

## Product datasheet for **RG204557**

### FLRT1 (NM\_013280) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FLRT1 (NM_013280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLRT1
Synonyms:	SPG68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204557 representing NM\_013280  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTGGCACACCCACCGCCACTGCCACCACCAGCCCACTGCCACTGTCACGGCCACCGTTGTGA  
 TGACCACGGCCACCATGGACCTGCGGGACTGGCTGTTCCCTCTGCTACGGGCTCATCGCCTTCTGACGGA  
 GGTTCATCGACAGCACCACCTGCCCTCGGTGTGCCGTGCGACAACGGTTTCATCTACTGCAACGACCGG  
 GGACTCACATCCATCCCCGAGATATCCCTGATGATGCCACCACCTCTACCTGCAGAACAACCAGATCA  
 ACAACGCCGGCATCCCCAGGACCTCAAGACCAAGGTCAACGTGCAGGTTCATCTACCTATACGAGAATGA  
 CCTGGATGAGTTCCCATCAACCTGCCCGCTCCCTCCGGGAGCTGCACCTGCAGGACAACAATGTGCGC  
 ACCATTGCCAGGGACTCGCTGGCCCGCATCCCGTGTGGAGAAGCTGCACCTGGATGACAACCTCCGTGT  
 CCACCGTCAGCATTGAGGAGGACGCCTTCGCCGACAGAAACAGCTCAAGCTGCTTTCCTGAGCCGGAA  
 CCACCTGAGCAGCATCCCTCGGGGCTGCCGCACAGCTGGAGGAGCTGCGGCTGGATGACAACCGCATC  
 TCACCATCCCGTGCATGCCTTCAAGGCCTCAACAGCTGCGGCGCCTGGTGTGGACGGTAACCTGC  
 TGGCAACCGAGTATCGCCGACGACACCTTACGCCCTACAGAACCTCACAGAGCTCTCGCTGGTGGC  
 CAATTCGCTGGCCGCGCCACCCCTCAACCTGCCAGCGCCACCTGCAGAAGCTCTACCTGCAGGACAAT  
 GCCATCAGCCACATCCCTACAACACGCTGGCCAAAGATGCGTGAGCTGGAGCGGCTGGACCTGTCCAACA  
 ACAACCTGACCACGCTGCCCGCGGCCTGTTGACGACCTGGGAACTGGCCAGCTGTGCTCAGGAA  
 CAACCTTGGTTTTGTGGCTGCAACCTCATGTGGCTGCGGGACTGGTGAAGGCACGGCCGGCCGTGGTC  
 AACGTGCGGGGCTCATGTGCCAGGCCCTGAGAAGTCCGGGGCATGGCCATCAAGGACATTACCAGCG  
 AGATGGACGAGTGTGTTGAGACGGGGCCGAGGGCGGCTGGCCAATGCGGCTGCCAAGACCAGGCCAG  
 CAACCACGCTCTGCCACCAGCCAGGGTTCCTGTTTACCCTCAAGGCCAAAAGGCCAGGGCTGCGC  
 CTCCCGACTCCAACATTGACTACCCATGGCCACGGGTGATGGCGCAAGACCCTGGCCATCCACGTGA  
 AGGCCCTGACGGCAGACTCCATCCGCATCACGTGGAAGGCCACGCTCCCGCCTCCTTTCCGGCTCAG  
 TTGGCTGCGCCTGGGCCACAGCCAGCCGTGGCTCCATCACGGAGACCTTGGTGCAGGGGGACAAGACA  
 GAGTACCTGCTGACAGCCCTGGAGCCAAAGTCCACCTACATCATCTGCATGGTACCATGGAGACCAGCA  
 ATGCTACGTAGCTGATGAGACACCCGTGTGTGCAAGGCAGAGACAGCCGACAGCTATGGCCCTACCAC  
 CACTCAACCAGGAGCAGAACGCTGGCCCATGGCGAGCCTGCCCTGGCGGGCATCATCGCGGGGCA  
 GTGGCTCTGGTCTTCTTCTTCTGGTCTGGGGCCATCTGCTGGTACGTGCACCAGGCTGGCGAGCTGC  
 TGACCCGGGAGAGGGCCTACAACCGGGGAGCAGGAAAAAGGATGACTATATGGAGTCAGGGACCAAGAA  
 GGATAACTCCATCCTGGAATCCGCGGCCCTGGCTGCAGATGCTGCCATCAACCCGTACCGCGCCAAA  
 GAGGAGTACGTGGTCCACTATCTTCCCTCCAACGGCAGCAGCCTCTGCAAGGCCACACACACCATTTG  
 GCTACGGCACCACGCGGGCTACCGGGACGGCGCATCCCGACATAGACTACTCTACACA

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG204557 representing NM\_013280  
Red=Cloning site Green=Tags(s)

```
MVVAHPTATATTTPTATVTATVMTTATMDLRDWLFLCYGLIAFLTEVIDSTTCPSVCRCDNGFIYCNDR
GLTSIPADIPDDATTLYLQNNQINNAGIPQDLKTKVNVQVIYLYENDLDEFFINLPRSLRELHLQDNNVR
TIARDSLARIPLLEKLHLDNNSVSTVSI EEDAFADSKQLKLLFLSRNHLSSIPSGLPHTLEELRLDDNRI
STIPLHAFKGLNSLRRLVLDGNLLANQRIADDTFSRLQNLTELSLVRNSLAAPPLNLPSAHLQKLYLQDN
AISHIPYNTLAKMRELERLDLSNNLTTLP RGLFDDLGNLAQLLLRNNPWFCGCNLMWLRDWVKARA AVV
NVRGLMCQGPEKVRGMAIKDITSEMDEC FETGPQGGVANAAAKTTASNHASATTPQGS LFTLKAKRPGLR
LPDSNIDYPMATGDGAKTLAIHVKALTAD SIRITWKATLPASSFRLSWLRLGHSPAVGSITETLVQGDKT
EYLLTALEPKSTYIICMVTMETS NAYVADETPVCAKAETADSYGPTTTLNQE QNAGPMASLPLAGIIGGA
VALVFLFLVLGAICWYVHQAGELLTRERAYNRGSRKKDDYME SGTKKDNSILEIRG PGLQMLPINPYRAK
EEYVVHTIFPSNGSSLCKATH TIGYGTTRGYRDGGIPDIDYSY T
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013280

**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\\_013280.4](#), [NP\\_037412.2](#)

**RefSeq Size:** 3252 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 23769

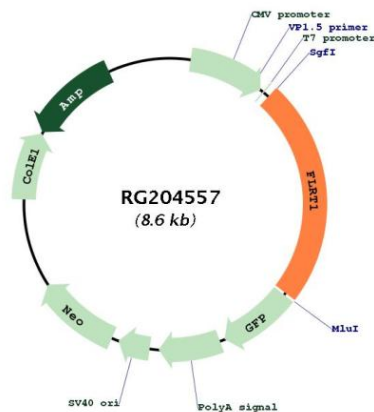
**UniProt ID:** [Q9NZU1](#)

**Cytogenetics:** 11q13.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a member of the fibronectin leucine rich transmembrane protein (FLRT) family. The family members may function in cell adhesion and/or receptor signalling. Their protein structures resemble small leucine-rich proteoglycans found in the extracellular matrix. The encoded protein shares sequence similarity with two other family members, FLRT2 and FLRT3. This gene is expressed in kidney and brain. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG204557