

Product datasheet for **RG207420**

SLC7A3 (NM_001048164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A3 (NM_001048164) Human Tagged ORF Clone
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)



[View online »](#)

ORF Nucleotide Sequence:

>RG207420 representing NM_001048164
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTGGCAAGCATTTCGCAGATTTGGTCAAAGCTGGTACGCAGACGTACACTGGAGTCAGGCATGG
 CTGAGACTCGCCTTGCCAGATGCCAAGCACCCCTGGATTTAGTGGCCCTGGGTGTGGGCAGCACATTGGG
 TGCAGGCGTGTATGTCCTAGCTGGCGAGGTGGCCAAAGATAAAGCAGGGCCATCCATTGTGATCTGCTTT
 TTGGTGGCTGCCCTGTCTTCTGTGTTGGCTGGGCTGTGCTATGCGGAGTTTGGTGGCCGGTTCCCGGTT
 CTGGTTCGGCATACTCTACAGCTATGTCACTGTGGTGAACCTCTGGCCCTTACCAGTGGCTGGAACCT
 CATCCTCTCTATGTCATTGGTACAGCCAGTGTGGCCCGGCCTGGAGCTCTGCTTTTGACAACCTGATT
 GGGAACCATCTCTAAGACTCTGCAGGGTCCATTGCACTGCACGTGCCCATGTCCTTGACAATATC
 CAGATTTCTTTGCTTTGGCCCTGTGTTGCTGCTCACTGGATTGTTGGCTCTCGGGCTAGTGAGTCGGC
 CCTGGTTACCAGAGTGTTCACAGGCGTGAACCTTTTGGTCTTGGGTTGTCATGATCTCTGGCTTCGTT
 AAGGGGGACGTGCACAACCTGGAAGCTCACAGAAGAGGACTACGAATTGGCCATGGCTGAACCTCAATGACA
 CCTATAGCTTGGGTCTCTGGGCTCTGGAGGATTTGTGCCTTTCGGCTTCGAGGGAAATTCCTGGGAGC
 AGCGACCTGTTTCTATGCATTTGTTGGTTTCGACTGTATTGCTACCAGTGGAGAAGAAGCCAGAATCCC
 CAGCGTCCATCCCGATGGGCATTGTGATCTCACTGTCTGTCTGCTTTTGGCGTATTTTGTGTCTCTT
 CTGCACTACCCTGATGATGCCTTACTACCAGCTTCAGCCTGAGAGCCCTTTGCCTGAGGCATTTCTCTA
 CATTGGATGGGCTCCTGCCCGCTATGTTGGCTGTTGGCTCCCTCTGTGCTCTTCTACCAGCCTCCTG
 GGCTCCATGTTCCCATGCCTCGGGTACTACGCGATGGCAGAGGATGGCCCTGTTCCGTGTACTTG
 CTCGGATCCACACCGGCACACGCCAACCAATCATAGCCACCGTGGTCTCTGGCATTATTGACAGCATTCAT
 GGCAATTCCTCTTCAAACCTCACTGATCTTGTGGACCTCATGTCAATTGGGACCCCTGCTTACTCCCTG
 GTGTCGATTTGTGTTCTCATCCTCAGGTATCAACCTGATCAGGAGACAAAGACTGGGGAAGAAGTGAGT
 TGCAGGAGGAGCAATAACTACTGAATCAGAGAAGTTGACCCTATGGGACTATTTTTCCCACTCAACTC
 CATCCCCACTCCACTCTCGCCAAATTGTCTATGTTTGTCTCATTGCTTGTCTGCTGCTGACTGCT
 CTTTGCCTGGTGTGGCCAGTGGTCAGTTCATTGCTTTCTGGAGACCTGGTGTGGACTGCAGTGGTTG
 TGCTGCTCCTGCTGCTCATTATTGGGATCATTGGTTCATCTGGAGACAGCCACAGACTCCACTCCCT
 TCACTTTAAGGTGCTGCTTTCCTCTCCTCCCACTAATGAGCATCTTTGTGAATATTTACCTTATGATG
 CAGATGACAGCTGGTACCTGGGCCGATTTGGGCTCTGGATGCTGATTGGCTTTGCTATCTACTTCGGCT
 ATGGGATCCAGCACAGCCTGGAAGAGATTAAGAGTAACCAACCCCTCACGCAAGTCTAGAGCCAAAACCTG
 AGACCTTGATCCCGCACTCTCTATGTCCACTCAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207420 representing NM_001048164
 Red=Cloning site Green=Tags(s)

MPWQAFRRFGQKLVRRRTLESGMAETRLARCLSTLDLVALGVGSTLGAAGVYVLAGVAKDKAGPSIVICF
 LVAALSSVLAGLCYAEFGARVPRSGSAYLYSYVTVGELWAFITGWNLILSYVIGTASVARAWSSAFDNL
 GNHISKTLQGSIALHVPVLAEYPDFFALGLVLLLGLLALGASESALVTRVFTGVNLLVLFVMSGFV
 KGDVHNWKLTEEDYELAMAELNDTYSLGPLSGGFVPPGFEGILRGAATCFYAFVGFDCIATTGEEAQN
 QRSIPMGIVISLVCFLAYFAVSSALTLMPYYQLQPESPLPEAFLYIGWAPARYVVAVGSLCALSTSL
 GSMFPMRVIYAMAEDGLLFRVLARIHTGTRTPIIATVVSIGIIAFAFLFKLTDLVDLMSIGTLLAYSL
 VSICVLILRYQPDQETKGELEVELQEEAITTESEKLTWGLFFPLNSIPTPLSGQIYVVCSSLLAVLLTA
 LCLVLAQWSVPLLSGDLVWTAVVLLLLIIGIIVVIWRQPSSPLHFKVPALPLPLMSIFVNIYLM
 QMTAGTWARFVWMLIGFAIYFGYGIQHSLEEIKSNQPSRKSRAKTVLDLDPGTYVHVS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001048164.1 , NP_001041629.1
RefSeq Size:	2285 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]