

Product datasheet for **SC302961**

Dopamine Transporter (SLC6A3) (NM_001044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Transporter (SLC6A3) (NM_001044) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine Transporter
Synonyms:	DAT; DAT1; PKDYS; PKDYS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001044 edited
CAGGAGGGGAGGCTTCGCGGAACGCTCTCGGCGCCAGGACTCGCGTGCAAAGCCCAGGCC
CGGGCGGCCAGACCAAGAGGGAAGAAGCACAGAATTCCTCAACTCCCAGTGTGCCATGA
GTAAGAGCAAATGCTCCGTGGGACTCATGTCTCCGTGGTGGCCCCGGCTAAGGAGCCCA
ATGCCGTGGGCCCAAGGAGGTGGAGCTCATCCTGTCAAGGAGCAGAACGGAGTGCAGC
TCACCAGCTCCACCCTACCAACCCGCGCAGAGCCCCGTGGAGGCCAGGATCGGGAGA
CCTGGGGCAAGAAGATCGACTTTCTCCTGTCCGTATTGGCTTTGCTGTGGACCTGGCCA
ACGTCTGGCGGTTCCCTACCTGTGCTACAAAAATGGTGGCGGTGCCTTCCTGGTCCCCT
ACCTGCTCTTCATGGTATTGCTGGGATGCCACTTTTCTACATGGAGCTGGCCCTCGGCC
AGTTCAACAGGGAAGGGGCCGCTGGTGTCTGGAAGATCTGCCCCATACTGAAAGGTGTGG
GCTTACGGTTCATCTCATCTCACTGTATGTGGCTTCTTCTACAACGTATCATCGCT
GGGCGTGCATATCTTCTCCTCCTTACCACGGAGCTCCCCTGGATCCACTGCAACA
ACTCCTGGAACAGCCCCAACTGCTCGGATGCCATCCTGGTACTCCAGTGGAGACAGCT
CGGGCCTCAACGACACTTTTGGGACCACACCTGCTGCCGAGTACTTTGAACGTGGCGTGC
TGCACCTCCACCAGGCCATGGCATCGACGACCTGGGGCTCCGCGGTGGCAGCTCACAG
CCTGCCTGGTGTGGTATCGTGTCTACTTCAGCCTCTGGAAGGGCGTGAAGACCT
CAGGGAAGGTGGTATGGATCACAGCCACCATGCCATACGTGGTCCCTACTGCCCTGCTCC
TGCGTGGGGTACCCCTCCCTGGAGCCATAGACGGCATCAGAGCATACCTGAGCGTTGACT
TCTACCGGCTCTGCGAGGCGTCTGTTGGATTGACGCGGCCACCCAGGTGTGCTTCTCC
TGGGCGTGGGGTTCGGGGTGTGATCGCCTTCTCCAGTACAACAAGTTCACCAACAAC
GCTACAGGGACCGGATTGTCACCACCTCCATCACTCCCTGACGAGCTTCTCCTCCGGCT
TCGTCTCTTCTCCTTCTGGGTACATGGCACAGAAGCACAGTGTGCCATCGGGGACG
TGGCCAAGGACGGGCCAGGGCTGATCTTCATCATCTACCCGGAAGCCATCGCCACGCTCC
CTGTCTCAGCCTGGGCGTGGTCTTCTTCATCATGCTCACCCCTGGGTATCGACA
GCGCCATGGGTGGTATGGAGTCACTGATCACCGGCTCATCGATGAGTTCAGCTGCTGC
ACAGACACCGTGAAGCTTTCACGCTTTCATCGTCTGGCGACCTTCTCCTGTCCCTGT
TCTGCGTCACCAACGGTGGCATCTACGTCTTACGCTCCTGGACATTTTGCAGCCGGCA
CGTCCATCCTCTTGGAGTGTCTATCGAAGCCATCGGAGTGGCTGGTTCATGGTGTG
GGCAGTTCAGCGACGACATCCAGCAGATGACCGGGCAGCGGCCAGCCTGTACTGGCGGC
TGTGCTGGAAGCTGGTCAAGCCCTGCTTCTCCTGTTCTGTTGCTGCTGCTGCTGCTG
CCTTCAGACCCCCCACTACGGAGCCTACATCTTCCCGACTGGGCCAACGCGCTGGGCT
GGGTCATCGCCACATCCTCCATGGCCATGGTGGCCATCTATGCGGCTACAAGTTCTGCA
GCCTGCCTGGGTCTTTCGAGAGAACTGGCCTACGCCATTGCACCCGAGAAGGACCGTG
AGCTGGTGGACAGAGGGGAGGTGCGCCAGTTCACGCTCCGCCACTGGCTCAAGGTGTAGA
GGGAGCAGAGACGAAGACCCAGGAAGTCACTGCAATGGGAGAGACACGAACAAACCA
AGGAAATCTAAGTTTCGAGAGAAAGGAGGGCAACTTCTACTTTCACCTTACTGAAAA
CACAAACAACAAGCAGAAGACTCCTCTTCTGACTGTTTACACCTTTCGTCGCCGGGA
GCGCACCTCGCCGTGCTTGTGTTGCTGTAATAACGACGTAGATCTGTGCAGCGAGGTCC
ACCCGTTGTTGTCCTGTCAGGGCAGAAAAACGTCTAATTCTATGCTGTCTGTGTGAGGC
TCCCTCCCTCCCTGCTCCCTGCTCCCGGCTCTGAGGCTGCCCCAGGGGCACTGTGTTCTC
AGGCGGGGATCACGATCCTTGTAGACGCACCTGCTGAGAATCCCCGTGCTCACAGTAGCT
