

## Product datasheet for **RG217692**

### **AFF4 (NM\_014423) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AFF4 (NM\_014423) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** AFF4  
**Synonyms:** AF5Q31; CHOPS; MCEF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217692 representing NM\_014423  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCGTGAAGACCGGAATGTGCTGCGTATGAAAGAACGGAAAGCGGAATCAGGAAATTCAGCAGG  
GCGAAGACGCCTCCCACCTAGCTCTCTCTTTGCAGAGCCATACAAAGTTACTAGCAAAGAAGATAA  
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GCCAACAAACAAATGGCAACTTGATAATTGGCTGAATAAAGTGAACCCACATAAAGTGTCACCCGCTCT



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TCAGTGGACAGTAACATCCCATCATCTCAAGGCTACAAAAAGGAAGGCCGAGAGCAGGGCACTGGGAATA  
GCTACACTGATACAAGTGGACCTAAAGAAACGAGTTCCGCTACTCCGGGACGAGACTCCAAAACCATCCA  
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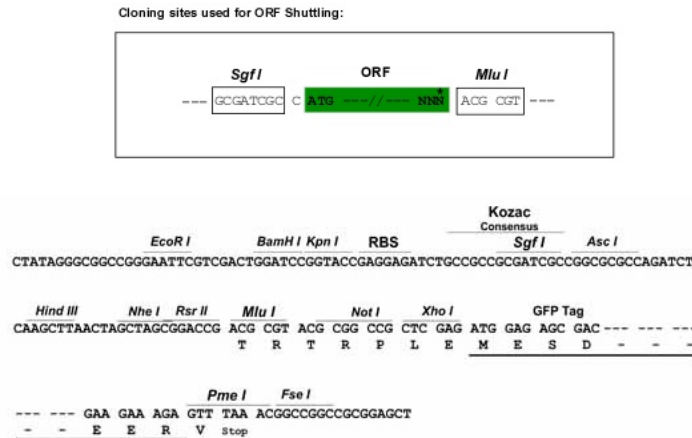
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217692 representing NM\_014423  
 Red=Cloning site Green=Tags(s)

MNREDRNLRMKERERRNQEIQQGEDAFPPSSPLFAEPYKVTSKEDKLSSRIQSMLGNYDEMDFIGDRS  
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 KSPRPDPANWDSRVPFSSGQHSTQSFPPSLMSKSNMLQKPTAYVRPMDGQESMEPKLSEHYSSQSH  
 GNSMTELPSSKAHLTKLKIPSQPLDASASGDVSCVDEILKEMTHSWPPPLTAIHPTCKTEPSKFPFPTK  
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 EDDNRASESKPKTEDKNSAGHKPSSNRESSKQSAAKEKDLLPSPAGVPSKDPKTEHGSRKRTISQSSS  
 LKSSSNSNKETSGSSKNSSTSKQKTEGKTSSSSKEVKEKAPSSSSNCPSPAPTLDDSSKPRRTKLVFDD  
 RNYADHYLQEAKKLKHADALDRFEKAVYYLDAVVSFIECGNALEKNAQESKSPFPMYSETVDLIKYT  
 MKLKNYLAPDATAADKRLTVLCLRCESLLYLRLFKLKENALKYSKTLTEHLKNSYNNQAPSPGLGSKA  
 VGMPSPVSPKLSPGNSGNYSSGASSASAGSSVTIPQKIHQMAASYVQVTSNFLYATEIWDQAEQLSKEQ  
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TRTRPLE - GFP Tag - V

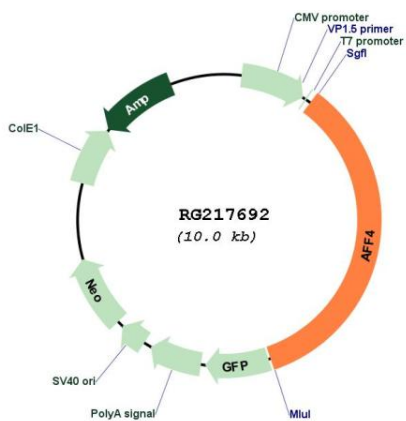
**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**ACCN:** NM\_014423  
**ORF Size:** 3489 bp

<b>OTI Disclaimer:</b>	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>
<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_014423.4</a>
<b>RefSeq Size:</b>	9528 bp
<b>RefSeq ORF:</b>	3492 bp
<b>Locus ID:</b>	27125
<b>UniProt ID:</b>	<a href="#">Q9UHB7</a>
<b>Cytogenetics:</b>	5q31.1
<b>Domains:</b>	AF-4
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the AF4 family of transcription factors involved in leukemia. It is a component of the positive transcription elongation factor b (P-TEFb) complex. A chromosomal translocation involving this gene and MLL gene on chromosome 11 is found in infant acute lymphoblastic leukemia with ins(5;11)(q31;q31q23). [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG217692