

Product datasheet for **RG222138**

CYFIP2 (NM_001037333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP2 (NM_001037333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYFIP2
Synonyms:	EIEE65; PIR121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222138 representing NM_001037333 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCCTCCCCG
ACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAAAATTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAAT
GAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTC
CCCAGGTGAAATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCC
GGAGGTCACCAAGCTCATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTG
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TCATCAACATGTTTGTCTCCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGC
CTACAAGAGGGCAGCACAGTTCTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTT
TCCATGTTCTCTGGCCAACCACAACAGGATCACCCAGTGTCTCCACCAGCAACTTGAAGTGATCCCAGGCT
ATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGATTACTACGAGAACAAGATGTACCTGACTCC
CAGTGAGAAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTACCTAATGGATGGAAATGTCAGTAAC
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GAACAAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGAGCAGATGGTT
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CTGCGTGAGCCCCTGCGGCAGGCGGTACGGAAGAAGAAGTGTCTCATCAGCGTCTACAGGCAATTC
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ACAATGAGGTTTTTGCCATCCTGAACAAATACATGAAAGTCCGTGGAGACAGACAGTTCCTACTGTGGAGCA
TGTGCGCTGCTTCCAGCCACCCATCCACCAGTCTTGGCCACCACTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222138 representing NM_001037333
 Red=Cloning site Green=Tags(s)

MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMN
 EMLEEGHEYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTVLEVEPEVTKLMKFMFYQRKAIERFCSEV
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 SMFLANHNRIQTCLHQQLEVIPGYEELLADIVNICVDYENKMYLTPSEKHMLLKVMGFGLYLMDGNVSN
 IYKLDAAKRINLSKIDKFFKQLQVVPFLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPOYNICEQMV
 QIRDDHIRFISELARYSNSEVVTGSGLDSSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTD
 KFCNKDCPGTAAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVT
 LREPLRQAVRKKKNVLISVLQAIRKTI CDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRVRGSPSTQLYM
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 ISAAMYKSLDQAISRFESEDLTSIVLEWLL E INRLTHRLLCKHMTLDSFDAMFREANHNVSAPYGRITL
 HVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQEPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFVGP
 PHFKTICRLLGYQGI AVVMEELLKIVKSLLQGTILQYVKT LIEVMPKICRLPRHEYGSPGILEFFHHQLK
 DIIEYAE LKTDV FQSLREVGNAILFCLLIEQALSQEEVCDLLHAAPFQNILPRVYIKEGERLEVRMKRLE
 AKYAPLHLVPLIERLGT PQQIAIAREGDL LTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTNGVMHV
 DECVEFHRLWSAMQFVYCI PVGTNEFTAECQCFGDGLNWAGCSII VLLGQQRRFDLDFCYHLLKVQRQDG
 KDEI IKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPPIHQSLATTC

TRTRPLE - GFP Tag - V

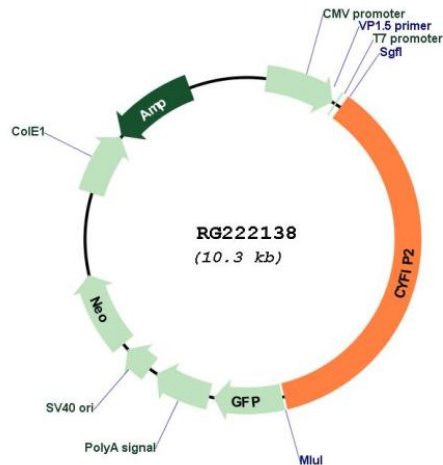
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037333

ORF Size: 3759 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_001037333.3](#)

RefSeq Size: 6498 bp

RefSeq ORF: 3762 bp

Locus ID: 26999

UniProt ID: [Q96F07](#)

Cytogenetics:	5q33.3
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	Involved in T-cell adhesion and p53/TP53-dependent induction of apoptosis. Does not bind RNA. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity).[UniProtKB/Swiss-Prot Function]