

Product datasheet for MC223148

Flt3 (NM_010229) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flt3 (NM_010229) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Flt3
Synonyms:	B230315G04; CD135; Flk-2; Flk2; Flt-3; Ly72; wmf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223148 representing NM_010229 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGCGTTGGCGCAGCGCAGCGACCGCGGCTGCTGCTGCTTGTGTTTTGTCAGTAATGATTCTTG
AGACCGTTACAAACCAAGACCTGCCTGTGATCAAGTGTGTTTTAATCAGTCATGAGAACAATGGCTCATC
AGCGGGAAAGCCATCATCGTACCGAATGGTGGCAGGATCCCCAGAAGACCTCCAGTGTGCCCGAGGCGC
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GCACTTTGATTTACAAAACAGAGGAATCGTTTCCATGGCCATCTTGAACGTGACAGAGACCCAGGCAGGA
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CTAGAAATGCACTGGGCCGGAATGCACCAAGCTGTTACCATAGATCTAAACCAGGCTCCTCAGAGCAC
ACTGCCACAGTTATTCTGAAAGTGGGGAAACCCTTGTGGATCAGGTGTAAGGCCATCCATGTGAACCAT
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AAAGTGTGGCCAGTGGGTGTCGAGCAGTACTCTAAATATGAGTGAGGCCGGGAAAGGGCTTCTGGTCA
AATGCTGTGCGTACAATTCTATGGGCACGTCTTGCGAAACCATCTTTTAAACTCACCAGGCCCTTCCC
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CCC GCCCTTGATCAGCTCTCAGGGTCAATGGGAATTTAATTCATTCTGAAGATGAGATTGAATATGAA
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TTGCGTACCAAGTGGCCAAAGGCATGGAATTCCTGGAGTCAAGTCGTGTGTCCACAGAGACCTGGCAGC
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GAGGCAGGCTCAGAGCCGCCATCGCCACAGGCCAGGTGAAGATTCACGGAGAAAAGTTAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1654_e04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_010229

Insert Size: 3003 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: [NM_010229.2](#), [NP_034359.2](#)

RefSeq Size: 3664 bp

RefSeq ORF: 3003 bp

Locus ID: 14255

UniProt ID: [Q00342](#)

Cytogenetics: 5 G3

Gene Summary: Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. Activation of wild-type FLT3 causes only marginal activation of STAT5A or STAT5B. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways.[UniProtKB/Swiss-Prot Function]