

## Product datasheet for **MC220214**

### **Flrt2 (NM\_201518) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Flrt2 (NM_201518) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Flrt2
Synonyms:	KIAA0405
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220214 representing NM\_201518  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCTACAGACTACAAAGTGGCCCGCGTGGGGCTTTCATCCTCAAATTTGGCTCATCATTCC  
 TGGGACTCTACTTACAAGTGCAAACTCCTGGCCTGCCCTAGTGTATGCCGCTGTGACAGGAACTTGT  
 CTAAGTAAACGAGAGAAGCTTGACCTCAGTGCCTCTGGGATCCCGGAGGGCGTAACCGTACTCTACCTC  
 CACAACAACCAAATTAATAATGTGGCTTCTGCAGAGCTGCACAATGTCCAGTCAGTGCACACTGTCT  
 ACCTTTATGGCAACCAGTTGGATGAGTTCCCATGAACCTTCCAAGAATGTCAGAGTTCTCCATCTGCA  
 GGAAAACAACATTAGACCATCTCGCGGCTGCTCTCGCTCAGCTCCTCAAGCTGGAAGAAGTCCACCTG  
 GACGAACTCCATATCTACAGTGGGAGTAGAAGACGGAGCGTCCGGGAGGCGATTAGCCTCAAAGTGT  
 TGTTTTATCGAAGAATCACCTGAGTAGCGTGCCTGTTGGGCTTCTGTAGACTTGAAGAGCTGAGAGT  
 GGATGAAAACCGAATTGCCGTATATCAGACATGGCCTTTCAGAACCTCACAAGCTTGGAGCGCCTGATC  
 GTGGATGGGAATCTTCTGACCAACAAGGCATTGCTGAGGGTACCTTCAGTCATCTCACCAAGCTCAAGG  
 AATTTCTATAGTCCGGAACCTCGCTCTCCACCCACCTCCTGATCTCCAGGTACGCATCTGATCAGGCT  
 CTACTTGCAAGATAACCAGATAAACCATATCCATTGACAGCCTTCGAAACCTCCGTAAGCTGGAAAGG  
 CTAGATATATCCAACAACCAGCTACGAATGTTAACTCAAGGAGTCTTCGATCATCTCTCCAACTGAAAC  
 AACTCACTGCGCGGAATAACCCCTGGTTTTGTGACTGCAGCATTAAATGGGTACAGAAATGGCTCAAGTA  
 TATCCCTTCTTCTCAACGTGCGTGGTTTCATGTGCCAAGGCTCAGCAAGTCCGCGGGATGGCTGTC  
 AGGGAGTTGAATATGAATCTTTGTCTTGTCCCACCAGACTCCTGGCCTACCTGCTTTACCCAGCTC  
 CAAGACCGTTTTCTCCAACAACCTCAGTCTCCTACTCTCTGTTCCAAGCCCAGCAGAGGCTCTGTGCC  
 TCCAGCTCTACCCCATCGAAACTTCCACCATCCCTGATTGGGATGGCAGAGAAAGAGTGACCCACCT  
 ATTTCTGAAAGGATCCAACCTTCCATCCACTTTGTTAATGATACTTCGATTCAAGTCAGCTGGCTGTCTC  
 TCTTTACTGTGATGGCTACAACTGACATGGGTGAAAATGGGCCACAGTCTCGTAGGGGCATCGTTCA  
 GGAACGAATTGTCAGTGGTGAGAAGCAACACCTGAGCTTGGTTAATTTAGAGCCAGATCCACGTATAGG  
 ATTTGTTAGTGGCGCTGGATGCGTTCACTACCGCACTGTGGAAGATACCATCTGTTCCGAGGCTACCA  
 CCCATGCCTTTATTTGAACAACGGCAGCAACTGCTTCTAGCCATGAGCAGACGACTTCCACAGTAT  
 GGGCTCCCTTTCTGCTCGCAGGCTTGATTGGGGCGCAGTGATTTTTGTGCTCGTTGTCTTGTCTCAGC  
 GTCTTTTGTGTCACATGCACAAAAGGGACGCTACACCTCCAGAAGTGGAAATACAACGGGGCCGAC  
 GGAAAGACGACTATTGTGAAGCGGGTACCAAAAAGACAACCTCCTTGGAGATGACAGAAACAAGTTT  
 TCAGATTGCTCCTTAAATAACGATCAGCTCCTTAAAGGAGATTTAGACTGCAGCCATTTATACCCCA  
 AATGGGGGCATTAATTACACAGACTGCCACATCCCAACAACATGAGATACTGCAACAGCAGTGTGCCAG  
 ATCTAGAGCATTGCCATACG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_201518
- Insert Size:** 1983 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\\_201518.4](#), [NP\\_958926.1](#)

**RefSeq Size:** 7099 bp

**RefSeq ORF:** 1983 bp

**Locus ID:** 399558

**UniProt ID:** [Q8BLU0](#)

**Cytogenetics:** 12 E

**Gene Summary:** Functions in cell-cell adhesion, cell migration and axon guidance. Mediates cell-cell adhesion via its interactions with ADGRL3 and probably also other latrophilins that are expressed at the surface of adjacent cells (PubMed:21350012, PubMed:25728924 PubMed:25374360). May play a role in the migration of cortical neurons during brain development via its interaction with UNC5D (PubMed:21673655). Mediates axon growth cone collapse and plays a repulsive role in neuron guidance via its interaction with UNC5D, and possibly also other UNC-5 family members (PubMed:21673655, PubMed:25728924). Plays a role in fibroblast growth factor-mediated signaling cascades (PubMed:16872596). Required for normal organization of the cardiac basement membrane during embryogenesis, and for normal embryonic epicardium and heart morphogenesis (PubMed:21350012).[UniProtKB/Swiss-Prot Function]