TCCTAGACCATTTACTTTGCCATATTAAGCAAGTGTCTGCTGTTTGTAGCTGTG
CAGAAGGTGAAATGGAGGAAACCACAAATTCATGCAAAGTCTTTCCCGATGCGTGGCTC
CCAGCAGAGGCCGTAATGAGCGTTCAGTTGACACATTGCACACAGTCTGTTACAG
GCATTGGAGGATGGGGTCTGGTATGTCTCACCAGGAAATCTGTTTATGTTCTTGAC
CAGAGAGAAATAAACTCCTTGAACCAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001044 unedited</p> <pre> AGGTCAGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCAGGAGGGG AGGCTTCGCGGAACGCTCTCGGCCCAGGACTCGCGTGCAAAGCCAGGCCCGGGCGGCC AGACCAAGAGGGAAGAAGCACAGAATTCCTCAACTCCCAGTGTGCCCATGAGTAAGAGCA AATGCTCCGTGGGACTCATGTCTCCGTGGTGGCCCCGGCTAAGGAGCCCAATGCCGTGG GCCCGAAGGAGGTGGAGCTCATCTTGTCAAGGAGCAGAACGGAGTGCAGCTCACCAGCT CCACCCTACCAACCCGCGCAGAGCCCCGTGGAGGCCAGGATCGGGAGACCTGGGGCA AGAAGATCGACTTCTCCTGTCCGTATTGGCTTGTGTGGACCTGGCCAACGTCTGGC GGTCCCCCTACCTGTGCTACAAAATGGTGGCGGTGCCTTCTGTGCCCTACCTGCTCT TCATGGTCATTGTGGAATGCCACTTTTCTACATGGAGCTGGGCCAGCGCGGGTGAACA GGGGAGAGGGCCACTAGAATGGCGAGAATTAGGGGAGGAAGAAAAAGGGAGAAGTAGGG AGTGAGGGAGAGGGGAGAGGGACAGAGAGAGGAGGAATGAAGGAAGAGAAAGAGGACGAG TGATGTAGAGGAGAGGGGTGAAGAGGGAAGGAGGCGAGGGGGGGGGAGGGTGAAGGAAG AGGAAAGAGGGAATTAAGGAGAATGAAAAATGAAGGACCGATGAGGAAGAGAGAAGA ACGAGGAGCAGAAAGAGACACAATGAAGAGNAGGAGGATAGAAAGGGGAAGGGGTGTGGG TGGGATAGGAGTTGAAGTGGTTAGCGCACCGAGGGGAGACAGAGTGGACAAGGAGAAAAA CGAGTACAAAAAG </pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_001044 unedited</p> <pre> GGGTTTATCCTGNAGANCTTCTCCTCCGCTTCGTCTTCTCCTCCTGGGGTACATGG CACAGAAGCACAGTGTGCCCATCGGGGACGTGGCCAAGGACGGGCCAGGGCTGATCTTCA TCATCTACCCGGAAGCCATCGCCACGCTCCCTCTGTCTCAGCCTGGGCCGTGGTCTTCT TCATCATGCTGCTCACCTGGGTATCGACAGCGCCATGGGTGGTATGGAGTCAGTGATCA CCGGGCTCATCGATGAGTTCAGCTGCTGCACAGACACCGTGAGCTTTCACGCTTTCA TCGTCCTGGCGACCTTCTCCTGTCCCTGTTCTGCGTCACCAACGGTGGCATCTACGTCT TCACGCTCCTGGACATTTTGCAGCCGGCACGTCCATCCTCTTTGGAGTGCTCATCGAAG CCATCGGAGTGGCCTGGTCTATGGTGTGGGCAGTTCAGCGACGACATCCAGCAGATGA CCGGGCAGCGGCCAGCCTGTACTGGCGGCTGTGCTGGAAGCTGGTCAGCCCCTGCTTTC TCCTGTTCTGTGGTCTGTGGTCAAGTTCAGACCTTCAGACCCCCCACTACGGAGCCTACA TCTTCCCAGACTGGCCAACGCGCTGGGCTGGGTCATCGCCACATCCTCCATGGCCATGG TGCCCATCTATGCGGCCTACAAGTCTGCAGCCTGCCTGGGTCTTTTCGAGAGAAACTG GCCTACGCCATTGCACCCGAGAAGGACCGTGAGCTGGTGGACAGAGGGGAGGTGCGCCAG TTCACGCTCCGCCACTGGCTCAGGTGTAGAGGGAGCAAANACAAAAACCCCAAGAGTCT CCTGCAATGGGAGAGAACACGACAAACCAAGGAAATCTAAGTTTTCGAGAAGAAGG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001044
Insert Size:	2700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001044.2 , NP_001035.1
RefSeq Size:	3945 bp
RefSeq ORF:	1863 bp
Locus ID:	6531
UniProt ID:	Q01959
Cytogenetics:	5p15.33
Domains:	SNF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Parkinson's disease
Gene Summary:	<p>This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.[provided by RefSeq, Nov 2009]</p>