

Product datasheet for MR225787L3

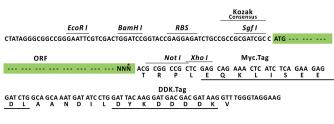
Auts2 (NM_177047) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:Expression PlasmidsProduct Name:Auts2 (NM_177047) Mouse Tagged Lenti ORF CloneTag:Myc-DDKSymbol:Auts2Synonyms:2700063G02Rik; A730011F23Rik; D830032G16RikMammalian Cell Selection:PuromycinVector:pLenti-C-Myc-DDK-P2A-Puro (PS100092)E. coli Selection:Chloramphenicol (34 ug/mL)ORF NucleotideThe ORF insert of this clone is exactly the same as(MR225787).
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ORF Nucleotide The ORF insert of this clone is exactly the same as(MR225787).
Sequence:
Restriction Sites: Sgfl-Notl
Cloning Scheme:
Cloning sites used for ORF Shuttling:
Sgf I ORF Not I GCG ATC GCC ATG NNN ACG GCGG CCGC TC



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

ACCN: ORF Size: NM_177047 3783 bp



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ORIGENE Auts2 ((NM_177047) Mouse Tagged Lenti ORF Clone – MR225787L3
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 <u>custsupport@origene.com</u> 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. <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.
RefSeq:	<u>NM 177047.3, NP 796021.2</u>
RefSeq Size:	6060 bp
RefSeq ORF:	3786 bp
Locus ID:	319974
UniProt ID:	<u>A0A087WPF7</u>
Cytogenetics:	5 G2

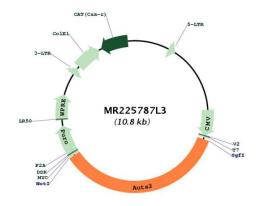
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GRIGENE Auts2 (NM_177047) Mouse Tagged Lenti ORF Clone – MR225787L3

Gene Summary:

Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. The PRC1-like complex that contains PCGF5, RNF2, CSNK2B, RYBP and AUTS2 has decreased histone H2A ubiquitination activity, due to the phosphorylation of RNF2 by CSNK2B. As a consequence, the complex mediates transcriptional activation (By similarity). In the cytoplasm, plays a role in axon and dendrite elongation and in neuronal migration during embryonic brain development. Promotes reorganization of the actin cytoskeleton, lamellipodia formation and neurite elongation via its interaction with RAC guanine nucleotide exchange factors, which then leads to the activation of RAC1 (PubMed:25533347).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225787L3

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