

Product datasheet for **RG234173**

FGGY (NM_001244714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGGY (NM_001244714) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGGY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234173 representing NM_001244714 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTGGTGGAGAACAGAAACCAGAGAGGTACTATGTGGGTGTGGACGTTGGAACAGGCAGTGTCCGTG
CAGCTCTGGTGGACCAGAGTGGGTCTGTGGCTTTGACAGCCAGCAATTAAGAATTGGGAGCCCCA
GTTCAACCACCATGAGCAGTCTCCGAGGACATCTGGGCTGCGTGCTGTGTTGTCACAAAGAACTTGAGA
GAGATTGCTGGGATAAGGCGGGACATTTCTTTGATCTCCCGACTTCTTATCGTGAAGGCAACAGGTG
TCACAGCACGGTCTCTCTGCTCCCTGGTGTGTAAGTGGACATATTCAGCAGAGAAAGGCTGGGACGACAG
TTTCTGGAAAATGATTGGTTTGGAAAGACTTTGTTGCAGATAATTACAGCAAAATAGGAAACCAAGTGCTA
CCTCCTGGAGCTTCTCTTGGAAATGGGCTCACACCAGAGGCAGCAAGAGACCTTGGCCTTCTCCCTGGGA
TTGCGGTGCGAGCTTCACTCATTGATGCCATGCAGGAGGACTAGGAGTGATTGGGCGAGATGTGAGAGG
GCACGGCCTCATCTGTGAGGGGCGAGCCAGTGACGTACGGCTGGCTGTCATCTGTGGAACGTCTTCTGT
CACATGGGGATCAGCAAAGACCCGATTTTGTACCAGGCGTCTGGGGCCTTATTTCTCAGCCATGGTAC
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TGCTGCTTTTCCAGAACTACAAGTAAAGGCCACAGCCAGATGCCAGAGTATATGCATATTTGAACAGT
CACCTGGATCTGATTAAGAAGGCTCAGCCTGTGGGTTTCTTACTGTTGATTTACATGTTTGGCCAGATT
TCCATGGCAACCGGTCTCCCTTAGCAGATCTGACACTAAAGGGCATGGTCACCGGATTGAAACTGTCTCA
GGACCTTGATGATCTTGCCATTCTACCTGGCCACAGTTCAAGCCATTGCTTTGGGGACTCGCTTCATT
ATAGAAGCCATGGAGGCAGCAGGGCACTCAATCAGTACTCTTTTCCTATGTGGAGGCCTCAGCAAGAATC
CCCTTTTGTGCAAAATGCATGCGGACATTACTGGCATGCCTGTGGTCTGTGCGAAGAGGTGGAGTCCGT
TCTTGTGGGTGCTGCTGTTCTGGGTGCCTGTGCCTCAGGGGATTCGCTTCTGTACAGGAAGCAATGGCA
AAAATGAGCAAAGTTGGGAAAGTTGTGTTCCCGAGACTACAGGATAAAAAATACTATGATAAGAAATACC
AAGTATTCCTGAAGCTGGTTGAACACCAGAAGGAGTATTTGGCGATCATGAATGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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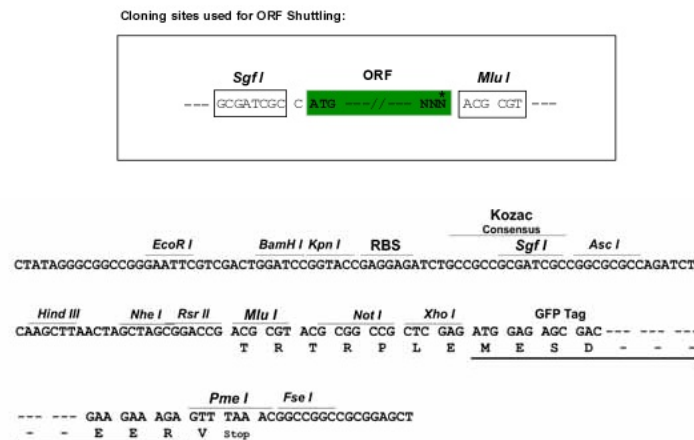
Protein Sequence: >RG234173 representing NM_001244714
 Red=Cloning site Green=Tags(s)

MSGGEQKPERYYVGVDTGSGVRAALVDQSGVLLAFADQPIKNWEPQFNHHEQSSEDIWAACCVVTKNLR
 EICWDKAGHFFDLPDFLSWKATGVTARSLCSLVCKWTYSAEKGWDDSFWMIGLEDFVADNYSKIGNQVL
 PPGASLGNGLTPEAARDLGLLPPIAASLIDAHAGGLGVIGADVVRHGLICEGQPVTSRLAVICGTSSC
 HMGISKDPIFVPGVWGPYFSAMVPGFWLNEGGQSVTGKLDHMQVGHAAFPQLVKATARCQSIYAYLNS
 HLDLIKKAQPVGFLTVDLHVWPDFHGNRSPLADLTGKGMVTGLKLSQDLDDLAILYLATVQAIALGTRFI
 IEAMEAAGHSISTLFLCGGLSKNPLFVQMHADITGMPVVLSEVESVLVGA AVLGACASGDFASVQEAMA
 KMSKVGKVVFPRLQDKKYDKKYQVFLKLVEHQKEYLAIMNDD

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001244714

ORF Size: 1389 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_001244714.2

RefSeq Size: 1665 bp

RefSeq ORF: 1392 bp

Locus ID: 55277

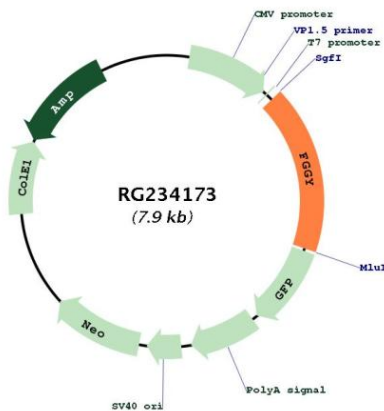
UniProt ID: Q96C11

Cytogenetics: 1p32.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that phosphorylates carbohydrates such as ribulose, ribitol, and L-arabinitol. Genome-wide association studies in some populations have found an association between polymorphisms in this gene and sporadic amyotrophic lateral sclerosis, but studies of other populations have not been able to replicate this association. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RG234173