

Product datasheet for **RG222638**

ATF3 (NM_004024) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATF3 (NM_004024) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATF3
Synonyms: activating transcription factor 3; ATF3deltaZip2; ATF3deltaZip2c; ATF3deltaZip3; OTTHUMP00000034887; OTTHUMP00000034890
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222638 representing NM_004024
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGATGCTTCAACACCCAGGCCAGGTCTCTGCCTCGGAAGTGAGTGCTTCTGCCATCGTCCCCTGCCTGT
CCCCTCTGGGTCACTGGTGTGGAGGATTTTGCTAACCTGACGCCCTTTGTCAAGGAAGAGCTGAGGTT
TGCCATCCAGAACAAGCACCTCTGCCACCGGATGTCTCTGCGCTGGAATCAGTCACTGTGAGCGACAGA
CCCCTCGGGGTGCCATCAGAAAGCCGAGGTAGCCCCTGAAGAAGATGAAAGGAAAAAGAGCGGACGAG
AAAGAAAATAGATTGCAGCTGCAAAGTCCGAAACAAGAAGAAGGAGAAGACGGAGTGCCTGCAGAAACT
CCCAAGGCCCTTTGGGTCCAGAAGACCTGCATATGGGCTGTTGACTCATGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222638 representing NM_004024
Red=Cloning site Green=Tags(s)
MMLQHPGQVSASEVSASAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSALESVTVSDR
PLGVSITKAEVAPEEDERKKRRRERNKIAAAKCRNKKKEKTECLQKLRPFVWQKTCIWAVDSCK

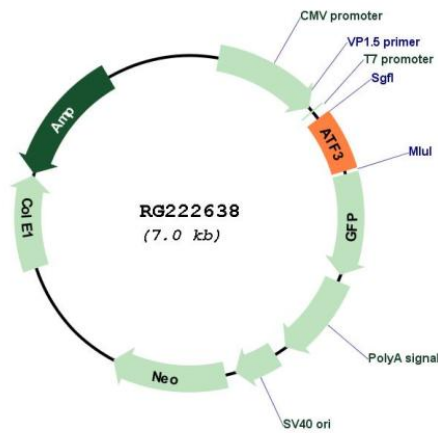
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_004024

ORF Size: 405 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:	<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:	<u>NM_004024.4, NP_004015.4</u>
RefSeq Size:	2270 bp
RefSeq ORF:	407 bp
Locus ID:	467
Cytogenetics:	1q32.3
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes. [provided by RefSeq, Apr 2011]