

Product datasheet for **RG216822**

FLYWCHI (NM_020912) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FLYWCHI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216822 ORF sequence, **codon optimized**.
Due to the complexity of NM_020912, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCCCTGCCGAACCAAGCAACAGGAAGGAGTCTGTCAAAGCCGGCCAAGAGCCTAGCCCCAAC
CCGGAACAGATGTGATCCCGCCGCCCTCGAAACCAAGGGAGTTCTCTAAGCTCGTCCTCTTACGGC
CTCAGACCAAGATGAGGACGGAGTGGGATCCAAGCCGAGGAGGTGCACTGTGTGCTGCTACTCGAATG
GCGGGGCCGCCACCTTGCCAGTACACTTCAGATACTCCCGTCGAAGAGCAGGGAGGGTGGTACAAC
CCGCCCTCGAGATGCCTGAACAAAAGTGCAGTAACTGGACGCCGCTCCCGAGTCACTCGAATTCCTTCG
CACACGTTCCGGTGGGAGACTTCTCGTCCTTGAAGTTTCTTGTATAAGCAGGAAAAGGCTGTAGGGGAC
AAGGTCTACTGGAATGTAGACAGCACGAGAAGTTCGGTTGTGCGGCCCGGGCTATCACCCGGGGCTGA
GAGCCACAGTGTGAGAGGACATTGTACGCCCCGGACGAACAGGGTCTGGAGGCTAGGAGGCAGCGCA
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CCTACTGCCACCAGCCAGACATGGAGGGCCTGGAGGCGCGACGGCAGCAAGAGAAAGCCGTAGAAACACTG
CAGGCAGGCCAGGACGGCCAGGCAGCCAGGTTGACACACTGCTCCGCGGCTGGATAGCTTGTGTACA
GAAGAGGACCAGGGCCCTCACACTGACAAGACCTCGCCCCAGAAAACGAGCTAAAGTTGAGGACCAAGA
GTTGCCGACACAGCCAGAGGCACCCGACGAACACAGGATATGGACGCGGACCTGGCGGACCCGAGTTT
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CGGGAGAAGCGCCCAATACCGCGCAAAGGGGATCACCCGGGGGGCCAGAGTTCTCAAGACGCCCTTG
GAGGCTCATTCTGGTCTATGAATCATTCTTTATAGACGCGAGAAGGCCGCTGGGGAAGGTCTATTG
GACTTGCAGAGATCAGGCTCGAATGGGCTGTGCTCTCGGGCCATCACTCAGGGCCGCCGCTTATGGTT
ATGCGCAGGCATTGTACCCCCCGACTTGGGCGGACTCGAGGCCCTGCGACAGAGGGAGCACTTCCCAA
ACTTGGCACAGTGGGATTCCCGGATCCCTTGAGGCCCTTGAATTCTTGGCACCAAGCCTTGGGGGCCG
CTTCTGGTGCATGAATCCTTCTGTATCGAAAGAGAAAGCTGCCGGCGAAAAAGTCTATTGGATGTGT
CGGGATCAGGCCAGACTGGGTGTGCGAGTCGCGCCATAACCCAGGGCCACAGGATCATGGAATGCGAT
CTCATTGTACACAGCCGACCTGGCTGGGTGGAAGCCCTGAGACAGCGGAAAGGCTTCCGACAACAGC
ACAACAAGAAGATCCAGAAAAATCCAGGTGCAACTGTGCTTTAAACCTGCAGTCCCGAAAGCCAGCAG
ATCTATGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216822 representing NM_020912

Red=Cloning site Green=Tags(s)

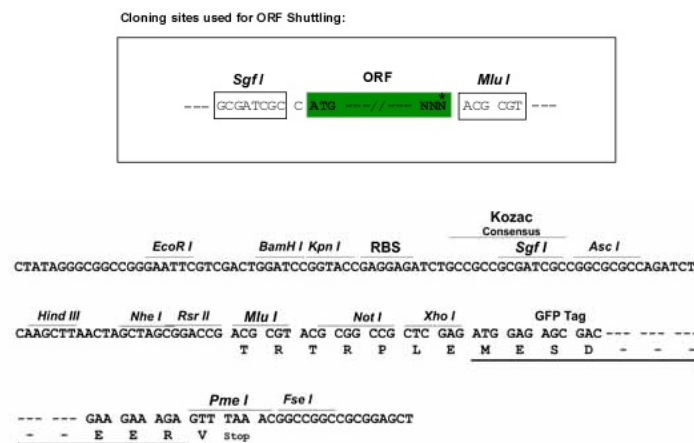
MPLPEPSEQEGESVKAGQEPSKPGTDVIPAAPRKPREFSKLVLLTASDQDEDGVGSKPQEVHCVLSLEM
AGPATLASTLQILPVVEEQGGVVQPALEMPKCSKLDAAQSLFLRTPFGGRLLVLESFLYKQEKAVGD
KVVWKCQRQHAELGCRGRAITRGLRATVMRGHCHAPDEQGLEARRQREKLPSLALPEGLGEPQGGPGGR
VEEPLEGVGPWQCPPEEPTPGLVLSKPALEEEEAPRALSLSLPPKKRSILGLQARPLEFLRTCYGG
FLVHESFLYKREKAVGDKVYWTCDHALHGCRSRAITQGQRTVMRGHCHQPDMEGLEARRQEKAVETL
QAGQDGPQSVDTLRLRGVDSLRYRRGPGPLTLTRPRPRKRAKVEDQELPTQPEAPDEHQDMDADPGGPEF
LKTPLGGSFVYVESFLYRREKAAGEKVYWTCDQARMGCRSRAITQGRRTVMRGHCHPPDLGGLEALRQ
REKRPNATQRGSPGGPEFLKTPPLGGSFLVYVESFLYRREKAAGEKVYWTCDQARMGCRSRAITQGRVMV
MRRHCHPPDLGGLEALRQREHFPNLAQWDSPLRPLEFLRTSLGGRFLVHESFLYRREKAAGEKVYWM
RDQARLGCRSRAITQGHIMVMRSHCHQPDLAGLEALRQRELRPTTAQEDPEKIQVQLCFKTCSPESQ
IYG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_020912

ORF Size:

2109 bp

OTI Disclaimer:

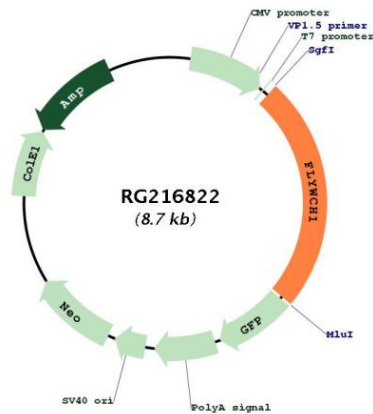
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020912.1 , NP_065963.1
RefSeq Size:	2555 bp
RefSeq ORF:	2112 bp
Locus ID:	84256
UniProt ID:	Q4VC44
Cytogenetics:	16p13.3

Product images:



Circular map for RG216822