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Product datasheet for SC126769

SLC6A1 (NM_003042) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A1 (NM_003042) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A1
Synonyms:	GABATHG; GABATR; GAT1; MAE
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC126769 sequence for NM_003042 edited (data generated by NextGen Sequencing)

ATGGCGACCAACGGCAGCAAGGTGGCCGACGGGCAGATCTCCACCGAGGTCAGCGAGGCC
CCTGTGGCCAATGACAAGCCCAAAACCTTGGTGGTCAAGGTGCAGAAGAAGGCGGCAGAC
CTCCCCGACCGGGACACGTGGAAGGGCCGCTTCGACTTCCTCATGTCCTGTGTGGGCTAT
GCCATCGGCCTGGGCAACGTCTGGAGGTTCCCCTATCTCTGCGGGAAAAATGGTGGGGGA
GCCTTCCTGATCCCCTATTTCCTGACACTCATCTTTGCGGGGGTCCCACTCTTCCTGCTG
GAGTGCTCCCTGGGCCAGTACACCTCCATCGGGGGGCTAGGGGTATGGAAGCTGGCTCCT
ATGTTCAAGGGCGTGGGCCTTGCGGCTGCTGTGCTATCATTCTGGCTGAACATCTACTAC
ATCGTCATCATCTCCTGGGCCATTTACTACCTGTACAACTCCTTCACCACGACACTGCCG
TGGAAACAGTGCGACAACCCCTGGAACACAGACCGCTGCTTCTCCAACTACAGCATGGTC
AACACTACCAACATGACCAGCGCTGTGGTGGAGTTCTGGGAGCGCAACATGCATCAGATG
ACGGACGGGCTGGATAAGCCAGGTCAGATCCGCTGGCCACTGGCCATCACGCTGGCCATC
GCCTGGATCCTTGTGTATTTCTGTATCTGGAAGGGTGTTGGCTGGACTGGAAAGGTGGTC
TACTTTTCAGCCACATACCCCTACATCATGCTGATCATCCTGTTCTTCCGTGGAGTGACG
CTGCCCGGGGCCAAGGAGGGCATCCTCTTCTACATCACACCCAACTTCCGCAAGCTGTCT
GACTCCGAGGTGTGGCTGGATGCGGCAACCCAGATCTTCTTCTCATACGGGCTGGGCCTG
GGGTCCCTGATCGCTCTCGGGAGCTACAACTCTTTCCACAACAATGTCTACAGGGACTCC
ATCATCGTCTGCTGCATCAATTCGTGCACCAGCATGTTCGCAGGATTCGTCATCTTCTCC
ATCGTGGGCTTCATGGCCCATGTCACCAAGAGGTCCATTGCTGATGTGGCGGCCTCAGGC
CCCGGGCTGGCGTTCCTGGCATACCCAGAGGCGGTGACCCAGCTGCCTATCTCCCCACTC
TGGGCCATCCTCTTCTTCTCCATGCTGTTGATGCTGGGCATTGACAGCCAGTTCTGCACT
GTGGAGGGCTTCATCACAGCCCTGGTGGATGAGTACCCCAGGCTCCTCCGCAACCGCAGA
GAGCTCTTCATTGCTGCTGTCTGCATCATCTCCTACCTGATCGGTCTCTCTAACATCACT
CAGGGGGGTATTTATGTCTTCAAACTCTTTGACTACTACTCTGCCAGTGGCATGAGCCTG
CTGTTCCTCGTGTTCTTTGAATGTGTCTCTATTTCCTGGTTTTACGGTGTCAACCGATTC
TATGACAATATCCAAGAGATGGTTGGATCCAGGCCCTGCATCTGGTGGAAACTCTGCTGG
TCTTTCTTCACACCAATCATTGTGGCGGGCGTGTTCATTTTCAGTGCTGTGCAGATGACG
CCACTCACCATGGGAAACTATGTTTTCCCCAAGTGGGGCCAGGGTGTGGGCTGGCTGATG
GCTCTGTCTTCCATGGTCCTCATCCCCGGGTACATGGCCTACATGTTCCTCACCTTAAAG
GGCTCCCTGAAGCAGCGCATCCAAGTCATGGTCCAGCCCAGCGAAGACATCGTTCGCCCA
GAGAATGGTCCTGAGCAGCCCCAGGCGGGCAGCTCCACCAGCAAGGAGGCCTACATCTAG

