OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC206025

Flrt3 (BC052043) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flrt3 (BC052043) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Flrt3
Synonyms:	5530600M07Rik; C430047I10Rik; mKIAA1469
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC052043
CGCGCAGTCAACTGGATGCTCTCGCGCGCAGTCCTCAGCGCAGGAGTGATCTGAAGCAGGACCGCTCAGG
CTGCAGCTGCCGTGGCTTTGTGTGCACTGGATGCCGCGCTCCGGAGACGGGGGAGGGTTTTTACTTCAAC
TCACAGGCAATGGAATTACAGCTGTAGCAGCAGGGTATAAAGGATTGCTTTTTCCTCGTCTTCCTGGAGG
TGCTCAGTCCTGGCCCATTTTAAGGACGAGAAATATAAAGGGAATTTAGTGTGCTTCCTTCTCTTTCCAT
GAAGACTGCATGCACTGTGCCCTTTGCTTCTTAAAAGAGACTCCACCCACTCCAGTAGACCGGGGACTAA
AACAGAAATTCTGAGAAAGCAGCAAGAAGCAGAAGAAATAGCTATTTCACAGCAGTAACAGAAGCTACCT
GCTATAATAAAGACCTCAACACTGCTGACCATGATCAGCCCAGCCTGGAGCCTCTTCCTCATCGGGACTA
AAATTGGGCTGTTCTTCCAAGTGGCACCTCTGTCAGTTGTGGCTAAATCCTGTCCATCTGTATGTCGCTG
TGACGCAGGCTTCATTTACTGTAACGATCGCTCTCTGACATCCATTCCAGTGGGAATTCCGGAGGATGCT
ACAACACTCTACCTTCAGAACAACCAAATAAACAATGTTGGGATTCCTTCCGATTTGAAGAACTTGCTGA
AAGTACAAAGAATATACCTATACCACAACAGTTTAGATGAATTCCCTACCAACCTTCCAAAGTATGTCAA
AGAGTTACATTTGCAAGAGAATAACATAAGGACTATCACCTATGATTCACTTTCGAAAATTCCGTATCTG
GAAGAGTTACACTTGGATGATAACTCAGTCTCGGCTGTTAGCATCGAAGAGGGAGCATTTCGAGACAGTA
ACTATCTGCGGCTGCTTTTTCTGTCCCGTAACCACCTTAGCACAATCCCGGGGGGCTTGCCCAGGACTAT
TGAGGAATTACGCCTGGATGACAATCGCATATCAACGATCTCTTCCCCATCACTTCATGGTCTCACAAGC
CTGAAACGCCTGGTTTTAGATGGAAACTTGTTGAACAACCATGGTTTGGGTGACAAAGTTTTCTTCAACT
TAGTAAACTTAACAGAGCTGTCCCTGGTGAGGAATTCCTTGACAGCAGCGCCAGTGAACCTTCCCGGCAC
AAGCCTGAGGAAGCTTTACCTTCAAGACAACCATATCAACCGGGTACCCCCAAATGCTTTTTCTTATTTA
AGGCAGCTGTATCGACTCGATATGTCTAATAATAACCTAAGCAATTTACCTCAGGGTATCTTTGATGATT
TGGACAATATAACCCAACTGATTCTTCGCAACAATCCTTGGTATTGTGGATGCAAGATGAAATGGGTACG
AGACTGGTTACAGTCGCTACCGGTGAAGGTCAATGTGCGTGGGCTCATGTGCCAAGCCCCAGAAAAGGTC
CGTGGAATGGCTATCAAGGACCTCAGTGCAGAACTGTTTGATTGTAAAGACAGTGGGATTGTGAGCACCA
TTCAGATAACCACTGCAATACCCAACACAGCATATCCTGCTCAAGGACAGTGGCCAGCTCCTGTGACCAA
ACAACCAGATATTAAAAACCCCAAGCTCATTAAGGATCAGCGAACTACAGGCAGCCCCTCACGGAAAACA
ATTTTAATTACTGTGAAATCTGTCACCCCTGACACAATCCACATATCCTGGAGACTTGCTCTGCCTATGA
CTGCTCTGCGACTCAGCTGGCTTAAACTGGGCCATAGCCCAGCCTTTGGATCTATAACAGAAACAATCGT
AACAGGAGAACGCAGTGAATACTTGGTCACCGCCCTAGAACCTGAATCACCCTATAGAGTATGCATGGTT
CCCATGGAAACCAGTAACCTTTACCTGTTTGATGAAACACCTGTTTGTATTGAGACCCAAACTGCCCCTC
TTCGAATGTACAACCCCACAACCACCCTCAATCGAGAGCAAGAGAAAGAACCTTACAAAAATCCAAATTT
ACCTTTGGCTGCCATCATTGGTGGGGCTGTGGCCCTGGTAAGCATCGCCCTCCTTGCTTTGGTGTGTTGG
