

Product datasheet for MR204653L3

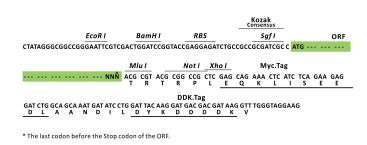
Atoh8 (NM_153778) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Atoh8 (NM_153778) Mouse Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Atoh8
Synonyms:	4933425C05Rik; bHLHa21; Hath6; Math6; okadin
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR204653).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Safi ORF Miui
	GCG ATC GC ATG // NNN ACG CGT



ACCN: ORF Size: NM_153778 966 bp



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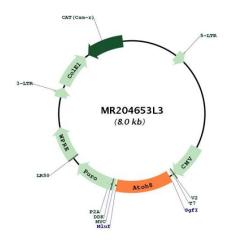
Serigene Atoh8 (NM_153778) Mouse Tagged Lenti ORF Clone – MR204653L3	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. 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	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 153778.3</u> , <u>NP 722473.1</u>
RefSeq Size:	2355 bp
RefSeq ORF:	969 bp
Locus ID:	71093
UniProt ID:	<u>Q99NA2</u>
Cytogenetics:	6 C1

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Transcription factor that binds a palindromic (canonical) core consensus DNA sequence 5'-Gene Summary: CANNTG- 3' known as an E-box element, possibly as a heterodimer with other bHLH proteins (By similarity). Regulates endothelial cell proliferation, migration and tube-like structures formation (By similarity). Modulates endothelial cell differentiation through NOS3 (By similarity). May be implicated in specification and differentiation of neuronal cell lineages in the brain (PubMed:11733035). May participate in kidney development and may be involved in podocyte differentiation (PubMed:16937370). During early embryonic development is involved in tissue-specific differentiation processes that are dependent on class II bHLH factors and namely modulates the differentiation program initiated by the pro-endocrine factor NEUROG3 (PubMed:18560595). During myogenesis, may play a role during the transition of myoblasts from the proliferative phase to the differentiation phase (PubMed:24186058). Positively regulates HAMP transcription in two ways, firstly by acting directly on the HAMP promoter via E-boxes binding and indirectly through increased phosphorylation of SMAD protein complex (By similarity). Repress NEUROG3-dependent gene activation in a gene-specific manner through at least two mechanisms; requires only either the sequestering of a general partner such as TCF3 through heterodimerization, either also requires binding of the bHLH domain to DNA via a basic motif (PubMed:23938248). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204653L3

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