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Product datasheet for RC205923L2V

ATF1 (NM_005171) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ATF1 (NM_005171) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ATF1
Synonyms:	EWS-ATF1; FUS/ATF-1; TREB36
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_005171
ORF Size:	813 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC205923).`
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.
RefSeq:	NM_005171.2
RefSeq Size:	2505 bp
RefSeq ORF:	816 bp
Locus ID:	466
UniProt ID:	P18846
Cytogenetics:	12q13.12
Domains:	pKID, BRLZ
Protein Families:	Druggable Genome, Transcription Factors

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MW: 29.2 kDa

Gene Summary: This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6. [provided by RefSeq, Aug 2010]