TATGTGCATAGGAACGGGTCACTGTTTTCACGGAACTGTGCGTACAGCAAAGGGCGGAGGAGAAAGGATG
ACTATGCAGAAGCCGGTACTAAGAAAGACAACTCCATCCTGGAAATCAGGGAAACTTCTTTCCAGATGCT
ACCGATAAGCAATGAACCCATCTCCAAGGAGGAGTTTGTAATACACACCATATTTCCTCCGAATGGGATG
AATCTGTACAAGAACAACCTCAGTGAGAGCAGTAGTAACCGGAGCTACAGAGACAGTGGCATCCCAGACT
CGGACCACTCACACTCATGATGCAAGGAGGTCCCACACCAGACTGTTCCGGGTTTTTTTTTAAAAAACCT
AAGAAAGGTGATGGTAGGAACTCTGTTCTACTGCAAAACACTGGAAAAGAGACTGAGAGAAGCAATGTAC
TGTACATTTGCCATATAATTTATATTTAAGAACTTTTTATTAAAAGTTTCAGATTTCAGGTTGCTGCTGC
GGTTGATGTAGTGGGGATGCCTGAACACAATTCTATATTTTAGTATTTTTTAGTAATTTGTACTGTATTT
TCCTTGCAGATATTGAAGTTATAAACCATTTACTTTGTGTTCTACTGAGTAAGATGACTTGTTGACTGTG
AAAGTGAATTTTCCCGCTGTGTTGAACAATCAGGACTGCGTTCACATGAGACCCTTGTAGTATAAGCACA
GGCCGTTTTTCACTTTGGTATTAATACAATGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: BC052043

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:	BC052043, AAH52043
RefSeq Size:	2868 bp
RefSeq ORF:	1950 bp
Locus ID:	71436
Cytogenetics:	2 F3
Gene Summary:	Functions in cell-cell adhesion, cell migration and axon guidance, exerting an attractive or repulsive role depending on its interaction partners (PubMed:19056886, PubMed:25374360). Plays a role in the spatial organization of brain neurons (PubMed:25374360). Plays a role in vascular development in the retina (PubMed:25374360). 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 (PubMed:22405201, PubMed:25374360). Interaction with the intracellular domain of ROBO1 mediates axon attraction towards cells expressing NTN1 (PubMed:24560577). 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 (PubMed:21673655, PubMed:25374360). Promotes neurite outgrowth (in vitro) (By similarity). Mediates cell-cell contacts that promote an increase both in neurite number and in neurite length (By similarity). Plays a role in the regulation of the density of glutamaergic synapses (PubMed:22405201). Plays a role in fibroblast growth factor-mediated signaling cascades (PubMed:16872596). Required for normal morphogenesis during embryonic development, but not for normal embryonic patterning (PubMed:19056886). Required for normal ventral closure, headfold fusion and definitive endoderm migration during embryonic development (PubMed:18448090). Required for the formation of a normal basement membrane and the maintenance of a normal anterior visceral endoderm during embryonic development (PubMed:19056886).[UniProtKB/Swiss-Prot Function]