

Product datasheet for **RG211933**

SLC7A3 (NM_032803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC7A3
Synonyms:	ATRC3; CAT-3; CAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG211933 representing NM_032803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGTGGCAAGCATTTTCGAGATTTGGTCAAAAGCTGGTACGCAGACGTACACTGGAGTCAGGCATGG
 CTGAGACTCGCCTTGCCAGATGCCTAAGCACCTGGATTTAGTGGCCCTGGGTGTGGGCAGCACATTGGG
 TGCAGGCGTGTATGCTCCTAGCTGGCGAGGTGGCCAAAGATAAAGCAGGGCCATCCATTGTGATCTGCTTT
 TTGGTGGCTGCCCTGTCTTCTGTGTTGGCTGGGCTGTGCTATGCGGAGTTTGGTGCCCGGTTCCCGGTT
 CTGGTTTCGCATATCTCTACAGCTATGTCACTGTGGGTGAACCTCTGGCCTTCACTACTGGCTGGAACCT
 CATCCTCTCCTATGTCTTGGTACAGCCAGTGTGGCCCGGCTGGAGCTCTGCTTTTGACAACTGATT
 GGGAACCACATCTCTAAGACTCTGCAGGGGTCCATTGCACTGCACGTGCCCCATGCTCTTGAGAATATC
 CAGATTTCTTTGCTTTGGGCTCGTGTGCTGCTCACTGGATTGTTGGCTCTCGGGGCTAGTGAGTCGGC
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 AAGGGGGACGTGCACAACCTGGAAGCTCACAGAAGAGGACTACGAATTGGCCATGGCTGAACTCAATGACA
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 CTTTGGCTGGTGTGGCCAGTGGTCAGTTCCATTGCTTTCTGGAGACCTGGTGTGGACTGCAGTGGTTG
 TGCTGCTCCTGCTGCTCATTATTGGGATCATTGTGGTCACTGGAGACAGCCACAGAGCTCCACTCCCCT
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 CAGATGACAGCTGGTACCTGGGCCGATTTGGGGTCTGGATGCTGATTGGCTTTGCTATCTACTTCGGCT
 ATGGGATCCAGCACAGCTGGAAGAGATTAAAGAGTAACCAACCCTCACGCAAGTCTAGAGCCAAAACGT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

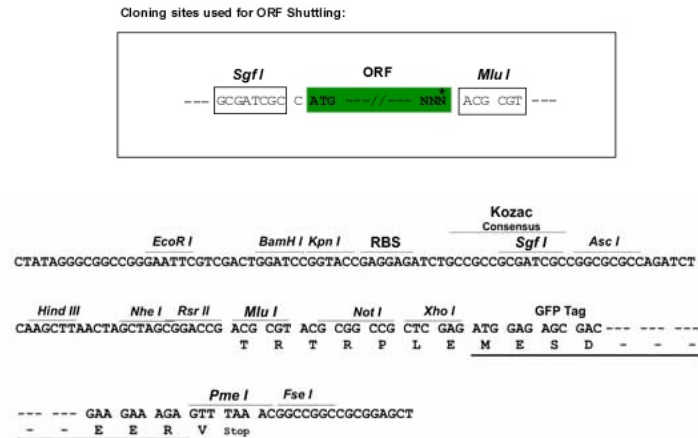
Protein Sequence: >RG211933 representing NM_032803
 Red=Cloning site Green=Tags(s)

MPWQAFRRFGQKLVRRTLESMAETRLARCLSTLDLVALGVGSTLGAGVYVLAGEVAKDKAGPSIVICF
 LVAALSSVLAGLCYAEFGARVPRSGSAYLYSYVTVGELWAFITGWNILSYVIGTASVARAWSSAFDNLI
 GNHISKTLQGSIALHVPVLAEPDFFALGLVLLLTGLLALGASESALVTRVFTGVNLLVLGFVMISGFV
 KGDVHNWKLTEEDYELAMAEINDTYSGLPLSGGFVPFGFEGILRGAATCFYAFVGFDCIATTGEEAQNP
 QRSIPMGIVISLSVCFLAYFAVSSALTMMPYYQLQPESPLPEAFYIGWAPARYVAVGSLCALSTSL
 GSMFMPRVIYAMAEDGLLFRVLARIHTGTRPIIATVVSIGIIAFAFLFKLTDLVDMSIGTLLAYSL
 VSICVLILRYQPDQETKTGEEVELQEEAITTESEKLTWGLFFPLNSIPTPLSGQIVYVCSLLAVLLTA
 LCLVLAQWSVPLSGDLVWTAVVVLLLLLIIGIIVVIWRQPSSTPLHFKVPALPLPLMSIFVNIYLM
 QMTAGTWARFVWMLIGFAIYFGYGIQHSLEEIKSNQPSRKSRAKTVDLDPGTLYVHSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032803

ORF Size: 1857 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:

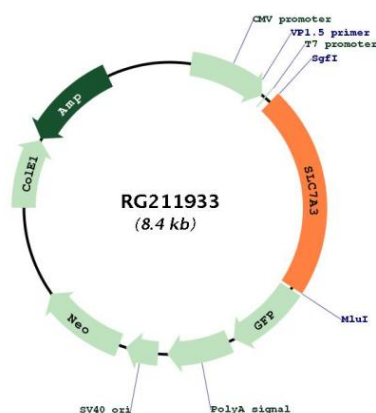
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_032803.3](#), [NP_116192.3](#)

RefSeq Size:	2280 bp
RefSeq ORF:	1860 bp
Locus ID:	84889
UniProt ID:	Q8WY07
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the solute carrier family 7. The encoded protein is a sodium-independent cationic amino acid transporter. Alternate splicing results in multiple transcripts that encoded the same protein.[provided by RefSeq, May 2010]

Product images:



Circular map for RG211933