

## Product datasheet for **RG214232**

### FLT4 (NM\_002020) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FLT4 (NM_002020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLT4
Synonyms:	CHTD7; FLT-4; FLT41; LMPH1A; LMPHM1; PCL; VEGFR-3; VEGFR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214232 representing NM_002020 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATCGACGGGGCGCCGCGCTGTGCCTGCGACTGTGGCTGCCTGGGACTCCTGGACGGCCTGGTGAAGT  
GCTACTCCATGACCCCCCGACCTTGAACATCACGGAGGAGTCACACGTCATCGACACCGGTGACAGCCT  
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GCGGTGACCACGCAGGATGCCGTGAACCCCATCGAGAGCCTGGACACCTGGACCCGAGTTTGTGGAGGGAA  
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TTGAGCAGATAGAGAGCAGGCATAGACAAGAAAGCGGCTTCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

**Protein Sequence:** >RG214232 representing NM\_002020  
 Red=Cloning site Green=Tags(s)

MQRGAALCLRLWLCGLLDGLVSGYSMTPTLNITEESHVIDTGDLSISCRGQHLEWAWPGAQEAPAT  
 GDKDSED TG VVRDCEGTDARPYCKVLLLEHVHANDTGSYVCYKYIKARIEGTTAASSYVFRDFEQPFI  
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 GDQDFLSNPFLVHITGNELYDIQLLPRKSLLELVGEKLVNCTVWAEFNSGVTFDWDYPGKQAERGKWP  
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 LFARFSKTEGGARRASPDQEAEDLWLSPLTMEDLVCYSFQVARGMEFLASRCKIHRDLAARNILLSV  
 VKICDFGLARDIYKDPDYVRKGSARLPLKWPAPESIFDKVYTTQSDVWSFGVLLWEIFSLGASPYGVQI  
 NEEFCQRLRDGTRMAPELATPAIRRIMLNCWSDPKARPAFSELVEILDLLQGRGLQEEEEVCMAPRS  
 SQSSEEGSFSQVSTMALHIAQADAEDSPPSLQRHSLAARYYNWVSFPGCLARGAETRGSRMKTFEEFPM  
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TRTRPLE - GFP Tag - V

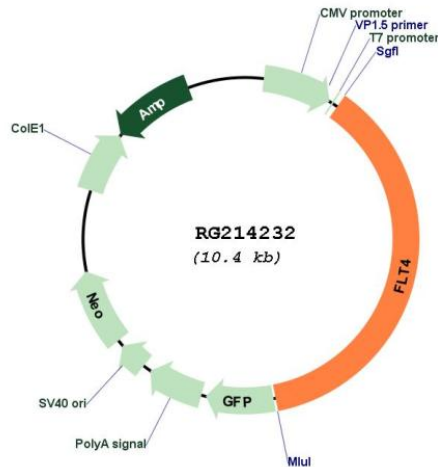
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_002020

ORF Size: 3894 bp

**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\\_002020.5](#)

RefSeq Size: 4534 bp

RefSeq ORF: 3897 bp

Locus ID: 2324

UniProt ID: [P35916](#)

Cytogenetics: 5q35.3

<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IGc2, IG
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Focal adhesion
<b>Gene Summary:</b>	This gene encodes a tyrosine kinase receptor for vascular endothelial growth factors C and D. The protein is thought to be involved in lymphangiogenesis and maintenance of the lymphatic endothelium. Mutations in this gene cause hereditary lymphedema type IA. [provided by RefSeq, Jul 2008]