

Product datasheet for **RG205546**

SLC25A31 (NM_031291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC25A31
Synonyms:	AAC4; ANT 4; ANT4; SFEC35kDa
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205546 representing NM_031291
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCGTGAGCCTGCGAAAAAGAGGCAGAAAGCGGCTGTTTGACGCCTCATCCTTCGGGAAGGACC
TTCTGGCCGGCGGAGTCGCGGCAGCTGTGTCCAAGACAGCGGTGGCGCCCATCGAGCGGGTGAAGCTGCT
GCTGCAGGTGCAGGCGTCGTCGAAGCAGATCAGCCCCGAGGCGCGGTACAAAGGCATGGTGGACTGCCTG
GTGCGGATTCTCGCGAGCAGGGTTTCTTCAGTTTTTGGCGTGGCAATTTGGCAAATGTTATTCGGTATT
TTCCAACACAAGCTCTAACTTTGCTTTTAAGGACAAATACAAGCAGCTATTCATGTCTGGAGTTAATAA
AGAAAAACAGTTCTGGAGGTGGTTTTTGGCAAACCTGGCTTCTGGTGGAGCTGCTGGGCAACATCCTTA
TGTGTAGTATATCCTCTAGATTTTGGCCGAACCCGATTAGGTGTCGATATTGGAAAAGGTCCTGAGGAGC
GACAATTCAAGGGTTTAGGTGACTGTATTATGAAAATAGCAAATCAGATGGAATTGCTGGTTTATACCA
AGGGTTTGGTGTTCAGTACAGGGCATATTGTGTACCGAGCCTCTATTTTGGAGCTTATGACACAGTT
AAGGGTTTATTACCAAAGCCAAAGAAAACCTCATTCTTGTCTCCTTTTTCATTGCTCAAGTTGTGACTA
CATGCTCTGGAATACTTTCTTATCCCTTTGACACAGTTAGAAGACGTATGATGATGCAGAGTGGTGAAGC
TAAACGGCAATATAAAGGAACCTTAGACTGCTTTGTGAAGATATACCAACATGAAGGAATCAGTTCCTTT
TTTCGTGGCGCCTTCTCAATGTTCTTCGCGGTACAGGGGTGCTTTGGTGGTGGTATTATGATAAAA
TAAAGAATTCTTTCATATTGATATTGGTGGTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



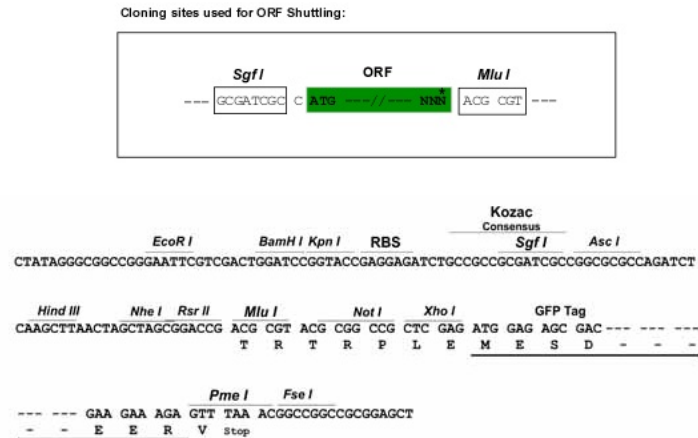
Protein Sequence: >RG205546 representing NM_031291
Red=Cloning site Green=Tags(s)

MHREPAKKKAEKRLFDASSFGKDLLAGGVAAVSKTAVAPIERVKLLQVQASSKQISPEARYKGMVDCL
VRIPREQGFFSFWRGNLANVIRYFPTQALNFAFKDKYQLFMSGVNKEQFWRWFLANLASGGAAGATSL
CVVYPLDFARTRLGVDIGKPEERQFKGLGDCIMKIAKSDGIAGLYQFGVSVQGIIVYRASVFGAYDTV
KGLLPKPKKTPFLVSFFIAQVVTTCGILSYFPDTRRRMMMQSGEAKRQYKGTLCFVKIYQHEGISSF
FRGAFSNVLRGTGGALVLVLYDKIKEFFHIDIGGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031291

ORF Size: 945 bp

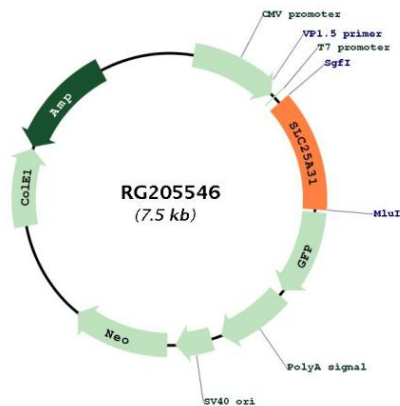
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_031291.4</u>
RefSeq Size:	1803 bp
RefSeq ORF:	948 bp
Locus ID:	83447
UniProt ID:	<u>Q9H0C2</u>
Cytogenetics:	4q28.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway, Huntington's disease, Parkinson's disease
Gene Summary:	The protein encoded by this gene is a member of the ADP/ATP carrier family of proteins that exchange cytosolic ADP for matrix ATP in the mitochondria. Cells over-expressing this gene have been shown to display an anti-apoptotic phenotype. This protein is also thought to play a role in spermatogenesis, where it is believed to associate with a part of the flagellar cytoskeleton and with glycolytic enzymes. Male mice with mutations in the mouse ortholog of this gene are sterile and spermatocytes display an early meiotic arrest phenotype. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG205546