

Product datasheet for MR223254L4

Atf1 (NM_007497) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Atf1 (NM_007497) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Atf1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR223254).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Mlu I GCG ATC GCC ATG NNN ACG CGT
	Kozak Consensus EcoR I BamH I RBS Sgf ORF

CTATAGGGCGGCCGGGAATTCGTCGGCGGATCGGCGGATCGCCGCGATCGC C ATG --- ---Mlu I ______ Not I _____ MGFP Tag _______ NNN ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- ----T R T R P L E ______ M S G G -- ---

--- GGA CTC AGA GTT TGG GTA GGA AGC

* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM_007497 807 bp

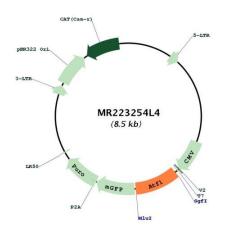


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ORIGENE Atf1 (NM_007497) Mouse Tagged Lenti ORF Clone – MR223254L4	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can 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.
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:	<u>NM 007497.3, NP 031523.3</u>
RefSeq Size:	2329 bp
RefSeq ORF:	810 bp
Locus ID:	11908
UniProt ID:	<u>P81269</u>
Cytogenetics:	15 F1
Gene Summary:	Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes. Represses the expression of FTH1 and other antioxidant detoxification genes. Triggers cell proliferation and transformation (By similarity).[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR223254L4

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