Clone variation with respect to NM_003042.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003042 unedited
GCGAATTCGGCACGAGGCCCGCCCTCCCCCTCCATCCCTCCGGTCTCGCTCCCCCCTCCT
CTCCCTTCCCCGCGTCCCTCCGCCCGCCCTCGGAAGACCGAGACAGCGGAGAGGTTGCGG
GTGAGCTGCGCTGAGCCCAGGAGCCGAGGAGTCGGGAGCGCAGCGCAGCCCGAGCCCGAG
CCCGAGCGGCCCCGCGTCCCGAGCGCATCGGAGCGGCCGAGCCGCCCGGAGCAGCGCCTG
TCCCGGGCAGCGCAGCCCCGGCCGCAGGATCTCACCCAAGGTGGCAGAAGGAGGCCTTCT
GGAGCTGACCCACCCCCGACGACCATCAGGGTGCCCTTGAGCCGCAAAACTGCTGTCCAC
GTGGACCGGGGGTGACATCGCACGTCCATCTGCCAGGACCCCTGCGTCCAAATTCCGAGA
CATGGCGACCAACGGCAGCAAGGTGGCCGACGGGCAGATCTCCACCGAGGTCAGCGAGGC
CCCTGTGGCCAATGACAAGCCCAAAACCTTGGTGGTCAAGGTGCAGAAGAAGGCGGCAGA
CCTCCCCGACCGGGACACGTGGAAGGGCCGCTTCGACTTCCTCATGTCCTGTGTGGGCTA
TGCCATCGGCCTGGGCAACGTCTGGAGGGTTCCCTATCTCTGCGGGAAAAATGGTGGGGG
AGCCTTCCTGATCCCCTATTTCCTGACACTCATCTTTGCGGGGGTCCCACTCTTCCTGCT
GGAGTGCTCCCTGGGCCAGTACACCTCCATCGGNGG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_003042 unedited
CCCCGCGCCNCNNCCCCCCCCCTCCCCNCNNNNNGNGTTGATNGCNAACCTTTTATATTTT
TCCNCTNNAAATTCTTANAAACTTACATAACGCCCGTGCTCTAGTTATGACACCATTTAT
AGACATTTAAAATGCATCTTCATTTATAAATATTTTACATTTGGTCCATAGAACAGATAA
TTTTACTAAATAATACTGTATTTTTTAAAACAGGCTCTGTATATACTTTGAATATGTATA
TATTACATATATTTTTTATATAGAGATAGATTTACTTGGTGTTCTGAGAATAAATCCTTA
TTGCAAAAAAGCATATATGATAATACAATATCTTTTTCCCCCCGGGCAAATACTAAAAAA
AAGTTACACATATTCACAGTTCTCACAGTAATTGTACAACACTTAATATTGTGCTCTATA
AGGTAGGTTTGGATGGAAATCAGTTAGGGGATTTCTTGCCAAACATCTCACTTAGAATTG
CTTACAAACATTAAATACACTGCATTTGTCTTAGAGAGACTTGGTCTCAGTTTCACATTG
AAGAACAAAGAGAAAGCTGGAAGTCTTCCTGCCCTTAGTCTAAAGGAATTCACACACAGA
TGGGGAAGTGGGACCATGAGACACAGTGATGGGTTCCTGTCATTCTAAACCTTATCATTT
AACAATACGTATGCATTTTGATCATGGATTCACCAGCTGGCACTGNNGATGCCTTGGCAA
TGAGACTATTNTACAGATGACCTCANGAAAAGGCTTCAGATTTCCTACACAATATCAAAT
GAGACCTTACGTGCCACACGTGAGGATGAATGTGCATGTTGTGCGTTCATATGTGTACAC
ATATTTTTTTTTCTCTACAATAATGTGCTTAATATTCTGAGGGTAAATATCTATTGCAGA
ACTGGTATGCTGGTCACTTTTTGGTGANAAATGACAGAGATNAAAACCCCACAGTCACAG
TTATTTACCATAGNTATAANGGGATAGTCATAAACC
```

Restriction Sites: NotI-NotI

ACCN: NM_003042

Insert Size: 4840 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).

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_003042.2, NP_003033.2

RefSeq Size: 4493 bp

RefSeq ORF: 1800 bp

Locus ID: 6529

UniProt ID: P30531

Cytogenetics: 3p25.3

Domains: SNF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a gamma-aminobutyric acid (GABA) transporter that localizes to the plasma membrane. The encoded protein removes GABA from the synaptic cleft, restoring it to presynaptic terminals. [provided by RefSeq, Jan 2017]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.