

## Product datasheet for **RC226754**

### SLC13A5 (NM\_001143838) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A5 (NM_001143838) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC13A5
Synonyms:	DEE25; EIEE25; INDY; mIndy; NACT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC226754 representing NM\_001143838  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTCGGCGCTGAGCTATGTCTCCAAGTCAAGTCTTCGTGATCTTGTTCGTACCCCGCTCTCTGC  
 TGCTGCCACTCGTCATTCTGATGCCCGCAAGTTTGTCAAGTGTGCTAGGTCATCATCCTCATGGCCAT  
 TTAAGTGTGCACAGAAGTCATCCCTCTGGCTGTACCTCTCTCATGCCTGTCTTGTCTTTCCCACTCTTC  
 CAGATTCTGGACTCCAGGCAGGTGTGTGTCCAGTACATGAAGGACACCAACATGCTGTTCTGGCGGCC  
 TCATCGTGGCCGTGGCTGTGGAGCGCTGGAACCTGCACAAGAGGATCGCCCTGCGCACGCTCCTCTGGGT  
 GGGGGCCAAGCCTGCACGGCTGATGCTGGGCTTCATGGGCGTACAGCCCTCCTGTCCATGTGGATCAGT  
 AACACGGCAACCACGGCCATGATGGTGGCCATCGTGGAGGCCATATTGCAGCAGATGGAAGCCACAAGCG  
 CAGCCACCGAGGCCGCTGGAGCTGGTGGACAAGGGCAAGGCCAAGGAGCTGCCAGGGAGTCAAGTGTAT  
 TTTTGAAGGCCCACTCTGGGGCAGCAGGAAGACCAAGAGCGGAAGAGGTTGTGTAAAGCCATGACCCTG  
 TGATCTGCTACGCGGCCAGCATCGGGGCACCGCCACCCTGACCGGGACGGGACCAACGTTGGTGTCTC  
 TGGCCAGATGAACGAGTTGTTTCTGACAGCAAGGACCTCGTGAACCTTGTCTCCTGGTTTGCATTTCG  
 CTTTCCCAACATGCTGGTGTGCTGCTGTTTCGCTGGCTGTGGCTCCAGTTTGTTCATGAGATTAAT  
 TTTAAAAAGTCTGGGGCTGCGGGCTAGAGAGCAAGAAAACGAGAAGGCTGCCCTCAAGGTGCTGCAGG  
 AGGAGTACCGGAAGTGGGGCCCTTGTCTTCGCGGAGATCAACGTGCTGATCTGCTTCTCCTGCTGGT  
 CATCCTGTGGTTCTCCGAGACCCCGCTTCATGCCCGGCTGGCTGACTGTTGCCTGGTGGAGGGTGAG  
 ACAAGTATGTCTCCGATGCCACTGTGGCCATCTTTGTGGCCACCCTGCTATTCAATTGTGCTTCCACAGA  
 AGCCCAAGTTTAACTTCCGACCCAGACTGAGGAAGAAAAGAAAACCTCATTTTATCCCCCTCCCCTGCT  
 GGATTGGAAGGTAACCCAGGAGAAAGTGCCTGGGGCATCGTGTCTACTAGGGGGCGGATTTGCTCTG  
 GCTAAAGGATCCGAGGCCTCGGGGCTGTCCGTGTGGATGGGAAGCAGATGGAGCCCTTGCACGAGTGC  
 CCCCAGCAGCATCACCTTGTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 CACCACCCTTGTCTGCCCCATCTTTGCCTCCATGGTGAACAGGAGTCATAATGAACATAATTGGA  
 GTCTTCTGTGTGTTTTGGCTGTCAACACCTGGGGACGGGCCATATTTGACTTGGATCATTTCCCTGACT  
 GGGCTAATGTGACACATATTGAGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226754 representing NM\_001143838  
 Red=Cloning site Green=Tags(s)

MASALSYVSKFKSFVILFVTPLLLLPLVILMPAKFVRCAYVIIILMAIYWCTEVIPLAVTSLMPVLLFPLF  
 QILDSRQVCVQYMKDTNMLFLGGLIVAVAVERNLHKRIALRLLWVGAKPARLMLGFMGVTALLSMWIS  
 NTATTAMVPIVEAILQQMEATSAATEAGLELVKDGKAKELPGSQVIFEGPTLGQQEDQERKRLCKAMTL  
 CICYAASIGGTATLTGTGPNVLLGQMNELFPDSKDLVNFASWFAFAPNMLVMLLFAWLWQFVYMRFN  
 FKKSWGCGLESKNEKAALKVLQEEYRKLGPLSFAEINVLICFFLLVILWFSRDPGFMPGWLTVAWVEGE  
 TKYVSDATVAIFVATLLFIVPSQKPKFNFRSQTEERKTPFYPPPLLDWKVTQEKVPWGIVLLGGGFAL  
 AKGSEASGLSVWVGKQMEPLHAVPPAAITLILSLLVAVFTECTSNVATTLFLPIFASMVKTGVIIMNIIG  
 VFCVFLAVNTWGRAIFDLDFPDWANVTHIET

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4725\\_d07.zip](https://cdn.origene.com/chromatograms/mg4725_d07.zip)

**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.

**RefSeq:** [NM\\_001143838.3](#)

**RefSeq ORF:** 1569 bp

**Locus ID:** 284111

**UniProt ID:** [Q86YT5](#)

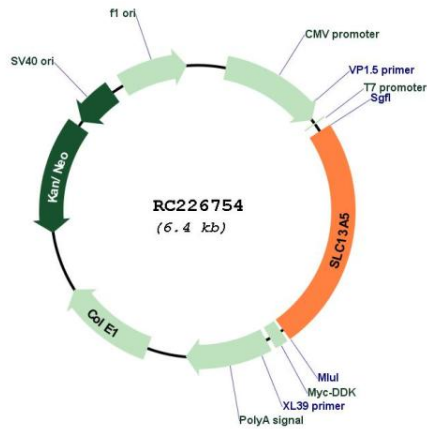
**Cytogenetics:** 17p13.1

**Protein Families:** Transmembrane

MW: 57.9 kDa

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 RC226754