

Product datasheet for **MG204630**

Slc25a31 (NM_178386) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a31 (NM_178386) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc25a31
Synonyms: 1700034J06Rik; Ant4; Sfec
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204630 representing NM_178386
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAACGAATCCTCCAAGAAGCAGTCTTCAAAGAAGGCGCTGTTTCGATCCGGTGTCTTTCTCGAAGG
ACCTGCTGGCCGGCGGGTTCGCGCCGCGGTGTCGAAGACAACTGTGGCGCCATCGAGCGTGTGAAGCT
GCTGCTGCAGGTGCAGGCGTCTCCAAGCAGATAAGCCCTGAGGCGCGCTACAAGGCATGCTGGACTGC
CTGGTGCATTCTCGTGAAGGATTTTTAAGTTATTGGCGTGCAATTTGGCAAATGTTATTCGAT
ACTTTCCAACACAAGCCTTAACTTCGCTTTAAGGACAAATACAAAGAACTTTTCATGTCTGGTGTAA
TAAAGAAAACAGTTCTGGAGATGGTTTCTAGCAAACCTGGCTTCTGGAGGGGCTGCTGGAGCAACATCC
TTGTGTGTAGTATACCCACTAGATTTTGCAGAACCCGATTAGGTGTTGATATTGAAAAAGTCCCTGAGC
AGCGGCAGTTCACGGGTTTGGGTGACTGCATTATGAAAATAGCCAAGTCAGATGGACTGATTGGTCTATA
CCAAGGTTTGGTGTCTCTGTTCAAGGTATCATTGTTTACCGAGCCTTACTTTGGAGCTTATGACACC
GTTAAGGGCTTATTGCCAAAGCCAAAGGAAACCCATTCTTGTCTCTTTTATCATTGCTCAAATCGTGA
CTACCTGTTCTGGAATACTCTCCTATCCCTTTGACACAGTTAGAAGACGTATGATGATGCAGAGTGGGGA
ATCTGATCGGCAATATAAAGGAACCATAGACTGCTTTCTGAAAATCTACCGTCATGAAGGAGTTCCTGCC
TTCTTCCGTGGTGCCTTCTCAACATCCTTCGTGGCACAGGGGTCTTTGGTCTTGGTGTATATGATA
AAATCAAAGAGTTCCTCAACATTGATGTTGGAGGTAGTTCATCAGGAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204630 representing NM_178386
Red=Cloning site Green=Tags(s)

MSNESSKKQSSKKALFDPVFSKDLLAGGVAAAVSKTTVAPIERVKLLLQVQASSKQISPEARYKGMDC
 LVRIPREQGFLSYWRGNLANVIRYFPTQALNFAFKDKYKELFMSGVNKEKQFWRWFLANLASGGAAGATS
 LCVVYPLDFARTRLGVDIGKGPEQRQFTGLGDCIMKIAKSDGLIGLYQGFVSVQGIIVYRASYFGAYDT
 VKGLLPKPKETPFLVSFIIAQIVTTCSGILSYPFDTVRRRMMMQSGESDRQYKGTIDCFLKIYRHEGVPA
 FFRGAFSNILRGTGGALVLVLYDKIKEFLNIDVGGSSSGD

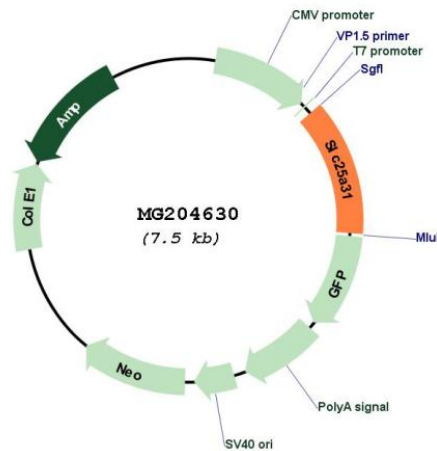
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178386

ORF Size: 960 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:	<ol style="list-style-type: none">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:	NM_178386.2 , NP_848473.1
RefSeq Size:	1577 bp
RefSeq ORF:	963 bp
Locus ID:	73333
UniProt ID:	Q3V132
Cytogenetics:	3 B
Gene Summary:	Catalyzes the exchange of cytoplasmic ADP with mitochondrial ATP across the mitochondrial inner membrane. May serve to mediate energy generating and energy consuming processes in the distal flagellum, possibly as a nucleotide shuttle between flagellar glycolysis, protein phosphorylation and mechanisms of motility.[UniProtKB/Swiss-Prot Function]