

Product datasheet for **MR209947**

Flrt1 (NM_201411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flrt1 (NM_201411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flrt1
Synonyms:	AW742165; D630040I23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209947 representing NM_201411
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGGTGGCACACTCTGCTGCCACCGCTACCACCACACCTGCTGCCACGGTCACAGCCACTGTGCTGA
 TGACCACAGCCACCATGGACCTGCGGGACTGGCTGTTTCTCTGTTATGGGCTCATTGCCTTCTCAGCGA
 GGTTCATCGATAGCACCACCTGCCATCAGTGTGCCGCTGTGACAATGGTTTCATCTACTGCAATGACCGG
 GGACTCACATCCATCCCCTCAGACATCCCCGACGATGCCACCACCTCTACCTACAGAACAACCAGATCA
 ACAATGCGGGCATCCCTCAGGACCTCAAGACCAAGGTCAAGGTGCAGGTTCATCTACCTGTATGAGAATGA
 CCTGGACGAGTTCCTATCAATCTCCCCGCTCCCTGAGAGAGCTGCATCTGCAGGACAACAATGTGCGC
 ACCATCGCAGGGACTCTTTGGCTCGCATCCCCTGCTGGAGAAGCTGCACCTGGACGACAACCTCCGTTT
 CCACCGTGAGCATCGAGGAGGATGCTTTTGTGACAGCAAGCAGCTCAAGCTGCTTTTCTGAGCCGGAA
 CCACCTGAGCAGCATCCCGTCAAGGCTGCCCCACACGCTGGAGGAACTGAGGCTAGATGACAACCGCATC
 TCTACCATCCCCCTGCACGCATTCAAGGTCTCAACAGCTGCGGCGCCTGGTTCTGGATGGCAACCTGC
 TGGCAACCCAGCGCATTGCCGACGACACCTTCAGCCGGCTGCAGAACCTCACGGAGCTGTGCTAGTACG
 GAACTCGTGGCTGCCCCGCCCTTAATCTGCCAGCGCCACCTGCAGAAGCTCTACCTGCAGGACAAT
 GCCATCAGTCACATTCCTACAACACCTGGCCAAGATGCGGGAGCTGGAGAGGTTGGACCTGTCCAACA
 ACAACCTCACCACGCTGCCTCGGGGCTGTTTGTGACCTGGGGAACCTGGCACAGCTGCTTCTCAGGAA
 CAACCCCTGGTTCTGTGGCTGTAACCTCATGTGGCTGAGGGACTGGGTGAGGGCACGGGCTGCAGTGGTC
 AATGTGCGGGGCTCATGTGCCAGGGCCCTGAGAAGTCCGGGGCATGGCCATCAAGACATCACCAGCG
 AGATGGATGAGTGTCTTGAGGCGGGTACAGGGCGGTGCTGCTAATGCAGCCGCAAGACCACAGTCAG
 CAACCATGCCTCTGCCACCACACCCAGGGCTCTCTGTTTACCCTCAAGGCAAGAGGCCAGGACTGCGC
 CTCCCAGACTCCAACATTGACTACCCATGGCCACTGGCGATGGCGCAAGACATTGGTTCATCCAGGTGA
 AGCCACTGACGGCAGACTCTATCCGAATCACATGGAAGGCCATGTACCCGCTCTTCTTCCGGCTCAG
 TTGGCTACGTCTGGCCATAGCCCGGCTGTGGCTCTATAACAGAGACCCTGGTGCAGGGGACAAGACA
 GAGTACTGTGACAGCACTGGAGCCAAAGTCCACCTACATCATCTGTATGGTACCATGGAGACTGGCA
 ACACCTACGTGGCCGATGAGACACCTGTGTGTGCAAGGCAGAGACAGCAGATAGCTATGGCCCTACCAC
 CACGCTCAACCAGGAACAGAATGCTGGCCCTATGGCGGGCTGCCCTGGCTGGGATTATTGGTGGTGCC
 GTGGCTCTTGTATTTCTTCTTCTGGTCTGGGAGCCATTTGCTGGTACGTGCACCGGGCTGGCGAGCTGC
 TGACCCGAGAGAGGGTCTACAACAGGGGCAGCAGGAGGAAGGACGACTACATGGAGTCAGGGACCAAGAA
 GGATAACTCCATTCTAGAAATCCGTGGCCAGGACTGCAGATGCTACCCATCAACCCGTACCGCTCCAAA
 GAGGAGTACGTGGTGCACACCATATTTCCCTCCAATGGCAGCAGCCTCTGCAAGGGTGCCACACTATTG
 GCTATGGCACCACAGGAGCTACCGGGAAGCGGCATCCCTGATGTGGACTACTCTACACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209947 representing NM_201411
 Red=Cloning site Green=Tags(s)

MVVAHSAATATTTAATVTATVMTTATMDLRDWLFLCYGLIAFLTEVIDSTTCPSVCRCDNGFIYCNDRL
 GLTSIPSDIPDDATTLYLQNNQINNAGIPQDLTKVKVQVIYLYENDLDEFFINLPRSLRELHLQDNNVR
 TIARDSLARIPLLEKHLDDNSVSTVSI EEDAFADSKQLKLLFLSRNHLSSIPGLPHTLEELRLDDNRI
 STIPLHAFKGLNSLRRLVLDGNLLANQRIADDTFSRLQNLTELSLVRNSLAAPPLNLPSAHLQKLYLQDN
 AISHIPYNTLAKMRELERLDLSNNLTTLP RGLFDDLGNLAQLLLRNNPWFCGCNLMWLRDWVRARA
 AVV NVRGLMCQGPEKVRGMAIKDITSEMDECFEAGSQGGAANAAAKTTVSNHASATTPQGSFLTKAKRPGLR
 LPDSNIDYPMATGDGAKTLVIQVKPLTADSIRITWKAMPLPASSFRLSWLRLGHSPAVGSITETLVQGD
 KTYLLTALEPKSTYIICMVTMETGNTYVADETPVCAKAETADSYGPTTTLNQEQNAGPMAGLPLAGI
 IGGA VALVFLFLVLAGICWYVHRAGELLTRERVYNRGSRKDDYMESGTKKDNSILEIRGPGQLMPLIN
 PYSK EEEVYVHTIFPSNGSSLCKGAHTIGYGTTRGYREAGIPD V DYSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201411

ORF Size: 2022 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_201411.2](#), [NP_958813.1](#)

RefSeq Size: 5876 bp

RefSeq ORF: 2025 bp

Locus ID: 396184

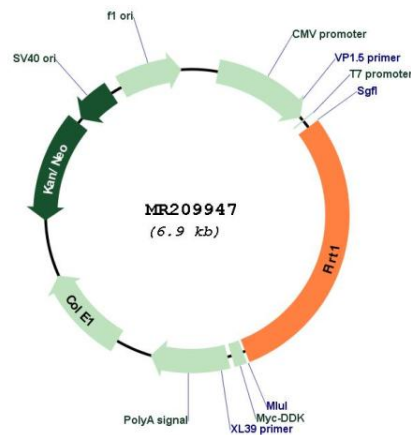
UniProt ID: [Q6RKD8](#)

Cytogenetics: 19 A

MW: 74.6 kDa

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 MR209947