

Product datasheet for **MG224878**

Aff4 (NM_033565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aff4 (NM_033565) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aff4
Synonyms:	AF5Q31; Alf4; Laf4l; MCEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224878 representing NM_033565 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGAACCGTGAAGACCGGAATGTGCTGCGCATGAAAGAAAGGAAAGCGGAATCAGGAAATTCAGCAGG
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ATCCCATCTTCTCAAGCCTACAAGAAAGAAGGCCGGGAGCAGGGCACTGCCAGTAACTACACAGATCCAG
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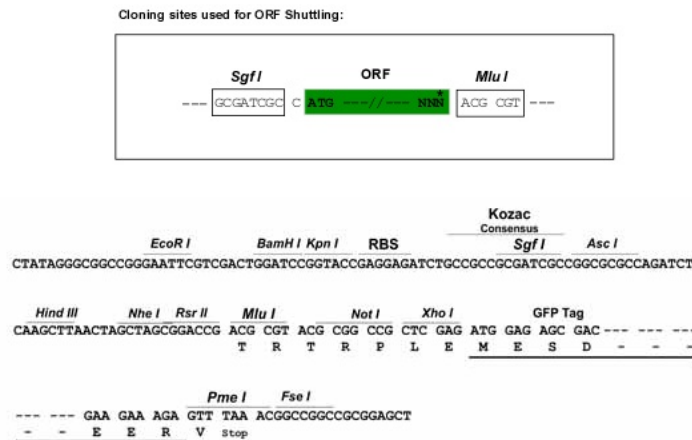
Protein Sequence: >MG224878 representing NM_033565
 Red=Cloning site Green=Tags(s)

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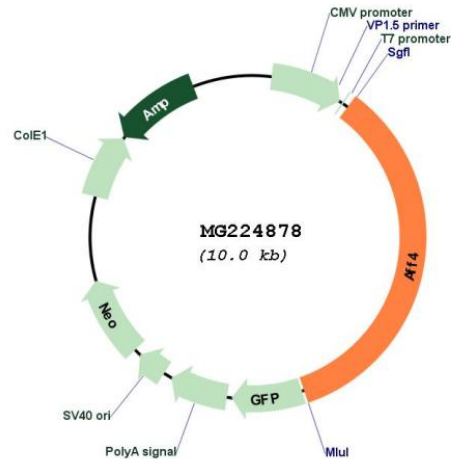
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033565

ORF Size: 3480 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.

RefSeq: [NM_033565.2](#), [NP_291043.1](#)

RefSeq Size: 10165 bp

RefSeq ORF: 3483 bp

Locus ID: 93736

UniProt ID: [Q9ESC8](#)

Cytogenetics: 11 B1.3

Gene Summary:

Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression (By similarity).[UniProtKB/Swiss-Prot Function]