

Product datasheet for **RN214542**

Flrt3 (NM_001126291) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flrt3 (NM_001126291) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Flrt3
Synonyms:	RGD1566005
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214542 representing NM_001126291
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCAGCCCAGCCTGGAGCCTTTCCTCATTGGGACGAAAATTGGGCTATTCTTCCAAGTGGCACCTC
 TGCTGTATGGCTAAATCCTGTCCATCTGTGTGCTGTGACGAGGTTTCATTTACTGTAATGATCG
 CTCTCTGACATCCATTCCAGTGGGAATTCGGAGGATGCTACAACACTCTACCTTCAAGAACAACCAATA
 AACAAATGTTGGGATTCCTTCAGATTTGAAGAACTTGCTGAAAGTGCAAAGAATATACCTGTACCACAACA
 GTTTAGATGAATTTCTACCAACCTTCAAAGTATGTGAAAGAGTTACATTTGCAGGAGAATAACATAAG
 AACTATACGACTACGATTCCTTTGAAAATCCCTATCTGGAAGAGTTACTTGGATGATAATTCAGTC
 TCGGCTGTAGCATAGAAGAGGGAGCATTTGAGACAGCAACTATCTGCGGCTGCTTTTTCTGTCCCGTA
 ACCACCTTAGCACAATCCCGGGAGGCTTGCCAGGACTATTGAGGAATTACGCTAGATGACAATCGCAT
 ATCAACTATCTTCCCATCGCTTACGGTCTACAAGCCTGAAACGCCTGGTTTTAGATGGAACTTG
 TTGAACAACACCGTTTTGGGTGACAAAGTTTTCTCAACTTAGTAACTTAACAGAACTGTCCCTGGTGA
 GGAATTCCTTGACAGCCGACCCGTGAACCTTCCCGGCACGAGCCTGAGGAAGCTTTACCTCAAGACAA
 CCATATCAACCGGTACCCCAAATGCTTTTTCTATTTAAGGCAGCTGTATCGACTCGATATGTCCAAT
 AATAACCTAAGCAATTTACCTCAGGGTATCTTTGATGATTTGGACAATAAACCCAACTGATTCTTCGCA
 ACAATCCTTGGTATTGTGGGTGCAAGATGAAATGGGTACGAGACTGGTTGCAGTCACTACCTGTGAAGGT
 CAATGTGCGTGGGCTCATGTGCCAAGCTCCAGAAAAGTCCGTGGAATGGCTATCAAGGACCTCAGTGCA
 GAACTGTTGATTGTAAGACAGTGGGATTGTGAGCACCCTCAGATAACCACCGCAATACCTAACACAG
 CATATCCTGCTCAAGGACAGTGGCCAGCTCCTGTGACCAACAACAGATATTAACCCCAAGCTCAC
 TAAGGATCAGCGAACTACAGGCAGTCCCTCACGAAAACAATTTGATTACTGTGAAGTCTGTACCCTT
 GACACAATCCACATATCCTGGAGACTTGCTCTGCCTATGACTGCTTTGCGACTCAGCTGGCTTAACTGG
 GCCACAGCCAGCCTTTGGATCTATAACGGAAACCATCGTAACAGGAGAACGTAGTGAATACTTGGTCAC
 AGCTCTAGAACCTGAATCACCTATAGAGTATGCATGGTCCCATGGAACCCAGTAACCTTTACCTGTTT
 GATGAACTCCTGTTTGTATTGAGACTCAAACCTGCCCTCTTCAATGTACAACCCACAACCACCTCA
 ATCGAGAGCAAGAGAAAGAACCTTACAAAAATCCAAATTTACCTTTGGCCGCCATCATTGGTGGGGCTGT
 GGCCTGGTAAGCATCGCCCTCCTTGTCTTGGTGTGGTATGTGCATAGGAATGGTCCCTGTTCTCA
 CGGAACCTGCGCTACAGCAAAGGAGGAGGAGAAAGGATGACTATGCAGAAGCTGGCACTAAGAAAGACA
 ACTCCATCCTGGAAATCAGGGAACTTCTTCCAGATGCTACCGATAAGCAATGAACCCATCTCCAAGGA
 GGAGTTTGTAAATACACACCATATTTCTCCGAATGGGATGAATCTGTACAAAAACAACCTCAGTGAGAGC
 AGTAGTAACCGGAGCTACAGAGACAGTGGGATTCAGACTTGACCACCTCACACTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001126291
- Insert Size:** 1950 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_001126291.1](#), [NP_001119763.1](#)

RefSeq Size: 2846 bp

RefSeq ORF: 1950 bp

Locus ID: 366205

UniProt ID: [B1H234](#)

Cytogenetics: 3q41

Gene Summary: Functions in cell-cell adhesion, cell migration and axon guidance, exerting an attractive or repulsive role depending on its interaction partners. Plays a role in the spatial organization of brain neurons. Plays a role in vascular development in the retina (By similarity). Plays a role in cell-cell adhesion via its interaction with ADGRL3 and probably also other latrophilins that are expressed at the surface of adjacent cells (By similarity). Interaction with the intracellular domain of ROBO1 mediates axon attraction towards cells expressing NTN1. Mediates axon growth cone collapse and plays a repulsive role in neuron guidance via its interaction with UNC5B, and possibly also other UNC-5 family members (By similarity). Promotes neurite outgrowth (in vitro) (By similarity). Mediates cell-cell contacts that promote an increase both in neurite number and in neurite length (PubMed:15485775). Plays a role in the regulation of the density of glutamaergic synapses (PubMed:22405201). Plays a role in fibroblast growth factor-mediated signaling cascades. Required for normal morphogenesis during embryonic development, but not for normal embryonic patterning. Required for normal ventral closure, headfold fusion and definitive endoderm migration during embryonic development. Required for the formation of a normal basement membrane and the maintenance of a normal anterior visceral endoderm during embryonic development (By similarity).[UniProtKB/Swiss-Prot Function]