

Product datasheet for **RG224641**

SLC45A1 (NM_001080397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC45A1 (NM_001080397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC45A1
Synonyms:	DNB5; IDDNPF; PAST-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG224641 representing NM_001080397
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATCCCCGAGCCAGCAGCACCCCGCGGAGATGCCCTCTCCCCAGCGTGGCCCCACAGGACTTCT
 GGAGGTCCCAGGTCACGGGCTACTCGGGTCCGTGACACGACACCTCAGTCACCGGGCCAACAACCTCAA
 ACGACACCCCAAGAGGAGGAAGTGCAATTCGTCCCTCCCCACCCCGCCCCCAACACCCCGTGCCCGCTT
 GAGCTGGTGGACTTCGGGGACCTGCACCCCGAGAGGTCTTCCGGGAGCTGCTTTTCAACGGCTGCATTC
 TCTTTGGCATCGAGTTCAGCTACGCCATGGAGACGGCGTACGTGACCCCGGTGCTCTGCAGATGGGCT
 GCCCGACCACTCTACAGCCTGGTGTGGTTCATCAGCCCATCTCGGATTCTACTGCAGCCTCTGTTG
 GGTGCTTGGAGTGACCGGTGTACCTCAAGTTTGAAGGAGACGCCCTTTCATTCTTGCCTGGCTATAG
 GGGCACTGCTGGCCTCTCGCTTGTGTAATGGCCGGGACATTGGCATCGCCCTGGCTGACGTGACCGG
 GAACCACAAGTGGGCTGCTGCTGACCGTGTGCGGTGTGGTGTGATGGACTTTAGCGCGACTCGGCG
 GACAACCCAGCCACGCCTACATGATGGACGTGTGCAGCCCGCAGACAGGACCGAGGCTGAACATCC
 ACGCCCTCCTGGCAGGTCTCGGAGGAGGCTTTGGATACGTGGTGGCGGAATCCACTGGGATAAACGGG
 CTTCGGGAGGGCCTGGGGGACAGCTCCGAGTCATTTACCTCTTCACTGCGGTACCCCTGAGCGTCACC
 ACCGTCCTGACCTGGTCAAGTCCCTGAGAGGCGCTGCGGCCCGCGAGTGAGAAGCGGGCAGCCATGA
 AGAGCCCCAGCCTCCCGCTGCCCCGTCACCCCGTCTGCCAGAGGAAGGCCCTGGGACAGCCTCCC
 GTCGCACACGGCCACCACTTCTCCAGCCCATCTCGCCGCCAGCCCCCTACGCCCAAGTACGGCAGC
 TTCATCAGCAGGACAGTCCCTGACGGGCATCAGCGAGTTCGCTCATCCTTTGGCAGGCCAACATAG
 ACAGCGTCTCTATTGACTGCTTACGGGGCGGCCACGACAGTACCTGGCCATCCCTGGCAGCGTCCCCAG
 GCCGCCCATCAGCGTCAGCTTCCCCGGGCCCGGACGGCTTCTACCGCCAGGACCGTGGACTTCTGGAG
 GGCAGAGAGGGTGCCCTGACCTCCGCTGTGACGGGGACATTCTGAGGGTGGGCTCCTTGGACACCTCTA
 AGCCGAGGTCTCAGGGATTCTGAAGAGACCTCAGACCTTGCCATCCCGGACGACCGGAGGAGGGGG
 TCCCGAAACCAGCAGGAGAAGGAATGTGACCTTCAGTCAGCAGGTGGCCAATATCCTGCTCAACGGCGTG
 AAGTATGAGAGCGAGCTGACGGGCTCCAGCGAGCGCGGAGCAGCCTCTGTCCGTGGGGCGCCTCTGCT
 CCACCATCTGCAACATGCCCAAGGCGCTACGACCCCTCTGCGTCAACCACTTCTGGGGTGGCTCTCATT
 CGAGGGGATGTTGCTCTTCTACACAGACTTCATGGGCGAGGTGGTGTTCAGGGGGACCCCAAGGCCCCG
 CACACATCAGAGGCGTATCAGAAGTACAACAGCGCGTGACCATGGGCTGCTGGGGCATGTGTATCTACG
 CCTTCAGTGCTGCCTTCTACTCAGCTATCCTGGAGAAGCTGGAGGAGTTCCTCAGCGTCCGACCCCTCTA
 CTTCATCGCCTATCTCGCCTTCGGCCTGGGGACCGGGCTTGCCACCCCTCTCCAGGAACCTCTACGTGGTC
 CTGTGCTCTGCATAACCTACGGGATTTATTTTCCACCCTGTGCACCTTGCTTACTCGCTGCTCTGCG
 ATTACTATCAGAGTAAGAAGTTTGACGGGTCCAGTGCGGACGGCACCCGGCGGGGCATGGGCGTGACAT
 CTCTCTGCTGAGCTGCCAGTACTTCTGGCTCAGATTCTGGTCTCCCTGGTCTGGGGCCCTGACCTCG
 GCCGTGGGCAGTGCCAAACGGGGTGATGTACTTCTCCAGCCTCGTGTCTTCTGGGCTGCTGTACTCTCT
 CCCTGTTTGTCAATTTATGAAATTCCTCCAGCGACGCTGCAGACGAGGAGACCGGCCCTCTGCTGAA
 CGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224641 representing NM_001080397
 Red=Cloning site Green=Tags(s)

