

Product datasheet for **RR215371**

Flrt2 (NM_001106750) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Flrt2 (NM_001106750) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Flrt2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR215371 representing NM_001106750
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGCAGACTGCAAAGTGGCCAGCCATGGGACTTTTGTCTAAAATTTGGCTCATCATGTCCC
 TGGACTGTACTCACATGTGCAAACTCCTGGCCTGCCCTAGTGTGTGTCGATGTGACAGGAACTTGT
 CTAAGTGAATGAGAGAAGCTTGACCTCAGTGCCTCTTGGGATCCCGGAGGGCGTAACCGTACTCTACCTC
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 ATCTGGAGCATTGTCACAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
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Protein Sequence: >RR215371 representing NM_001106750
 Red=Cloning site Green=Tags(s)

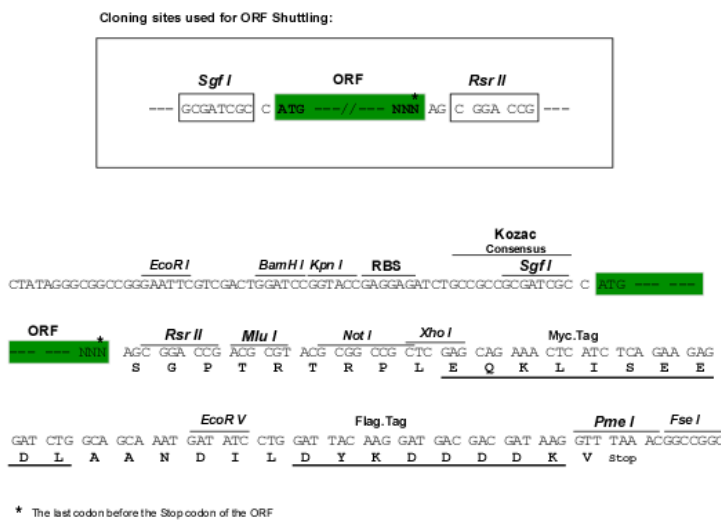
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 VDG NLLTNKGIADGTF SHLTKLKEFSIVRNSLSHPPDLP GTHLIRLYLQDNQINHIPLTAFANLRKLER
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 ICLVPLDAFNRTVEDTICSEATTHASYLNNGSNTASSHEQTT SHTMGS PFLLAGLIGGAVIFVLVLLS
 VFCWHMHKGRYTSQKWKYNRRGRKDDYCEAGTKKDNSILEMTETSFQIVSLNNDQLKGFRLQPIYTP
 NGGINYTDCHIPNNMRYCNSSVPDLEHCHT

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_001106750

ORF Size: 1980 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_001106750.1](#), [NP_001100220.1](#)

RefSeq Size: 2900 bp

RefSeq ORF: 1983 bp

Locus ID: 299236

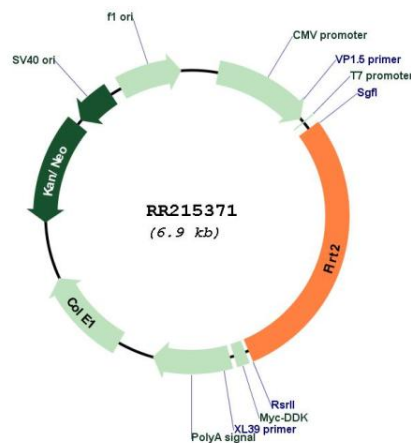
UniProt ID: [D3ZTV3](#)

Cytogenetics: 6q31

MW: 73.9 kDa

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. May play a role in the migration of cortical neurons during brain development via its interaction with UNC5D. 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. Plays a role in fibroblast growth factor-mediated signaling cascades. Required for normal organization of the cardiac basement membrane during embryogenesis, and for normal embryonic epicardium and heart morphogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR215371