OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC222893

CD117 (NM_021099) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD117 (NM_021099) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kit
Synonyms:	belly; Bs; c-Kl; c-KIT; CD117; Fdc; Gsfs; Gsfsco1; Gsfsco5; Gsfsow3; 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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Fully Sequenced ORF:

>MC222893 representing NM_021099
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGCGCTCGCGGCGCCTGGGATCTGCTCTGCGTCCTGTTGGTCCTGCTCCGTGGCCAGACAGCCA
CGTCTCAGCCATCTGCAAGTCCAGGGGAGCCGTCTCCGCCATCCATCCATCCAGCACAATCAGAGTTAAT
AGTTGAAGCTGGCGACACCCTCAGCCTGACGTGCATTGATCCCGACTTTGTCAGATGGACTTTCAAGACC
TATTTCAATGAAATGGTTGAGAATAAAAAAAATGAATGGATCCAGGAAAAAGCCGAGGCCACTCGCACGG
GCACATACACGTGCAGCAACAGCAATGGCCTCACGAGTTCTATTTACGTGTTTGTTAGAGATCCTGCCAA
ACTTTTCCTGGTTGGCCTTCCCTTGTTTGGCAAAGAAGACAGCGACGCGCTGGTCCGCTGCCCTCTGACA
GACCCACAGGTGTCCAATTATTCCCTCATCGAGTGTGATGGGAAATCTCTCCCCACGGACCTGACGTTTG
TCCCAAACCCCAAGGCTGGCATCACCATCAAAAACGTGAAGCGCGCCTACCACCGGCTCTGTGTCCGCTG
TGCTGCTCAGCGTGACGGTACATGGCTGCATTCTGACAAATTCACCCTCAAAGTGCGGGCAGCCATCAAG
GCTATCCCTGTTGTGTCTGTGCCTGAAACAAGTCACCTCCTTAAGAAAGGGGACACATTTACGGTGGTGT
GCACCATAAAAGATGTGTCTACATCCGTGAACTCCATGTGGCTAAAGATGAACCCTCAGCCTCAGCACAT
AGCCCAGGTAAAGCACAATAGCTGGCACCGGGGTGACTTCAATTATGAACGCCAGGAGACGCTGACTATC
AGCTCGGCAAGAGTTGACGATTCTGGAGTGTTCATGTGTTATGCCAATAATACTTTTGGATCAGCAAATG
TCACAACAACCTTGAAAGTAGTAGAAAAAGGATTCATCAACATCTCCCCTGTGAAGAACACTACAGTATT
TGTAACCGATGGAGAAAACGTAGATTTGGTTGTTGAATACGAGGCCTACCCCAAACCCGAGCACCAGCAG
TGGATATATATGAACAGGACCTCGGCTAACAAAGGGAAGGATTATGTCAAATCTGATAACAAAAGCAACA
TCAGATATGTGAACCAACTTCGCCTGACCAGATTAAAAGGCACAGAAGGAGGCACTTATACCTTTCTGGT
GTCCAACTCTGATGCCAGTGCTTCCGTGACATTCAACGTTTACGTGAACACAAAACCAGAAATCCTGACG
TACGACAGGCTCATAAATGGCATGCTCCAGTGTGTGGCAGAGGGATTCCCGGAGCCCACAATAGATTGGT
ATTTTTGTACAGGAGCAGAGCAAAGGTGTACCACTCCTGTCTCACCAGTGGACGTACAGGTCCAGAATGT
ATCTGTGTCACCATTTGGAAAACTGGTGGTTCAGAGTTCCATAGACTCCAGCGTCTTCCGGCACAACGGC
ACGGTGGAGTGTAAGGCCTCCAACGATGTGGGCAAGAGTTCCGCCTTCTTTAACTTTGCATTTAAAGAGC
AAATCCAGGCCCACACTCTGTTCACGCCGCTGCTCATTGGCTTTGTGGTTGCAGCTGGCGCGATGGGGAT
CATTGTGATGGTGCTCACCTACAAATATTTGCAGAAACCCATGTATGAAGTACAATGGAAGGTTGTCGAG
GAGATAAATGGAAACAATTATGTTTACATAGACCCGACGCAACTTCCTTATGATCACAAATGGGAGTTTC
CCAGAAACAGGCTGAGTTTTGGAAAGACATTGGGAGCTGGTGCCTTCGGGAAGGTCGTTGAGGCCACTGC
ATATGGCTTGATTAAGTCGGATGCTGCCATGACAGTTGCCGTGAAGATGCTCAAACCAAGTGCCCATTTA
ACAGAAAGAGAGGCCCTAATGTCGGAACTGAAGGTCCTGAGCTACCTGGGCAATCACATGAATATTGTGA
ACCTGCTTGGCGCATGCACGGTGGGAGGGCCCACCCTGGTCATTACAGAATATTGTTGCTATGGTGATCT
TTTGAATTTTTTGAGAAGGAAGCGTGACTCGTTTATTTTCTCAAAGCAAGAAGAGCAGGCAGAAGCGGCA
CTTTATAAGAACCTTCTGCACTCAACGGAGCCTTCCTGTGACAGTTCAAATGAATATATGGACATGAAGC
CTGGCGTTTCCTACGTGGTGCCAACCAAGACAGACAAGAGGAGATCCGCAAGAATAGACTCGTACATAGA
AAGAGACGTGACTCCTGCCATCATGGAAGATGACGAGCTGGCTCTGGACCTGGATGATTTGCTGAGCTTC
TCCTACCAGGTGGCCAAGGGCATGGCGTTCCTCGCCTCCAAGAATTGTATTCACAGAGATTTGGCAGCCA
GGAATATCCTCCTCACTCACGGGCGGATCACAAAGATTTGCGATTTCGGGCTAGCCAGAGACATCAGGAA
TGATTCGAATTACGTGGTCAAAGGAAATGCACGACTGCCCGTGAAGTGGATGGCACCAGAGAGCATTTTC
AGCTGCGTGTACACATTTGAAAGTGATGTCTGGTCCTATGGGATTTTCCTCTGGGAGCTCTTCTCCTTAG
GAAGCAGCCCCTACCCAGGGATGCCGGTCGACTCCAAGTTCTACAAGATGATCAAGGAAGGCTTCCGGAT
GGTCAGCCCGGAGCACGCGCCTGCCGAAATGTATGACGTCATGAAGACTTGCTGGGACGCTGACCCCTTG
AAAAGGCCAACATTCAAGCAGGTTGTCCAACTTATTGAGAAGCAGATCTCGGACAGCACCAAGCACATTT
ACTCCAACTTGGCAAACTGCAACCCCAACCCAGAGAACCCCGTGGTGGTGGACCATTCCGTGAGGGTCAA
CTCGGTGGGCAGCAGCGCCTCTTCTACGCAGCCCCTGCTCGTGCACGAAGATGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_021099
Insert Size:	2928 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
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_021099.3, NP_066922.2
RefSeq Size:	5189 bp
RefSeq ORF:	2928 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] Transcript Variant: This variant (2) has an alternate splice site in the CDS and encodes a shorter isoform, as compared to variant 1.