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Product datasheet for MG216250

Atp2a3 (NM_001163337) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Atp2a3
Synonyms:	Serca3; SERCA3b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216250 representing NM_001163337
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGGCGCACCTGCTCTCCGCTGCCGACGTGCTGCGTCGCTTCTCGGTGACAGCCGAGGGCGGCT
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ATCCCTGTGGGAGCTGGTGGTGGAGCAGTTTGAGGACCTCTTGGTGCGCATCCTGCTGCTGGCAGCTCTG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216250 representing NM_001163337
Red=Cloning site Green=Tags(s)

MEEAHLLSAADVLRRFSVTAEGGLSLEQVTDARERYGPNELPTEEGKSLWELVVEQFEDLLVRILLLAAL
VSFVLAWFEEGEETTTAFVEPLVIMLILVANAIVGVWQERNAESAIEALKEYEPEMGKVIRSDRKGVQRI
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GTNIASGKALGVAVATGLQTELGKIRSQMAAVEPERTPLQRKLDEFGRQLSHAISVICVAVWVINIGHFA
DPAHGGSWLRGAVYYFKIAVALAVAAIPEGLPAVITTCLALGTRRMARKNAIVRSLPSVETLGCTSVICS
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RKSMSVYCTPTRADPKVQGSKMFVKGAPESVIERCSSVRVGSRTAPLSTTSREHILAKIRDWGSGSDTLR
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TAVAICRRLGIFGDTEDVLGKAYTGREFDDLSPEQQRQACRTARCFARVEPAHKSRIVENLQSFNEITAM
TGDGVNDAPALKKAEIGIAMGSGTAVAKSAAEMVLSDDNFASIVAAVEEGRAIYNNMKQFIRYLISSNVG
EVVCIFLTAILGLPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMEKPPRNPREALISGWLFFRYLAI
GVYVGLATVAAATWWFLYDTEGPQVTFYQLRNFLKCSEDNPLFAGIDCKVFESRFPTTMALSVLVTIEMC
NALNSVSENQSLLRMPPWLNPWLLGAVVMSMALHFLILLVPPLPLIFQVTPLSGRQWGVVLQMSLPVILL
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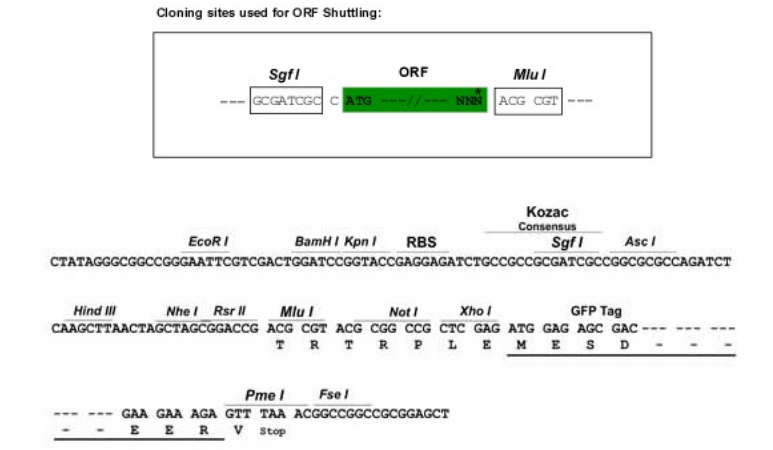
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

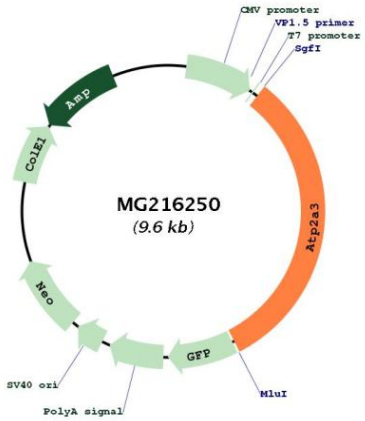


ACCN: NM_001163337

ORF Size: 3078 bp

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.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001163337.1, NP_001156809.1
RefSeq Size:	4606 bp
RefSeq ORF:	3081 bp
Locus ID:	53313
UniProt ID:	Q64518
Cytogenetics:	11 B4
Gene Summary:	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Transports calcium ions from the cytosol into the sarcoplasmic/endoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216250