

## Product datasheet for **SC115333**

### FLRT2 (NM\_013231) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FLRT2 (NM_013231) Human Untagged Clone
Tag:	Tag Free
Symbol:	FLRT2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_013231, the custom clone sequence may differ by one or more nucleotides

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ATGGGCCTACAGACCACAAAGTGGCCAGCCATGGGGCTTTTTCTGAAGTCTTGGCTTATCATTCC
TGGGGCTCTACTCAGGTGTCCAACTCTGGCCTGCCCTAGTGTGCCGCTGCGACAGGAACCTTGT
CTACTGTAATGAGCGAAGCTTGACCTCAGTGCCTTTGGGATCCCGGAGGGCGTAACCGTACTCTAC
CACAAACACAAATTAATAATGCTGGATTTCTGCAGAACTGCACAATGTACAGTCGGTGCACACGGT
ACCTGTATGGCAACCAACTGGACGAATCCCCATGAACCTTCCAAGAATGTCAGAGTTCTCCATTTG
GAAAAACAATATTCAGACCATTTACGGGCTGCTTTGCCAGCTCTTGAAGCTTGAAGAGCTGCACCT
GATGACAACTCCATATCCACAGTGGGGTGAAGACGGGGCTTCCGGGAGGCTATTAGCCTCAAATGT
TGTTTTGTCTAAGAATCACCTGAGCAGTGTGCCTGTTGGGCTTCTGTGACTTGAAGAGCTGAGAG
GGATGAAATCGAATTGCTGTATATCCGACATGGCCTCCAGAATCTCACGAGCTTGGAGCGTCTATT
GTGGACGGGAACCTCCTGACCAACAAGGTATCGCCGAGGGCACCTTCCAGCATCTACCAAGCTCAAG
AATTTTCAATTGTACGTAATTCGCTGTCCACCCTCCTCCGATCTCCAGGTACGCATCTGATCAGG
CTATTTGCAGGACAACAGATAAACACATTCTTTGACAGCCTTCTCAAATCTGCGTAAGCTGGAACGG
CTGGATATATCCAACAACCAACTGCGGATGCTGACTCAAGGGGTTTTTGATAATCTCTCCAACTGAAG
AGCTCACTGCTCGGAATAACCTTGGTTTTGTGACTGCAGTATTAATGGGTACAGAATGGCTCAAATA
TATCCCTTCACTCTCAACGTGCGGGTTTTCATGTCCAAGTCTGAACAAGTCCGGGGGATGGCCGTC
AGGGAATTAATATGAATCTTTTGTCTGTCCACCACGACCCCGGCTGCCTCTTCCACCCAGCCC
CAAGTACAGCTTCTCCGACCACTCAGCCTCCACCCTCTCTATTCCAACCCTAGCAGAAGTACACGCC
TCCAACCTCCTACCACATCGAAACTTCCACGATTCCTGACTGGGATGGCAGAGAAAGAGTACCCCACT
ATTTCTGAACGGATCCAGCTCTCTATCCATTTTGTGAATGATACTCCATTCAAGTCAAGTGGCTCTC
TCTTACCCTGATGGCATACAACTCACATGGGTGAAAAATGGGCCACAGTTTAGTAGGGGCATCGTTCA
GGAGCGCATAGTCAGCGGTGAGAAGCAACCTGAGCCTGGTAACTTAGAGCCCGATCCACCTATCGG
ATTTGTTTAGTGCCACTGGATGCTTTTAACTACCGCGCGGTAGAAGACACCATTGTTTCCAGAGGCC
CCCATGCCTCTATCTGAACAACGGCAGCAACACAGCTCCAGCCATGAGCAGACGACGTCCACAGCAT
GGGCTCCCTTTCTGCTGGCGGCTTGTATCGGGGCGCGGTGATATTTGTGCTGGTGGTCTTGTCTCAG
GTCTTTTGTGTCATATGCACAAAAGGGGCGCTACACCTCCAGAAGTGGAAATACAACCGGGGCGGC
GGAAGATGATTATTGCGAGGCAGGCACCAAGAAGGACAACCTCCATCCTGGAGATGACAGAAACAGTT
TCAGATCGTCTCCTTAAATAACGATCAACTCCTTAAAGGAGATTTAGACTGCAGCCATTTACACCCCA
AATGGGGGCATTAATTACACAGACTGCCATATCCCAACAACATGCGATACTGCAACAGCAGCGTGCCAG
ACCTGGAGCACTGCCATACGTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013231 unedited

