

Product datasheet for **MG215814**

Slc22a16 (NM_027572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Slc22a16
Synonyms:	4921504E14Rik; CT2; FLIPT2; OCT6; OKBI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >MG215814 representing NM_027572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGTCCTGCAACGTGGAGCTGATTTTTGACCACATAGGACACTTCGGCAGGTTCCAGATAGTCCTGT
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 GAGGGGTGCTTCAAGCAGAGCTTCTTGAAGATGAGAGTGGGGTTTCAAGCAGAGCCCTCCTGAAAAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

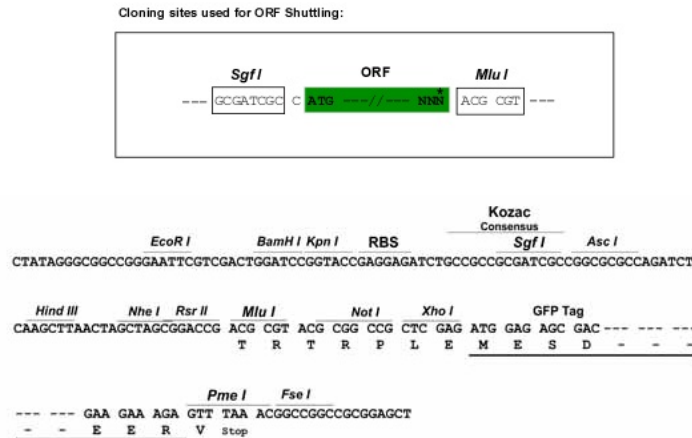
Protein Sequence: >MG215814 representing NM_027572
 Red=Cloning site Green=Tags(s)

MESCVELIFDHIGHFGRFQIVLYLICAYQSLSCGIHYLSSVFLSIPEHACKPPGMVRKAVFHNVSAR
 LEDILALRSPHKDHIMVELQDGEIWELTRCSRTWRENTSHLGYEYSGYKHDSPCFDGYVYDQSKWRNSA
 VRNFNLCVCDQKWYARMIQPLIIFGVMLGSITFSYLSDFRGRMALWCTSIGVFFFGIASLFIIDYLSFMI
 TRFFLVMASSGYFVVVYVYVMEIIGKKARTWASIHNLNTFFAIGAMLVALASYLLKTWWLYQIILCIVTTP
 FILLCCWMLPETPFWLLSEGRYKEAQTVDTMVWVKSSCDLVLLSLDVTRSHNKSPHSIRKHLADLF
 HNLDVAKMTLIVWLDWFTANLGYMFGKEVIRRKENEPLYLLLVGAMEIPAYICLCIWLKRVRRKTMML
 FLLVSSLTCLMLHVMPDYKTAKRMAVLLVKSIVSSVFAFIYLYTAELYPPTVRCLAVGSSNMVSHVSSI
 FIPFTSHFSKVIWIFLPQILFGILAILSGLLSLKLPEQDTPMKSTWETTEQQVPEPKDSLGEPPDSFER
 WDSSRALSFARWGLSRASPDAEKWSGRVPPDAGKWGAGIAPPVTERGASGRASLEDESGGSGRAPPEK
 NTEMENEIENMKVSNLGGF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027572

ORF Size: 1947 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_027572.1](#), [NP_081848.1](#)

RefSeq Size: 2377 bp

RefSeq ORF: 1950 bp

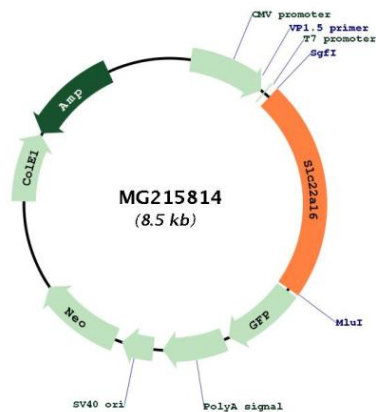
Locus ID: 70840

UniProt ID: [Q497L8](#)

Cytogenetics: 10 B1

Gene Summary: High affinity carnitine transporter; the uptake is partially sodium-ion dependent. Thought to mediate the L-carnitine secretion mechanism from testis epididymal epithelium into the lumen which is involved in the maturation of spermatozoa. Also transports organic cations such as tetraethylammonium (TEA) and doxorubicin. The uptake of TEA is inhibited by various organic cations. The uptake of doxorubicin is sodium-independent (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215814