Product datasheet for KG215620

ATF3 (NM_001040619) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATF3 (NM_001040619) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATF3
Synonyms: FLJ41705
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 μg/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence:

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>RG215620 representing NM_001040619
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGGGATCCGACTGGATCCGGTACCGAGGAGATCTGCCGCC
GCCGCGATCGCC

ATGATGCTTCAACCCAGCCAGGGTGATGGATGTGCCTGCCTGCCTGCCATCGTCCCCTGCCTGT
GCCCTCTCTGGTCACTGTTGGACTTTGGAATTACTAACCTGACCGCTCTGGGGAGGAGGTGATCCGGGCC
GAGGAAGGCTGAGGTGGCCATCCAGAACAAGCACCTCTGCCACCGGATGTCCTCTGCGCTGGAATCAGTC
ATCTGTCAGCGACAGACCCCTCGGGGTGTCCATCACAAAAGCCGAGGTAGCCCTGAAGAAGATGAAAGGA
AAAAAGAGGCGACGAGAAAGAAATAAGATTGCAGCTGCAAAGTGCCGAAACAAGAAGAAGGAGAAGAC
GGAGTGCCTGCAGAAACTCCCAAGGCCCTTTTGGGTCCAGAAGACCTGCATATGGGCTGTTGACTCATG
CAAA

ACCGCTACGCCGCGCTGAG - GFP Tag - GTTAA

Protein Sequence:

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>RG215620 representing NM_001040619
Red=Cloning site Green=Tags(s)

MMLQHPGQVSASEVSAIAVPLSPPPGLFEDFANLPKFKEELRFIAQNKHLCRMSSALESVTVDTR
PLGVSTIAEVAPEERKKRRRERINKIAAACKRNKKKEKTECLQKLPFVWQKCTIWAQDSCK

TRTUPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:

Plasmid Map:

ACCN: NM_001040619
ORF Size: 405 bp
OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: NM_001040619.1, NP_001035709.1
RefSeq Size: 2361 bp
RefSeq ORF: 408 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]