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ATAGGGCCGCGCGAATTTCGACGAGGGTCGCCGTCACCTGCGCGTTTGGCATTATCCA
TTGTCACCGCGGAGGAACGAGCGCTCGAGATATCATCAGTGCCCGCAAATCTCCGCGCCA
AGGCGCTGAGCTACTCCTTTCCGAGATTGCAGATTGAGCTTAACCAAGAAGTTCGTAGGC
TAATCAAGGCTGGCTTGACCTACAAAAGAAGAAGAGATTCTGCCTGCCACTTGGGCTT
GTGTTGACACGGCTGATAACTTGCCATCACCTGTTGCCAGTGTGGAAAAATTCTCCCTGT
TGAATTTTTTGCACATGGAGGACAGCAGCAAGAGGGCAACACAGGCTGATAAGACCAGA
GACAGCAGGGAGATTATTTACCATACGCCCTCAGGACGTTCCCTCTAGCTGGAGTTCTG
GACTTCAACAGAACCCCATCCAGTCATTTTGTGTTTATTTTTTTTTTTCTTTTT
CTTTTTCCACCACATTTGATTTTATTTCCGTAATTCAGAAATGGGCCTACAGACCACAA
AGTGGCCAGCCATGGGGCTTTTTCTGAAGTCTTGGCTTATCATTCCCTGNGGCTCT
ACTCACAGGTGTCCAACTCCTGGCCTGCCCTAGTGTGCCGCTGCGACAGGAACCTTG
TCTACTGTAATGAGCGAAGCTTGACCTCAGTGCCTTGGGATCCCGGAGGNCGTAAACC
TACTCTACCTNNCACACAACCAATTAATATGCTGGNATTTCTGCAGAACTGCCACAT
GTACAGTCGGTGCACACGGTCTACCTGTATGGCAACCAACTGGACGAANTTCCATGAAC
CTTTTCCAGATGTCAGAGTTCTCCATTTGCAGGAAAACATATTTAGACCATTACGC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013231 unedited TGTACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTGANAGAGAG AGAGCTAGTAAGATGATTGTGACATTTACTTCATGGGTCCTATAATAATGGTCAATGGT AAAAGAAATATGCAGCACAGAGTGAAATGTTTAAATTTGATTTTCGAAAGATATTTTTC CAAGGGAGTAGTTTTGATAACGTATGTGATCTATAGCCCTTCTCTATCTAAGGATGGCA AAGATTAATTTATGTGTTTTCTGAAGGTGTTGTCTCAAAGTATCTAGAATTAAGCATGG ACATCCTCTCTTTCTACGCCCTGCTCTGCCAGGATTAGGGGAAAAAGCCTTCACTCTCT GACTTGTTTTTCATGGGTTGTCCTGCTAACATAAGATTGATTAGCCCTCCACACTTGCCA AAGTAGAGGAACATCCACGATGGAAAAGGAACAAATAAAATTTCAAAGTGGAACAGGAT CAAAGTTAGTCCAAGGTGAAACCAGGTATTGTTTTTAAAAACAACTATTATTTTGGC CAGCTTTGATGTGCCCTACCGAATTATTACCGCGAAAATTCCTCACTATTTTAAACG TTCAAGTACTCCATGGATATTTGTGCAGTCAAGACTGGCTTCCATAATTCTCCTTGAA TACTGAACAGAGGGAGAATAACCAAGGTGCTACCCATCTCCTTCTAAAATATATGCGC CATGATTGTAATACCACACCTTGTGGCGCTCCTAGATCCCTTTAACCTTCTCACACTG TTCCCATCGTAGCTGCCATTCCCACTTGTCGGTTGTTTTTCCCACTCCTTGCCCGCT ATTTCTACTCCCCTGTTGTCTTTCCACTTGCACCTGTTGGCTTCAACCGGCCCCATT CTCCGGCCGCCCACTACCCATTTCAAATTTCCCCCTTCCCCCTTCCATCTTCCC CTACACCCCCACCTTTTCCCG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013231
<b>Insert Size:</b>	4150 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_013231.4</a> , <a href="#">NP_037363.1</a>
<b>RefSeq Size:</b>	7185 bp
<b>RefSeq ORF:</b>	1983 bp
<b>Locus ID:</b>	23768
<b>UniProt ID:</b>	<a href="#">O43155</a>
<b>Cytogenetics:</b>	14q31.3
<b>Domains:</b>	LRRNT, LRRCT, LRR, LRR_TYP, FN3
<b>Protein Families:</b>	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]

Transcript Variant: This variant (3) uses an alternate exon in the 5' UTR, compared to variant 1. Variants 1, 2, 3, 4, and 5 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.