

Product datasheet for **MC204279**

Kitl (NM_013598) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kitl (NM_013598) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kitl
Synonyms:	blz; Clo; Con; contrasted; Gb; Kitlg; Mgf; SCF; SF; Sl; SLF
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC011322
 CGAGAGTGCCGCGGGAAAGCAACGGCCAAGGACGGGGCGCTGCGTTCGAGCTACCCAATGCTGGGACTAT
 CTGCAGCCGCTGCTGGTGAATATGCTGGAGCTCCAGAACAGCTAAACGGAGTCGCCACACCCGCTGCCTG
 GGCTGGATCGCAGCGCTGCCTTTCTTATGAAGAAGACACAACTTGATTATCACTTGCATTTATCTCC
 AACTGCTCCTATTTAATCCTCTCGTCAAAACCAAGGAGATCTGCGGGAATCCTGTGACTGATAATGTAAA
 AGACATTACAAAACCTGGTGGCAAATCTTCAAATGACTATATGATAACCCCAACTATGTCGCCGGGATG
 GATGTTTTGCCTAGTCATTGTTGGCTACGAGATATGGTAATACAATTATCACTCAGCTTGACTACTCTTC
 TGGACAAGTTCTCAAATATTTCTGAAGGCTTGAGTAATTACTCCATCATAGACAAAACCTGGGAAAAATAGT
 GGATGACCTCGTGTATGCATGGAAGAAAACGCACCGAAGAATATAAAAGAATCTCCGAAGAGGCCAGAA
 ACTAGATCCTTTACTCCTGAAGAATTTCTTAGTATTTTCAATAGATCCATTGATGCCTTTAAGGACTTTA
 TGGTGGCATCTGACACTAGTGACTGTGTCTCTTCAACATTAGGTCCCAGAAAAGATTCCAGAGTCAG
 TGTCAAAAACCATTTATGTTACCCCTGTTGCAGCCAGCTCCCTTAGGAATGACAGCAGTAGCAGTAAT
 AGGAAAGCTGCAAAGTCCCCTGAAGACTCGGCCATAATGGACAGCCATGGCATTGCCGGCTCTCATT
 CGCTTGAATTTGGCTTTGCTTTTGGAGCCTTACTGGAAGAAGAAACAGTCAAGTCTTACAAGGGCAGT
 TGAATAATACAGATTAATGAAGAGGATAATGAGATAAGTATGTTGCAACAGAAAAGAGAGAATTTCAA
 GAGGTGTAATTTGGACGTATCAACATTGTTACCTTCGCACAGTGGCTGGTAACAGTTTCATGTTTGCCTC
 ATAAATGAAGCAGCCTTAAACAAATTCCTATTCTGTCTCAAGTGACAGACCTCACCTTACCTGTTCTTG
 CTACCCGTGACCTTGTGTGGATGATTGAGATGTTGGAGCAGAGTCTTCGCTGTGAACCTGCACTGAAT
 TATCATCTGTAAGAAAAATCTGCACGGAGCAGGACTCTGGAGGTTTTGCAAGTGATGATAGGGACAAGA
 ACATGTGTCCAGTCTACTTGCACCGTTTGCATGGCTTGGGAAATGCTGAGTGTGAAAACCCACCCAGC
 TTTGTTCTTCAGTCACAACCTGCAGCCTGTCGTTAATTTAGTCTCTGCAAGTAGATTTGAGCCTGGATG
 GTGGGGGAATTTTTTTTTCACAAAGGGATGTAGAAAACAATTTTAAAAAACAACAAAACAATAACT
 CCGTAGCATCAGCCACTGTATGGAGTTGAAAGCCATGGGGAGTATTTTTTTTTTTTCTTTTGGAGCAGGCTC
 ATCCGCTCTGTAGTTAATGATTAAAGGAGAGCAGCCTAAATGTAAGCTCCTCCTGACAGAAGTCATGGTGC
 ACCGTATCCTACTAGAGAATGGACATGGGTAGCTAGTTCTATCCATGCGGTGGAGCCCATGCTGAACTG
 CAGCATAATACCACGGCATATGGAAGACTCTCCAGAAAAGTCTTACAGGAGAAAATGTCAACGTGGAC
 CAGTGAAGAACATGCCAAGGAAGACATTTGGCCATCGTGAAGCCAGTCTTTCCCTTGACAGTCACTC
 TAGCGTGTGAAATCGTGTTTGCAATAGTATAATGTGACATGCTTATGTTTTGAACTACTGCAGCGGTA
 TGAAGACAGATATGGGAGGAATGCTGAATGTGCAAGGGTCTCCCCACCCACCCCTTTTATTTTAA
 TCCTGATGGGAGAGAATAAGAACGGATGATGGTATTTAGTACCTAAGATTAGATGCGAGTACTTTATTCT
 AATACGGGAGTTGCAAATAAGTCACTCATATTCTAAAAGAATGCAAGGACTCGGAAAACATTAGTTATT
 TGCAGTATAACCGTTATCTCTTGAACATAGCCACTTATTTAAATCGGGCACTCTGTATTCAATTAAGGTT
 TATGAAACGAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_013598

Insert Size: 822 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC011322](#), [AAH11322](#)

RefSeq Size: 2192 bp

RefSeq ORF: 822 bp

Locus ID: 17311

UniProt ID: [P20826](#)

Cytogenetics: 10 51.4 cM

Gene Summary: Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. Promotes phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5. KITLG/SCF and KIT promote activation of PLCG1, leading to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).