTGTTG
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 GCTGACCCCTTGAAGGCAACATTCAAGCAGGTTGTCCAATTTATTGAGAAGCAGATCTCGGACAGCA
 CCAAGCACATTTACTCCAATTTGGCAAACCTGCAACCCCAACCCAGAGAACCCCGTGGTGGTGGACATTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227469 representing NM_001122733
 Red=Cloning site Green=Tags(s)

MRGARGAWDLLCVLLVLLRGQTATSQPSASPGEPSPPSIHPAQSELIVEAGDTLSLTCIDPDFVRWTFKT
 YFNEMVENKKNEWIQEKAETRGTGTYTCSNSNGLTSSIVFVVRDPAKFLVGLPLFGKEDSDALVRCPLT
 DPQVSNYSLIECDGKSLPTDLTFVPNPKAGITIKNVKRAYHRLCVRCAAQRDGTWLHSDKFTLKVRAAIK
 AIPVVSVPETSHLLKKGDTFTVCTIKDVSTSVNSMWLKMNPQPHIAQVKHNSWHRGDFNYERQETLTI
 SSARVDDSGVFMCIYANNTFGSANVTTTLKVVKEGFINISPVKNTTVFVTDGENVDLVVEYEAYPEHQ
 WIYMNRTSANKGKDYVKSNDKSNIRYVNLRLTRLKGTGGTYTFLVSNDSASVTFNVYVNTKPEILT
 YDRLINGMLQCVAEGFPEPTIDWYFCTGAEQRCTTPVSPVDVQVQVNSVSPFGKLVVQSSIDSSVFRHNG
 TVECKASNDVGKSSAFFNFAFKGNKEQIQAHTLFTPLLIGFVVAAGAMGIIVMLTYKYLQKPMYEVQW
 KVVEEINGNNYVYIDPTQLPYDHKWEFPRNLSFGKTLGAGAFGKVEATAYGLIKSDAAMTVAVKMLKP
 SAHLTEREALMSELKVL SYLGNHMNI VNLGACTVGGPTLVITEYCCYDGLLNLRRKRDSFIFSKQEEQ
 AEAALYKNLLHSTEPSCDSSNEYMDMPGVSYVPTKTKRRSARIDSYIERDVTPAIMDELALDLDLDD
 LLSFSYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIRNDSNYVVKGNARLPVKWMAP
 ESIFSCVYTFESDVWSYGFILWELFSLGSSPYGMPVDSKFKYKMIKEGFRMVSPHAPAEMYDVMKTCWD
 ADPLKRPTFKVQVQLIEKQISDSTKHIYSNLANCPNPENPVVDHSSVRVNSVSGSSASSTQPLLVEDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

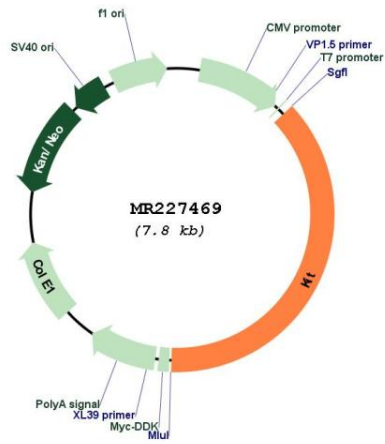


ACCN: NM_001122733

ORF Size: 2937 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001122733.1 , NP_001116205.1
RefSeq Size:	5205 bp
RefSeq ORF:	2940 bp
Locus ID:	16590
UniProt ID:	P05532
Cytogenetics:	5 39.55 cM
MW:	109.8 kDa
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 MR227469