

Product datasheet for **RG224270**

FLRT2 (NM_013231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLRT2 (NM_013231) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLRT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224270 representing NM_013231
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCTACAGACCACAAAGTGGCCAGCCATGGGGCTTTTTCTGAAGTCTTGCTTATCATTTCCC
 TGGGGCTCTACTCACAGGTGCCAACTCTGGCCTGCCCTAGTGTGCGCGCTGCGACAGGAACCTTGT
 CTAAGTGAATGAGCGAAGCTTGACCTCAGTGCCTCTTGGGATCCCGGAGGGCGTAACCGTACTCTACCTC
 CACAACAACCAAAATTAATAATGCTGGATTTCTGCAGAACTGCACAATGTACAGTCGGTGCACACGGTCT
 ACCTGTATGGCAACCAACTGGACGAATTCCTCATGAACCTTCCAAGAATGTCAGAGTTCTCCATTTGCA
 GGAAAACAATATTCAGACCATTTACGGGCTGCTCTTGCCAGCTCTGAAGCTTGAAGAGCTGCACCTG
 GATGACAACTCCATATCCACAGTGGGGTGAAGACGGGGCTTCCGGGAGGCTATTAGCCTCAAATTTGT
 TGTTTTGTCTAAGAATCACCTGAGCAGTGTGCCTGTTGGGCTTCTGTGGACTTGAAGAGCTGAGAGT
 GGATGAAAATCGAATTGCTGTCATATCCGACATGGCCTTCCAGAATCTCAGGAGCTTGGAGCGTCTTATT
 GTGGACGGGAACCTCCTGACCAACAAGGTATCGCCGAGGGCACCTTCAGCCATCTCACCAAGCTCAAGG
 AATTTTCAATTGTACGAATTGCTGTCCACCCTCCTCCCGATCTCCAGGTACGCATCTGATCAGGCT
 CTATTTGCAGGACAACCAGATAAACACATTCTTTGACAGCCTTCTCAAATCTGCGTAAGCTGGAACGG
 CTGGATATATCCAACAACCAACTGCGGATGCTGACTCAAGGGGTTTTTGATAATCTTCCAACCTGAAGC
 AGCTCACTGCTCGGAATAACCTTGGTTTTGTGACTGCAGTATTAATGGGTACAGAAATGGCTCAAATA
 TATCCCTTCATCTCAACGTGCGGGTTTCATGTGCCAAGTCTGAACAAGTCCGGGGGATGGCCGTC
 AGGGAATTAATATGAATCTTTTGTCTGTCCACCACGACCCCGCCCTGCCTCTTTCACCCAGCCC
 CAAGTACAGCTTCTCCGACCACTCAGCCTCCACCCTCTCTATTCCAACCCTAGCAGAAGCTACACGCC
 TCCAACCTCTACCACATCGAAACTTCCACGATTCTGACTGGGATGGCAGAGAAAGAGTGACCCACCT
 ATTTCTGAACGGATCCAGCTCTCTATCCATTTGTGAATGATACTTCCATTCAAGTCAGCTGGCTCTCTC
 TCTTACCCTGATGGCATACAAACCTCACATGGGTGAAAATGGGCCACAGTTTAGTAGGGGCATCGTTCA
 GGAGCGCATAGTCAGCGGTGAGAAGCAACACCTGAGCCTGGTAACTTAGAGCCCGATCCACCTATCGG
 ATTTGTTTAGTGCCACTGGATGCTTTTAACTACCGCGCGGTAGAAGACACCATTTGTTTACAGAGCCACCA
 CCCATGCCTCTATCTGAACAACGGCAGCAACACAGCGTCCAGCCATGAGCAGACGACGTCCACAGCAT
 GGGCTCCCTTTCTGCTGGCGGGCTTGATCGGGGGCGCGGTGATTTTGTGCTGGTGGTCTTGCTCAGC
 GTCTTTTGTGTCATATGCACAAAAGGGGCGCTACACCTCCAGAAGTGGAAAACAACCGGGGCGGGC
 GGAAAGATGATTATTGCGAGGCAGGCACCAAGAAGGACAACCTCCATCCTGGAGATGACAGAAACAGTTT
 TCAGATCGTCTCTTAAATAACGATCAACTCCTTAAAGGAGATTTGAGACTGCAGCCATTTACACCCCA
 AATGGGGGCATTAATTACACAGACTGCCATATCCCAACAACATGCGATACTGCAACAGCAGCGTGCCAG
 ACCTGGAGCACTGCCATACG

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224270 representing NM_013231
Red=Cloning site Green=Tags(s)

MGLQTTKWP SHGAFFLKSWLIISLGLYSQVSKLLACPSVCRCDRNFVYCNERSLTSVPLGIPEGVTVLYL
HNNQINNAGFPAELHNVQSVHTVYLYGNQLDEFPMNLPKNVRLHLQENNIQTISRALAQLLKLEELHL
DDNSISTVGVEDGAFREAI SLKLLFLSKNHLSSVPVGLPVDLQELRV DENRIAVISDMAFQNLTSLERLI
VDGNLLTNKGIAEGTF SHLTKLKEFSIVRNSLSHPPDLP GTHLIRLYLQDNQINHIPLTAFSNLRKLER
LDISNNQLRMLTQGVFDNLSNLKQLTARNNPWF CDCS IKWVTEWLKYIPSSLNVRGFM CQGP EQVRGMAV
RELNMNLLS CPTTTPGLPLFTPAPSTASPTTQPPTLSIPNPSRSYTPPTTTSKLPTIPDW DGRERVTPP
ISERIQLSIHFVNDTSIQVSWLSLFTVMAYKLTWVKMGHSLVGGIVQERIVS GEKQHL SLVNLEPRSTYR
ICLVPLDAFN YRAVEDTICSEATTHASYLNNGSNTASSHEQTTSHSMGSPFLLAGLIGGAVIFVLVLLS
VFCWHMHKKGRYTSQKWKYNRGRKDDYCEAGTKKDNSILEMTETSFQIVSLNNDQLLKGDFRLQPIYTP
NGGINYTDCHIPNMRYCNSSVPDLEHCHT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013231

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_013231.5](#)

RefSeq Size: 7185 bp

RefSeq ORF: 1983 bp

Locus ID: 23768

UniProt ID: [O43155](#)

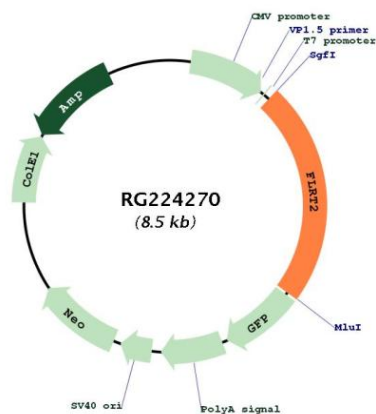
Cytogenetics: 14q31.3

Domains: LRRNT, LRRCT, LRR, LRR_TYP, FN3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the fibronectin leucine rich transmembrane (FLRT) family of cell adhesion molecules, which regulate early embryonic vascular and neural development. The encoded type I transmembrane protein has an extracellular region consisting of an N-terminal leucine-rich repeat domain and a type 3 fibronectin domain, followed by a transmembrane domain and a short C-terminal cytoplasmic tail domain. It functions as both a homophilic cell adhesion molecule and a heterophilic chemorepellent through its interaction with members of the uncoordinated-5 receptor family. Proteolytic removal of the extracellular region controls the migration of neurons in the developing cortex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG224270