

## Product datasheet for **RG228255**

### FHL1 (NM\_001159702) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FHL1 (NM_001159702) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FHL1
Synonyms:	FCMSU; FHL-1; FHL1A; FHL1B; FLH1A; KYOT; RBMX1A; RBMX1B; SLIM; SLIM-1; SLIM1; SLIMMER; XMPMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228255 representing NM_001159702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGAAGTTTGACTGCCACTACTGCAGGGATCCCTTGCAGGGGAAGAAGTATGTGCAAAAGGATG  
GCCACCACTGCTGCCTGAAATGCTTTGACAAGTTCTGTGCCAACACCTGTGTGGAATGCCCAAGCCCAT  
CGGTGCGGACTCCAAGGAGGTGCACTATAAGAACCCTTCTGGCATGACACCTGCTTCCGCTGTGCCAAG  
TGCCTTCACCCCTTGCCAATGAGACCTTTGTGGCCAAGGACAACAAGATCCTGTGCAACAAGTGCACCA  
CTCGGGAGGACTCCCCAAGTGAAGGGGTGCTTCAAGGCCATTGTGGCAGGAGATCAAAACGTGGAGTA  
CAAGGGGACCGTCTGGCACAAGACTGCTTCACTGTAGTAAGTCAAGCAAGTCATCGGGACTGGAAGC  
TTCTTCCCTAAAGGGGAGGACTTCTACTGCGTGACTTGCCATGAGACCAAGTTTGCCAAGCATTGCGTGA  
AGTGCAACAAGGCCATCACATCTGGAGGAATCACTTACCAGGATCAGCCCTGGCATGCCGATTGCTTTGT  
GTGTGTTACCTGCTCTAAGAAGCTGGCTGGCAGCGTTTACCCTGTGGAGGACCAAGTATTACTGCGTG  
GATTGCTACAAGAAGTTTGTGGCAAGAAGTGTGCTGGATGCAAGAACCCCATCACTGGGAAAAGGACTG  
TGTCAAGAGTGAGCCACCCAGTCTCTAAAGCTAGGAAGCCCCAGTGTGCCACGGGAAACGCTTGCCCTC  
CACCTGTTTCCCAGCGCAACCTCCGGGGCAGGCATCCGGGTGGAGAGAGGACTTGTCCCTCGTGGGTG  
GTGGTTCTTTATAGAAAAATCGAAGCTTAGCAGCTCCTCGAGGCCCGGGTTTGGTAAAGGCTCCAGTGT  
GGTGGCCTATGAAGGACAATCCTGGCACGACTACTGCTTCCACTGCAAAAAATGCTCCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228255 representing NM\_001159702  
 Red=Cloning site Green=Tags(s)

MAEKFDCHYCRDPLQGKKYVQKDGHHCLKCFDKFCANTCVECCKPIGADSKVEVHYKNRFWHDTCFRCAK  
 CLHPLANETFFVAKDNKILCNKCTTREDSPKCKGCFKAIVAGDQNVVEYKGTVWHKDCFTCSNCKQVIGTGS  
 FFPKGEDFYCVTCHETKFAKHCVKCNKAITSGGITYQDQPHWADCFVCVTCSSKLAGQRF TAVEDQYYCV  
 DCYKNFVAKKACGCKNPITGKRTVSRVSHPVSKARKPPVCHGKRLPLTLFPSANLRGRHPGGERTCPSWV  
 VVLYRKNRSLAAPRGPGLVKAPVWWPMKDNPGTTTASTAKNAP

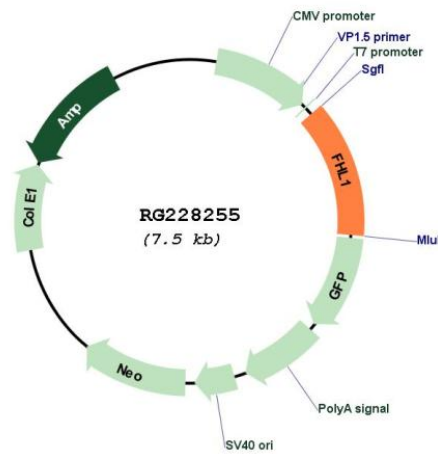
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001159702

<b>ORF Size:</b>	969 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001159702.3</a>
<b>RefSeq Size:</b>	2495 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	2273
<b>UniProt ID:</b>	<a href="#">Q13642</a>
<b>Cytogenetics:</b>	Xq26.3
<b>Gene Summary:</b>	<p>This gene encodes a member of the four-and-a-half-LIM-only protein family. Family members contain two highly conserved, tandemly arranged, zinc finger domains with four highly conserved cysteines binding a zinc atom in each zinc finger. Expression of these family members occurs in a cell- and tissue-specific mode and these proteins are involved in many cellular processes. Mutations in this gene have been found in patients with Emery-Dreifuss muscular dystrophy. Multiple alternately spliced transcript variants which encode different protein isoforms have been described.[provided by RefSeq, Nov 2009]</p>