

Product datasheet for **RG221300**

C9ORF4 (FRRS1L) (NM_014334) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C9ORF4 (FRRS1L) (NM_014334) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FRRS1L
Synonyms: C9orf4; CG-6; CG6; DEE37; EIEE37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221300 representing NM_014334
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCAGACCGAGGCAGGGAGGCGGGGTGCGGGAGGCTCCGCGGCTGCGGGCGCGTGCTGGTGGCC
 TCGGGGAGGCTCAGTCCCGGCCGCGCCCGCGGCCCGCTGCGGCCGAGCGGCTGGCTGCGGGA
 TCTGTGCGCAGCGATGGCGGGCCGCCCGGCAGCACCCGGGGTCTGGGCGTCGCTGCTCTGCTGCTA
 CTGACGGGGCCCGCCCTGCGCAGCCAGCCCCGCGGACGACGGTGCGGGCCCGGGGGCCGGGACCCC
 GGGGACGCGCGGGGGACACGGGCGCCGACGAGGCGGTGCCGCGCCACGACTCCTCCTACGGCACCTT
 CGCGGGGAGTTCTACGACTGCGCTACCTGTCGGAGGAGGTTACCCCTTCCCTACTGCTCCTCCTGTG
 GATCCATTTGCCAAAATCAAAGTGGACGACTGTGAAAACTAAGGGATGCTTTAGATATGGCAAACAG
 GCTGTAATGCAGAGACCTGTGACTATTTCTCAGTACCGGATGATAGGGGCTGATGTAGAATTTGAGCT
 GAGTGCAGACACAGATGGTTGGGTAGCAGTTGGATTCTCTCAGACAAGAAAATGGGTGGTATGATGTC
 ATGGCCTGCGTCCATGATGACAATGGCAGGGTCCGCATACAGCACTTCTATAATGTAGGCCAGTGGGCAA
 AGGAGATTCAGAGAAACCCTGCCAGAGATGAAGAAGGAGTTTTTGAACAATCGCGTCACTGCAGATT
 TAAACGCCCTGTGAATGTTCCAGAGATGAAACAATTGTTGATCTGCATTTGAGTTGGTATTATCTGTT
 GCTTGGGTCCAGCCATTCAGGGCTCTACTCGACATGATATAGACTACCCCGGCTTCAGAGCGTG
 TTGTCAGTATTTACAAGTATGAAGACATTTTATGCCATCAGCTGCCTATCAAACCTTCTCATCTCCATT
 TTGTTGCTTCTGATTGTTGCTCTGACCTTCTACCTATTGATGGGAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221300 representing NM_014334
 Red=Cloning site Green=Tags(s)

MRRPRQGGGGAGGSAAARARAGGLGGGSVPARARGAPAAARAAWLRDLCAAMARPPRQHPGVWASLLLL
 LTGPAACAASPADDGAGPGGRGRPRARGDTGADEAVPRHDSSYGTFFAGEFYDLRYLSEEGYFPPTAPPV
 DPFKIKVDDCGKTKGCFRYGKPGCNAETCDYFLSYRMIGADVEFELSADTDGWAVVGFSSDKKMGDDV
 MACVHDDNGRVRIQHFYNVGQWAKEIQRNPARDEEGVFENNRVTCRFKRPVNVPRDETIVDLHLSWYYLF
 AWGPAIQGSITRHDIDSPPASERVVSIYKYEDIFMPSSAAYQTFSSPFCLLLIVALTFYLLMGTP

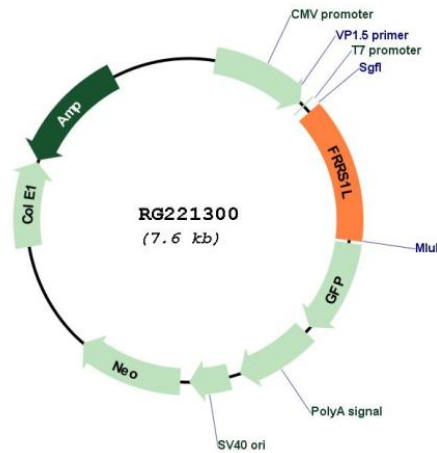
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_014334

ORF Size: 1032 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:	<ol style="list-style-type: none">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_014334.1 , NP_055149.1
RefSeq Size:	1133 bp
RefSeq ORF:	882 bp
Locus ID:	23732
UniProt ID:	Q9P0K9
Cytogenetics:	9q31.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a component of the outer-core of an alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor protein in the brain. The encoded protein is thought to interact with inner-core components of the receptor, and play a role in the modulation of glutamate signaling. Mutations in this gene are associated with early infantile epileptic encephalopathy 37. [provided by RefSeq, Jul 2016]