

Product datasheet for **MG209947**

Flrt1 (NM_201411) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Flrt1 (NM_201411) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Flrt1 |
| Synonyms: | AW742165; D630040I23Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>MG209947 representing NM_201411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTGGCACACTCTGCTGCCACCGCTACCACCACACCTGCTGCCACGGTCACAGCCACTGTGCTGA
TGACCACAGCCACCATGGACCTGCGGGACTGGCTGTTTCTCTGTTATGGGCTCATTGCCTTCTCAGCGA
GGTCATCGATAGCACCACCTGCCATCAGTGTGCCGCTGTGACAATGGTTTCATCTACTGCAATGACCGG
GGACTCACATCCATCCCCTCAGACATCCCCGACGATGCCACCACCTCTACCTACAGAACAACCAGATCA
ACAATGCGGGCATCCCTCAGGACCTCAAGACCAAGGTCAAGGTGCAGGTCACTACCTGTATGAGAATGA
CCTGGACGAGTTCCTATCAATCTCCCCGCTCCCTGAGAGAGCTGCATCTGCAGGACAACAATGTGCGC
ACCATCGCAGGGACTCTTTGGCTCGCATCCCCTGCTGGAGAAGCTGCACCTGGACGACAACCTCCGTTT
CCACCGTGAGCATCGAGGAGGATGCTTTTGTGACAGCAAGCAGCTCAAGCTGCTTTTCTGAGCCGGAA
CCACCTGAGCAGCATCCCGTCAGGGCTGCCCCACACGCTGGAGGAACTGAGGCTAGATGACAACCGCATC
TCTACCATCCCCCTGCACGCATTCAAGGTCTCAACAGCCTGCGGCGCCTGGTTCTGGATGGCAACCTGC
TGGCAACCCAGCGCATTGCCGACGACACCTTCAGCCGGCTGCAGAACCTCACGGAGCTGTCGCTAGTACG
GAACTCGTGGCTGCCCCGCCCTTAATCTGCCAGCGCCACCTGCAGAAGCTCTACCTGCAGGACAAT
GCCATCAGTCACATTCCTACAACACCTGGCCAAGATGCGGGAGCTGGAGAGGTTGGACCTGTCCAACA
ACAACCTCACCACGCTGCCTCGGGGCTGTTTGTGACCTGGGGAACCTGGCACAGCTGCTTCTCAGGAA
CAACCCCTGGTTCTGTGGCTGTAACCTCATGTGGCTGAGGGACTGGGTGAGGGCACGGGCTGCAGTGGTC
AATGTGCGGGGCTCATGTGCCAGGGCCCTGAGAAGGTCCGGGGCATGGCCATCAAGACATCACCAGCG
AGATGGATGAGTGTGTTGAGGCGGGTACAGGGCGGTGCTGCTAATGCAGCCGCCAAGACCACAGTCAG
CAACCATGCCTCTGCCACCACACCCAGGGCTCTCTTTTACCCTCAAGGCCAAGAGGCCAGGACTGCGC
CTCCCAGACTCCAACATTGACTACCCCATGGCCACTGGCGATGGCGCAAGACATTGGTCATCCAGGTGA
AGCCACTGACGGCAGACTCTATCCGAATCACATGGAAGGCCATGCTACCCGCTCTTCTTCCGGCTCAG
TTGGCTACGTCTGGCCATAGCCCGGCTGTGGCTCTATAACAGAGACCCTGGTGCAGGGGGACAAGACA
GAGTACTGTGACAGCACTGGAGCCCAAGTCCACCTACATCATCTGTATGGTCACCATGGAGACTGGCA
ACACCTACGTGGCCGATGAGACACCTGTGTGTGCAAGGCAGAGACAGCAGATAGCTATGGCCCTACCAC
CACGCTCAACCAGGAACAGAATGCTGGCCCTATGGCGGGCTGCCCTGGCTGGGATTATTGGTGGTGCC
GTGGCTCTTGTATTTCTTCTTCTGGTCTGGGAGCCATTTGCTGGTACGTGCACCGGGCTGGCGAGCTGC
TGACCCGAGAGAGGGTCTACAACAGGGGCAGCAGGAGGAAGGACGACTACATGGAGTCAGGGACCAAGAA
GGATAACTCCATTCTAGAAATCCGTGGCCAGGACTGCAGATGCTACCCATCAACCCGTACCGCTCCAAA
GAGGAGTACGTGGTGCACACCATATTTCCCTCCAATGGCAGCAGCCTCTGCAAGGGTGCCACACTATTG
GCTATGGCACCACAGGAGCTACCGGGAAGCGGCATCCCTGATGTGGACTACTCTACACA

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209947 representing NM_201411
Red=Cloning site Green=Tags(s)

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MVVAHSAATATTTAATVTATVMTTATMDLRDWLFLCYGLIAFLTEVIDSTTCPSVCRCDNGFIYCNDR
GLTSIPSDIPDDATTLYLQNNQINNAGIPQDLTKVKVQVIYLYENDLDEFFINLPRSLRELHLQDNNVR
TIARDSLARIPLLEKLHLDNVSYSTVSIIEEDAFADSKQLKLLFLSRNHLSSIPSGLPHTLEELRLDDNRI
STIPLHAFKGLNSLRRLVLDGNLLANQRIADDTFSRLQNLTELSLVRNSLAAPPLNLPSAHLQKLYLQDN
AISHIPYNTLAKMRELERLDLSNNNLTTLPRLFDLGNLAQLLLRNNPWFCGCNLMWLRDWRARAADV
NVRGLMCQGPEKVRGMAIKDITSEMDECFEAGSQGGAANAAAKTTVSNHASATTPQGSFLTKAKRPGRL
LPDSNIDYPMATGDGAKTLVIQVKPLTADSIKITWKAMPLPASSFRLSWLRLGHSPAVGSITETLVQGDKT
EYLLTALEPKSTYIICMVTMETGNTYVADETPVCAKAETADSYGPTTTLNQEONAGPMAGLPLAGIIGGA
VALVFLFLVLGAICWYVHRAGELLTRERVYNRGSRKDDYMEGTTKDDNSILEIRGPGQLMPLINPYRSK
EEYVVHTIFPSNGSSLCKGAHTIGYGTTRGYREAGIPDVEDYSY
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201411

ORF Size: 5873 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_201411.1](#)

RefSeq Size: 2847 bp

RefSeq ORF: 2025 bp

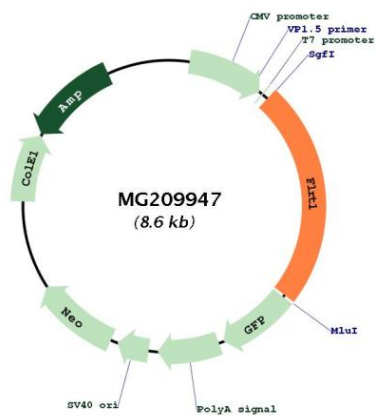
Locus ID: 396184

UniProt ID: [Q6RKD8](#)

Cytogenetics: 19 A

Gene Summary: Plays a role in fibroblast growth factor-mediated signaling cascades that lead to the activation of MAP kinases (PubMed:16872596, PubMed:20421966). Promotes neurite outgrowth via FGFR1-mediated activation of downstream MAP kinases. Promotes an increase both in neurite number and in neurite length (PubMed:20421966). May play a role in cell-cell adhesion and cell guidance via its interaction with ADGRL1/LPHN1 and ADGRL3 (PubMed:22405201).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209947