

Product datasheet for **RG230207**

Noradrenaline transporter (SLC6A2) (NM_001172502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noradrenaline transporter (SLC6A2) (NM_001172502) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Noradrenaline transporter
Synonyms:	NAT1; NET; NET1; SLC6A5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230207 representing NM_001172502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGTGCAGTGGTGGAGCCACACCCAAGGAGAGGTGGCTGTGGGGCTGGGCCTGGGAGACTCCTACC
 TTACCCCTGTCCCTGCCAGGGCTTGGCTATGCTGTCATCCTGATCGCCCTGTACGTTGGCTTCTACTA
 CAACGTATCATCGCTGGTCACTCTACTACCTCTTCTCCTCCTTACCCTCAACCTGCCCTGGACCGAC
 TGTGGCCACACCTGGAACAGCCCAACTGTACCGACCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACC
 ACACCAAGTACTCCAAGTACAAGTTCACGCCGGCAGCGAGTTTTATGAGCGTGGTGTCTGCACCTTCA
 CGAGAGCAGCGGATTTCATGACATCGGCCTGCCCAAGTGGCAGCTCTGTCTGTCTGATGGTGTCTGTC
 ATCGTCTGTATTTAGCCTCTGGAAAGGGTGAAGACATCAGGAAAGGTGGTGTGGATCACAGCCACGC
 TGCCTTACTTCGTGCTGTTCTGTCTCCTGGTCCATGGCGTCACGCTGCCCGAGCCTCCAATGGCATCAA
 TGCTACCTGCACATCGACTTCTACCGCTTGAAGAGGCCACGGTATGGATTGATGCCGCAACTCAGATA
 TTTTTTCTTGGGGCTGGATTTGGAGTATTGATTGCATTTGCCAGTTACAACAATTTGACAACAAC
 GTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCTCTGGGTTCCGCATCTT
 CTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGCTGGC
 CTAGTGTTCATCCTGTATCCAGAGGCCATTTCTACCCTGTCTGGATCTACATTCTGGGCTGTTGTGTTTT
 TCGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTATCACGGCCCTGGC
 AGATGACTTCCAGGTCTGAAGCGACACCGAACTCTCACATTTGGCGTCACCTTCAGCACTTTCCTT
 CTCGCCCTGTTCTGCATAACCAAGGGTGAATTTACGCTTACCCTCCTGGACACCTTTGCTGCGGGCA
 CCTCCATCCTTTTTGCTGTCTCCTCATGGAAGCCATCGGAGTTTCTGGTTTTATGGAGTGGACAGGTTCA
 CAACGACATCCAGCAGATGATGGGGTTCAGGCCGGTCTATACTGGAGACTGTGCTGGAAGTTCGTCACT
 CCTGCCTTCTCCTGTTCTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT
 TCTTCCCGCCCTGGGCCAACTGGGTGGGTGGGCATCGCCCTGTCTCCATGGTCTGGTGGCCATCTA
 CGTCATCTATAAGTTCCTCAGCACGCAGGGCTCTCTTGGGAGAGACTGGCCTATGGCATCACGCCAGAG
 AACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGTTCAGTTGCAACACTGGCTGGCCATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230207 representing NM_001172502
 Red=Cloning site Green=Tags(s)

MGVQWSHTQGEVAVGLGLGDSYLTPCPCPGVGYAVILIALYVGFYFNVI IAWSLYYL FSSFTLNL PWTDCGHTWNSPNC TDPKLLNGSVLGNHTKYSKYKFTPAAEFYERGVHLHHESSGIHDI GLPQWQLLLCLM VVVIVLYFSLWKGVK TSGKVVWITATLPYFVLFVLLVHGVTLP GASNGINAYLHIDFYRLKEATVWIDAATQIFFSLGAGFGVLI AFASYNKFDNNCYRDALLTSSINCITSFVSGFAIF SILGYMAHEHKVNIEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSSMGM EAVITGLADDFQVLRHRKLF TFGVTFSTFLALFCITKGGIYV LLLDTFAAGTSILFAVLM EAI GVSWFYGVDRFSNDIQMMGFRPGLYWR LCKWKFVSPAFLLFVVVSI INFKPLTYDDYIFPPWANVWVGWIALSSMVLVPIYVIYKFLSTQGSLWERLAYGITPENHHLVAQRDIRQFQLQHWLAI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001172502

ORF Size: 1536 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.

RefSeq: [NM_001172502.1](#), [NP_001165973.1](#)

RefSeq Size: 3157 bp

RefSeq ORF: 1539 bp

Locus ID: 6530

UniProt ID: [P23975](#)

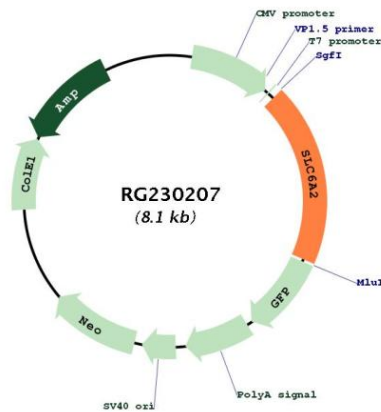
Cytogenetics: 16q12.2

Protein Families: Druggable Genome, Transmembrane

MW: 57.4 kDa

Gene Summary: This gene encodes a member of the sodium:neurotransmitter symporter family. This member is a multi-pass membrane protein, which is responsible for reuptake of norepinephrine into presynaptic nerve terminals and is a regulator of norepinephrine homeostasis. Mutations in this gene cause orthostatic intolerance, a syndrome characterized by lightheadedness, fatigue, altered mentation and syncope. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RG230207