

Product datasheet for **RG226754**

SLC13A5 (NM_001143838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC13A5
Synonyms:	DEE25; EIEE25; INDY; mIndy; NACT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG226754 representing NM_001143838
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTCGGCGCTGAGCTATGTCTCCAAGTTCAAGTCCTTCGTGATCTTGTTCTGTCACCCCGCTCCTGC
 TGCTGCCACTCGTCATTCTGATGCCCGCCAAGTTTGTCAAGTGTGCCTACGTATCATCCTCATGGCCAT
 TTAAGTGTGACAGAAAGTCATCCCTCTGGCTGTACCTCTCTCATGCCTGTCTTGCTTTTCCCACTCTTC
 CAGATTCTGGACTCCAGGCAGGTGTGTGTCCAGTACATGAAGGACACCAACATGCTGTTCTGGGCGGCC
 TCATCGTGGCGGTGGCTGTGGAGCGCTGGAACCTGCACAAGAGGATCGCCCTGCGCACGCTCCTCTGGGT
 GGGGGCCAAGCCTGCACGGCTGATGCTGGGCTTCATGGGCGTCACAGCCCTCCTGTCCATGTGGATCAGT
 AACACGGCAACACGGCCATGATGGTGCCCATCGTGGAGGCCATATTGCAGCAGATGGAAGCCACAAGCG
 CAGCCACCGAGGCCGCGCTGGAGCTGGTGACAAGGGCAAGGCCAAGGAGCTGCCAGGGAGTCAAGTGAT
 TTTTGAAGGCCCACTCTGGGCGAGCAGGAAGACCAAGAGCGGAAGAGTTGTGTAAGGCCATGACCCTG
 TGCATCTGCTACGCGGCCAGCATCGGGGGCACCGCCACCCTGACCGGGACGGGACCCAACGTGGTGCTCC
 TGGGCCAGATGAACGAGTTGTTTCTGACAGCAAGGACCTCGTGAACCTTGTCTTCTGGTTTGCATTTCG
 CTTTCCCAACATGCTGGTGATGCTGCTGTTTCGCTGGCTGTGGCTCCAGTTTGTTCATGAGATTCAAT
 TTTAAAAAGTCTGGGCTGCGGGCTAGAGAGCAAGAAAAACGAGAAGGCTGCCCTCAAGTGCTGCAGG
 AGGAGTACCGGAAGCTGGGGCCCTTGTCTTCGCGGAGATCAACGTGCTGATCTGCTTCTTCTGCTGGT
 CATCTGTGGTTCTCCCGAGACCCCGGCTTCATGCCCGGCTGGCTGACTGTTGCCTGGGTGGAGGGTGAG
 ACAAAGTATGTCTCCGATGCCACTGTGGCCATCTTTGTGGCCACCCTGCTATTATTGTGCCTTCACAGA
 AGCCCAAGTTTAACTTCCGAGCCAGACTGAGGAAGAAAGGAAACTCCATTTTATCCCCCTCCCTGCT
 GGATTGGAAGGTAACCCAGGAGAAAGTGCCCTGGGGCATCGTGCTGCTACTAGGGGGCGGATTTGCTCTG
 GCTAAAGGATCCGAGGCCCTCGGGGCTGTCCGTGTGGATGGGGAAGCAGATGGAGCCCTTGACACGAGTGC
 CCCCAGCAGCCATCACCTTGATCTTGTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CACCACCACCTTGTCTGCCATCTTGCCTCCATGGTGAAAACAGGAGTCATAATGAACATAATTGGA
 GTCTTCTGTGTGTTTTGGCTGTCAACACCTGGGGACGGCCATATTGACTTGGATCATTTCCCTGACT
 GGGCTAATGTGACACATATTGAGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226754 representing NM_001143838
 Red=Cloning site Green=Tags(s)

MASALSYVSKFSFVILFVTPLLLLPLVILMPAKFVRCAYVILMAIYWCTEVIPLAVTSLMPVLLFPLF
 QILDSRQVCVQYMKDNTMLFLGGLIVAVAVERNLHKRIALRTLLWVGAKPARMLMGFMGVTALLSMWIS
 NTATTAMMPVIVEAILQQMEATSAATEAGLELVDKGKAKELPGSQVIFEGPTLQQQEDQERKRLCKAMTL
 CICYAASIGGTATLTGTGPNVLLGQMNELFPDSKDLVNFASWFAFAFPNMLVMLLFAWLWLQFVYMRFN
 FKKSWSGCGLESKKNEKAALKVLQEEYRKLGPLSFAEINVLICFLLVILWFSRDPGFMPGWLTVAVVEGE
 TKYVSDATVAIFVATLLFIVPSQKPKFNFRSQTEERKTPFYPPPLLDWKVTQEKVPWGIWLLGGGFAL
 AKGSEASGLSVWMGKQMEPLHAVPPAAITLILSLLVAVFTECTSNVATTTLFLPIFASMVKTGVIMNIIG
 VFCVFLAVNTWGRAIFDLDFPDWANVTHIET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143838

ORF Size: 1566 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001143838.3](#)

RefSeq Size: 3145 bp

RefSeq ORF: 1569 bp

Locus ID: 284111

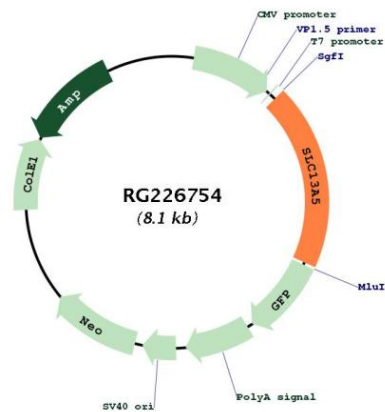
UniProt ID: [Q86YT5](#)

Cytogenetics: 17p13.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein belonging to the solute carrier family 13 group of proteins. This family member is a sodium-dependent citrate cotransporter that may regulate metabolic processes. Mutations in this gene cause early infantile epileptic encephalopathy 25. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Product images:



Circular map for RG226754