

Product datasheet for **RG205182**

FLYWCHI (NM_032296) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence: >RG205182 ORF sequence, **codon optimized**.
Due to the complexity of NM_032296, 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**CGCATCGCC**

ATGCCCTTCCGAACCTTCCGAGCAGGAGGGCGAGTCAGTAAAAGCTGGGCAGGAGCCTAGTCCTAAAC
CGGGAACAGACGTCATCCTGCTGCTCTAGAAAAGCCAGGGAATTCATAAACTCGTACTTCTGACAGC
CTCCGATCAAGATGAGGACGGGTGGGAAGTAAGCCTCAGGAAGTCCACTGTGTTCTGTCCCTGGAATG
GCAGGCCCTGCGACATTGGCTCTACTCTGCAGATTCTGCCAGTAGAGGAGCAGGGCGGCGTGGTGCAGC
CGGCCCTGGAGATGCCGAGCAGAAGTGTCAAACTGGACGCTGCACCTCAATCCCTTGAGTTCCTTCG
CACGCCGTTCCGGCGGCCCTCTGGTTCTGGAGAGCTTCTTGTAACAAGCAAGAAAAGGCGGTGGGCGAT
AAAGTGTACTGGAAGTGTAGACAGCATGCAGAGCTGGGCTGCCGGGGCAGAGCTATTACAGAGGACTGC
GGGCCACCGTGTATGCGAGGCCATTGTACGCCCCCGACGAACAGGGCCTGGAGGCTAGGCGGCAACGCGA
GAAGTCCCTTCTCTCGCCCTGCCAGAAGGACTCGGCAACCTCAGGGGCCAGAAGGCCCTGGCGGAAGA
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AAAACGCTCTATCCTTGGCCTTGGGAGGCCAGACCTCTGGAGTTTCTGAGGACTTGTACGGAGGGTCC
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GCACTGCCACCAGCCGACATGGAAGGACTTGAAGCTAGACGACAACAGGAGAAGGCCGTTGAAACTCTG
CAGGCCGGCCAGGATGGGCCCGGCTCCCAAGTCGACACACTGCTGAGAGGTGTGCACTCACTGCTGTATA
GACGCGGTCTGGACATTGACACTTACGAGGCCAAGACCACGAAGAGGGCCAAAGTAGAGGACCAGGA
GCTGCCAACCCAGCCGGAGGCCACCATGAGCATCAAGACATGGACGCGGACCCCGCGGACCTGAGTTT
CTCAAAACACCACTGGGCGGAAGTTTTCTGTTTACGAGAGCTTCTGTATAGGCGCGAAAAAGCAGCAG
GAGAAAAGGTGATTGGACTTGTAGGGATCAAGCCAGAATGGGTTGAGAAGCAGGGCAATCACACAGGG
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AGAGAGAAAAGGCCCAACACAGCTCAGAGGGGACGCCGGGGGACCTGAATTCCTCAAGACTCCATTGG
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GTTCTTGGTGACGAGTCTTCTGTATAGAAAGGAAAAAGCCGCTGGCGAGAAGGTGTACTGGATGTGC
CGGGACCAAGCCAGGTTGGTGTAGGTCTAGGGCCATAACTCAGGGTCACAGGATTATGGTGTAGAT
CTCACTGCCATCAGCCAGACCTGGCCGACTCGAGGCTCTGAGACAGCGGGAACGGCTGCCCACTACTGC
GCAACAGGAAGACCCAGAAAAAATTCAGGTCCAACCTGTGTTCAAGACCTGCAGCCCTGAGTCCCAGCAG
ATATATGGGACATAAAAGATGTCCGACTTGACGGCGAGTCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205182 representing NM_032296

Red=Cloning site Green=Tags(s)

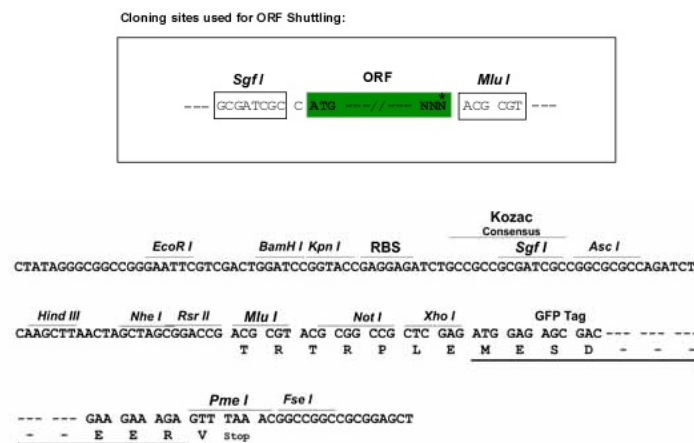
MPLPEPSEQEGESVKAGQEPSKPGTDVIPAAPRKPREFSKLVLLTASDQDEDGVGSKPQEVHCVLSLEM
AGPATLASTLQILPVEEQGGVVQPALEMPKCSKLDAAQSLFLRTPFGGRLLVLESFLYKQEKAVGD
KVVYWKCRQHAELGCRGRAITRGLRATVMRGHCHAPDEQGLEARRQREKLPSLALPEGLGEPQGPEGGGR
VEEPLEGVGPWQCPEEPEPTPGLVLSKPALEEEEAPRALSLSLPPKKRSILGLQARPLEFLRTCYYGS
FLVHESFLYKREKAVGDKVYWTCDHALHGCRSRAITQGQRTVMRGHCHQPDMEGLEARRQEKAVETL
QAGQDGPQSVDTLRLRGVDSLRYRRGPGPLTLTRPRPRKRAKVEDQELPTQPEAPDEHQDMDADPGGPEF
LKTPLGGSFVYVESFLYRREKAAGEKVYWTCDQARMGCRSRAITQGRRTVMRGHCHPPDLGGLEALRQ
REKRPNATQRGSPGGPEFLKTPPLGGSFLVYVESFLYRREKAAGEKVYWTCDQARMGCRSRAITQGRVMV
MRRHCHPPDLGGLEALRQREHFPNLAQWDSPLRLPLEFLRTSLGGRFLVHESFLYRREKAAGEKVYWMC
RDQARLGCRSRAITQGHIRMVMRSHCHQPDLAGLEALRQRELRPTTAQEDPEKIQVQLCFKTCSPESQ
IYGDIKDVRLDGESEQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_032296

ORF Size:

2145 bp

OTI Disclaimer:

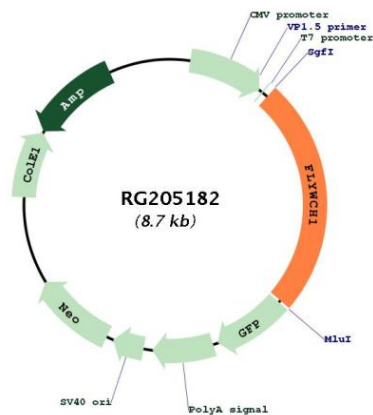
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_032296.2 , NP_115672.2
RefSeq Size:	5009 bp
RefSeq ORF:	2148 bp
Locus ID:	84256
UniProt ID:	Q4VC44
Cytogenetics:	16p13.3
Domains:	FLYWCH

Product images:



Circular map for RG205182