MIPAASTPPGDALFPSVAPQDFWRSQVTGYSGSVTRHLSHRANNFKRHPKRRKCIRSPPPPPNTPCPL
 ELVDFGDLHPQRSFRELLFNGCILFGIEFSYAMETAYVTPVLLQMLPDQLYSLVWFISPILGFLQPLL
 GAWSDRCTSRFGRRRPFILVLAIGALLGLSLLNGRDIGIALADVTGNHKWGLLLTVCGVVLMDFSADSA
 DNPSHAYMMDVCSPADQDRGLNIHALLAGLGGFGYVVGGIHWDKTGFGRALGGQLRVIYLFYAVTLST
 TVLTLVSIPLRPPSEKRAAMKSPSLPLPPSPVLPPEGPGDSLPSHTATNFSSPISPPSPLTPKYGS
 FISRDSSLTGISEFASSFGTANIDSVLIDCFTGGHDSYLAIPGSVPRPPIVSFPRAPDGFYRQDRGLLE
 GREGALTSKGDGILRVGSLDTSKPRSSGILKRPQTLAIPDAAGGGGPETSRRRNVTFSSQVANILLNGV
 KYESELTGSSERAQPLSVGRCLSTICNMPKALRTLNVNHLGWSFEGMLLFYDFMGVEVVFQGDPAKAP
 HTSEAYQKNSGVTMGCWGMCIYAFSAFYSAILEKLEEFISVRTLYFIAYLAFGLGTGLATLSRNLVYV
 LSLCITYGILFSTLCTLPYSLCDYYQSKKFAGSSADGTRRGMGVDISLLSCQYFLAQILVSLVLGLPTS
 AVGSANGVMYFSSLVSLGCLYSSLFVIYEIPPSDAADDEHRPLLLNV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080397

ORF Size: 2244 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_001080397.3](#)

RefSeq Size: 2401 bp

RefSeq ORF: 2247 bp

Locus ID: 50651

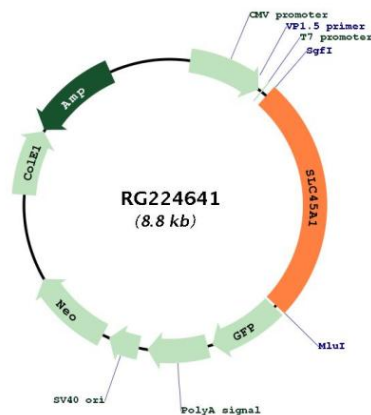
UniProt ID: [Q9Y2W3](#)

Cytogenetics: 1p36.23

Protein Families: Transmembrane

Gene Summary: This gene was isolated initially from a region on chromosome 1p that is frequently deleted in human neuroblastoma, although no causal relationship has since been demonstrated. The encoded protein belongs to the glycoside-pentoside-hexuronide cation symporter transporter family and may play a role in glucose uptake. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RG224641