

Product datasheet for **RG229828**

ACT (FHL5) (NM_001170807) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ACT (FHL5) (NM_001170807) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FHL5 |
| Synonyms: | 1700027G07Rik; ACT; dj393D12.2; FHL-5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG229828 representing NM_001170807 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAACTGCTCACTTTTACTGTCAACTACTGCACAGCATCACTTCTTGGGAAGAAATGTACTAAAGG
ATGACAGTCCATACTGTGTACATGTTATGATCGTGTATTTTCTAACTATTGCGAGGAATGCAAAAAACC
AATTGAATCTGATTCTAAGGATCTTTGTTACAAAGACCGGCACTGGCATGAAGGATGCTTCAAGTGCACC
AAATGCAATCACTCTTTGGTGGAAAAGCCTTTTGTGCAAGGATGAGCGCCTGCTGTGCACGGAGTGCT
ATTCTAACGAGTGCTCCTCCAAGTGCTTCCACTGCAAGAGGACCATCATGCCTGGTCCCGCAAAATGGA
ATTTAAGGGAAACTACTGGCATGAAACCTGTTTTGTGTGTGAGAATTGCCGACAACCTATAGGGACAAAG
CCTTTGATCTCCAAGAGAGTGGCAATTATTGTGTGCCATGTTTTGAGAAGGAGTTTGTCTACTACTGCA
ACTTTTGTAAAGAGGTGATAACTTCAGGTGGGATAACATTTTGTGACCAGCTATGGCATAAAGAGTGTTT
TCTGTGTAGTGGCTGTAGGAAAGATCTCTGTGAAGAACAGTTCATGTCCAGAGACGACTATCCATTCTGC
GTGGACTGCTACAACCATCTTTATGCCAACAAGTGTGTAGCCTGTTCCAAACCCATTAGTGGTCTCACAG
GTGCCAAGTTTATCTGCTTTCAAGACAGCCAGTGGCATAGCGAATGCTTTAACTGCGGGAATGCTCTGT
CTCCTTGGTGGTAAAGGCTTCTGACCCAGAACAAGGAAATCTTCTGCCAAAAATGTGGCTCCGGAATG
GACTGACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229828 representing NM_001170807
 Red=Cloning site Green=Tags(s)

MTTAHFYCQYCTASLLGKKYVLKDDSPYCVTCYDRVFSNYCEECKPIESDSDLCKDRHWHEGCFKCT
 KCNHSLEVEKPF AAKDERLLCTECYSNECSSKCFHCKRTIMPGSRKMEFKGNYPWHETCFVCENCRQPIGTK
 PLISKESGNYCVPCEFEKFAHYCNFCCKVITSSGGITFCQDLWHKECFCLCSGCRKDLCEEQFMSRDDYPFC
 VDCYNHLYANKCVACSKPISGLTGAKFICFQDSQWHECFNCGKCSVSLVGKGFLLQNKEIFCQKCGSGM
 DTDI

TRTRPLE - GFP Tag - V

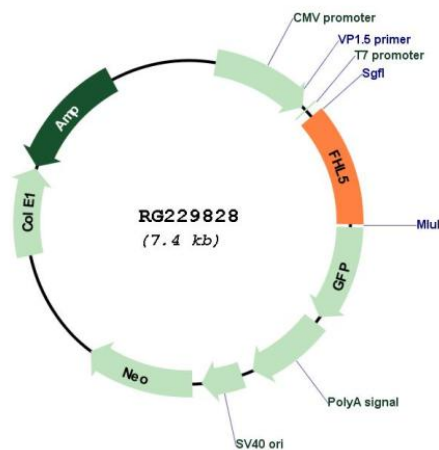
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001170807

ORF Size: 852 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001170807.2 , NP_001164278.1 |
| RefSeq Size: | 1904 bp |
| RefSeq ORF: | 855 bp |
| Locus ID: | 9457 |
| UniProt ID: | Q5TD97 |
| Cytogenetics: | 6q16.1 |
| Protein Families: | Druggable Genome |
| Gene Summary: | The protein encoded by this gene is coordinately expressed with activator of cAMP-responsive element modulator (CREM). It is associated with CREM and confers a powerful transcriptional activation function. CREM acts as a transcription factor essential for the differentiation of spermatids into mature spermatozoa. There are multiple polyadenylation sites found in this gene. Polymorphisms in this gene may be associated with susceptibility for migraine headaches. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Apr 2016] |