

## **Product datasheet for RC224270L3**

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OriGene Technologies, Inc.

## FLRT2 (NM\_013231) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: FLRT2 (NM\_013231) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: FLRT2

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

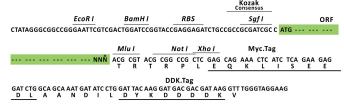
The ORF insert of this clone is exactly the same as(RC224270).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_013231 **ORF Size:** 1980 bp





## FLRT2 (NM\_013231) Human Tagged Lenti ORF Clone - RC224270L3

**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: <u>NM 013231.4</u>

 RefSeq Size:
 7185 bp

 RefSeq ORF:
 1983 bp

 Locus ID:
 23768

 UniProt ID:
 043155

Cytogenetics: 14q31.3

**Domains:** LRRNT, LRRCT, LRR, LRR\_TYP, FN3

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 74 kDa

**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 levelop risk report domain and a type 3 fibranestic domain followed by a

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]