

Product datasheet for MR203650L3

Kitl (NM 013598) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Kitl (NM 013598) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Kitl

Synonyms: blz; Clo; Con; contrasted; Gb; Kitlg; Mgf; SCF; SF; SI; SLF

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR203650).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_013598

ORF Size: 819 bp



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Kitl (NM_013598) Mouse Tagged Lenti ORF Clone - MR203650L3

OTI Disclaimer: 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 013598.1, NP 038626.1

 RefSeq Size:
 5449 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

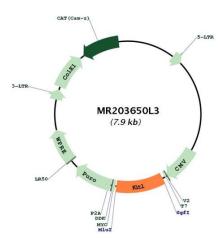
activation of PLCG1, leading to the production of the cellular signaling molecules

diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other

cytokines, probably interleukins.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR203650L3