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Product datasheet for RC200081L2V

ATF5 (NM_012068) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ATF5 (NM_012068) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ATF5
Synonyms:	ATFX; HMFN0395
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_012068
ORF Size:	846 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200081).
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. <u>More info</u>
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:	<u>NM 012068.2</u>
RefSeq Size:	2293 bp
RefSeq ORF:	849 bp
Locus ID:	22809
UniProt ID:	<u>Q9Y2D1</u>
Cytogenetics:	19q13.33
Domains:	BRLZ
Protein Families:	Transcription Factors



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MW:	30.7 kDa
Gene Summary:	Transcription factor that either stimulates or represses gene transcription through binding or different DNA regulatory elements such as cAMP response element (CRE) (consensus: 5'-C[CT]TCT[CT]CCTT[AT]-3') but also the amino acid response element (ARE), present in many viral and cellular promoters. Critically involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation (PubMed:10373550, PubMed:15358120, PubMed:2122266, PubMed:20654631). Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4 (PubMed:15358120). Important regulator of the cerebral cortex formation, functions in cerebral cortical neuroprogenitor cells to maintain proliferation and to block differentiate (By similarity). Participates in the pathways by which SHH promotes cerebellar granule neuron progenitor cells proliferation (By similarity). Critical for survival of mature olfactory sensory neurons (OSN), directs expression of OSN-specific geness (By similarity). May be involved in osteogenic differentiation (PubMed:22442021). Promotes cell proliferation and survival by inducing the expression of EGR1 sinergistically with ELK1. Once acetylated by EP300, binds to ARE sequences on target genes promoters, such as BCL2 and EGR1 (PubMed:221791614). Plays an anti-apoptotic role through the transcriptional regulation of BCL2, this function seems to be cell type-dependent (By similarity). Cooperates with NR113/CAR in the transcriptional activation of CYP2B6 in liver (PubMed:1832083), In hepatic cells, represses CRE-dependent transcription and inhibits proliferation by blocking at G2/M phase (PubMed:22528486, PubMed:2879400). Upon IL1B stimulus, cooperates with NLK to activate the transcription factor, acts as a cofactor of CEBPA and promote adipocyte differentiation (PubMed:24216764). Regulates centrosome dynamics in a cell-cycle- and centriole-age-dependent manner. Forms 9-foci symmetrical ring scaffod around the mother centriole to control centrosome function and the interaction between c

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