

## Product datasheet for **MC222941**

### CD117 (NM\_001122733) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD117 (NM_001122733) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC222941 representing NM\_001122733  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGAGGCGCTCGGGCGCCTGGGATCTGCTCTGCGTCTGTTGGTCTCTCCGTGGCCAGACAGCCA  
 CGTCTCAGCCATCTGCAAGTCCAGGGGAGCCGTCTCCGCCATCCATCCATCCAGCACAATCAGAGTTAAT  
 AGTTGAAGCTGGCGACACCCCTCAGCCTGACGTGCATTGATCCCGACTTTGTCCAGATGGACTTTCAAGACC  
 TATTTCAATGAAATGGTTGAGAATAAAAAAATGAATGGATCCAGGAAAAAGCCGAGGCCACTCGCACGG  
 GCACATACACGTGCAGCAACAGCAATGGCCTCACGAGTTCTATTTACGTGTTTGTAGAGATCTGCCAA  
 ACTTTTCTGGTTGGCCTTCCCTTGTGGCAAAGAAGACAGCGACGCGTGGTCCGCTGCCCTCTGACA  
 GACCCACAGGTGCCAATTATCCCTCATCGAGTGTGATGGGAAATCTCTCCACGACCTGACGTTTG  
 TCCCAAACCCCAAGGCTGGCATCACCATCAAAAACGTGAAGCGCGCTACCACCGGCTCTGTGTCGGCTG  
 TGCTGCTCAGCGTGACGGTACATGGCTGCATTCTGACAAATTCACCTCAAAGTGGGGCAGCCATCAAG  
 GCTATCCCTGTTGTGCTGTGCCTGAAACAAGTCACTCCCTAAGAAAGGGGACACATTTACGGTGGTGT  
 GCACCATAAAAGATGTGTCTACATCCGTGAACCTCATGTGGCTAAAGATGAACCTCAGCCTCAGACAT  
 AGCCCAGGTAAGCACAATAGCTGGCACCAGGGGTGACTTCAATTATGAACGCCAGGAGACGCTGACTATC  
 AGCTCGGCAAGAGTTGACGATTCTGGAGTGTTCATGTGTTATGCCAATAACTTTTGGATCAGCAAATG  
 TCACAACAACCTTGAAAGTAGTAAAAAGGATTCATCAACATCTCCCCTGTGAAGAACACTACAGTATT  
 TGTAACCGATGGAGAAAACGTAGATTTGGTTGTGAATACGAGGCCTACCCAAACCCGAGCACCAGCAG  
 TGGATATATGAACAGGACCTCGGCTAACAAAGGAAGGATTATGTCAAATCTGATAACAAAAGCAACA  
 TCAGATATGTGAACCAACTTCGCTGACCAGATTAAGGCACAGAAAGGAGGCACTTATACCTTTCTGGT  
 GTCCAACCTGATGCCAGTGTTCGCTGACATTCAACGTTTACGTGAACACAAAACAGAAATCCTGACG  
 TACGACAGGCTCATAAATGGCATGCTCCAGTGTGTGGCAGAGGGATTCCCGGAGCCACAATAGATTGGT  
 ATTTTTGTACAGGAGCAGAGCAAAGGTGTACCACTCCTGTCTCACCAGTGGACGTACAGGTCCAGAATGT  
 ATCTGTGTACCAATTTGGAAAACGGTGGTTCCAGATTCCATAGACTCCAGCGTCTTCCGGCACAACGGC  
 ACGGTGGAGTGAAGGCCTCAACGATGTGGGCAAGAGTCCGCCTTCTTAACTTTGCATTTAAAGGTA  
 ACAACAAGAGCAAATCCAGGCCACACTCTGTTACGCCGCTGCTCATTGGCTTTGTGGTTGCAGCTGG  
 CGCGATGGGGATCATTGTGATGGTGTACCTACAATAATTTGCAGAAACCCATGTATGAAGTACAATGG  
 AAGTTGTGAGGAGATAAATGGAACAATTATGTTTACATAGACCCGACGCAACTTCTTATGATCACA  
 AATGGGAGTTTCCAGAAACAGGCTGAGTTTGGAAAGACATTGGGAGCTGGTGCCTTCCGGGAAGTCTG  
 TGAGGCCACTGCATATGGCTTGATTAAGTCGGATGCTGCCATGACAGTTGCCGTGAAGATGCTCAAACCA  
 AGTGCCCATTTAACAGAAAGAGAGGCCCTAATGTCCGAACTGAAGGTCTGAGCTACCTGGGCAATCACA  
 TGAATATTGTGAACCTGCTTGGCGCATGCACGGTGGGAGGGCCACCCTGGTCATTACAGAATATTGTTG  
 CTATGGTGATCTTTGAATTTTTGAGAAGGAAGCGTACTCGTTTATTTTCTCAAAGCAAGAAGAGCAG  
 GCAGAAGCGGCACTTTAAGAACCTTCTGCACTCAACGGAGCCTTCCGTGACAGTTCAAATGAATATA  
 TGGACATGAAGCCTGGCCTTCTACGTGGTCCAACCAAGACAGACAAGAGGAGATCCGCAAGAATAGA  
 CTCGTACATAGAAAGAGACGTGACTCCTGCCATCATGGAAGATGACGAGCTGGCTCTGGACCTGGATGAT  
 TTGCTGAGCTTCTCCTACCAGGTGGCCAAGGGCATGGCGTTCTCGCCTCAAAGAATTGATTACAGAG  
 ATTTGGCAGCCAGGAATATCCTCCTCACTACGGGCGGATCACAAGATTTGCGATTTCCGGCTAGCCAG  
 AGACATCAGGAATGATTGCAATTACGTGGTCAAAGGAAATGCACGACTGCCCGTGAAGTGGATGGCACCA  
 GAGAGCATTTTACAGTGCCTGTACACATTTGAAAGTGTGTCTGGTCTATGGGATTTTCTCTGGGAGC  
 TCTTCTCCTTAGGAAGCAGCCCCACCCAGGGATGCCGGTCTGACTCCAAGTTCTACAAGATGATCAAGGA  
 AGGCTTCCGGATGGTCAAGCCGAGCAGCGCCTGCCGAAATGTATGACGTATGAAGACTTCTGGGAC  
 GCTGACCCCTTGAAGGCAACATTCAAGCAGGTTGTCCAATTTATTGAGAAGCAGATCTCGGACAGCA  
 CCAAGCACATTTACTCCAATTTGGCAAACCTGCAACCCCAACCCAGAGAACCCCGTGGTGGTGGACATTC  
 CGTGAGGGTCAACTCGGTGGGCAGCAGCGCCTTCTACGAGCCCTGCTCGTGACGAAGATGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja2273_b06.zip">https://cdn.origene.com/chromatograms/ja2273_b06.zip</a>
<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001122733
<b>Insert Size:</b>	2940 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001122733.1</a> , <a href="#">NP_001116205.1</a>
<b>RefSeq Size:</b>	5205 bp
<b>RefSeq ORF:</b>	2940 bp
<b>Locus ID:</b>	16590
<b>UniProt ID:</b>	<a href="#">P05532</a>
<b>Cytogenetics:</b>	5 39.55 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>