

Product datasheet for **RC211155**

SLC13A5 (NM_177550) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A5 (NM_177550) 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)



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ORF Nucleotide
Sequence:

>RC211155 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACATATAGGGCGGCCGGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCTCGCGCTGAGC|ATGTCTCCAAGTTC|CAAGTCTTCTG|TGATCTTGTTCGTCACCCCGCTCTCG
TGCTGCCACTCGTCATTCTGATGCCCGCCAAGTTTGTCAAGTGTGCCTACGTATCATCTCATGGCCAT
TTACTGGTGCACAGAAGTCATCCCTCTGGCTGTACCTCTCTCATGCCTGTCTTGCTTTTCCCACTCTTC
CAGATTCTGGACTCCAGGCAGGTGTGTGTCCAGTACATGAAGGACACCAACATGCTGTTCTTGGCGGCC
TCATCGTGGCCGTGGCTGTGGAGCGCTGGAACCTGCACAAGAGGATCGCCCTGCGCACGCTCCTCTGGG
GGGGGCCAAGCCTGCACGGCTGATGCTGGGCTTCATGGGCGTCACAGCCCTCCTGTCCATGTGGATCAGT
AACACGGCAACCACGGCCATGATGGTGCCCATCGTGGAGGCCATATTGCAGCAGATGGAAGCCACAAGCG
CAGCCACCGAGGCCGGCCTGGAGCTGGTGGACAAGGGCAAGGCCAAGGAGCTGCCAGGGAGTCAAGTGAT
TTTTGAAGGCCCACTCTGGGGCAGCAGGAAGACCAAGAGCGGAAGAGGTTGTGTAAAGCCATGACCTG
TGCATCTGCTACGCGGCCAGCATTCGGGGGACCCGCCACCTGACCGGGACGGGACCCAACGTGGTGTCTC
TGGGCCAGATGAACGAGTTGTTTCTGACAGCAAGGACCTCGTGAACCTTGCTTCTCTGTTTGCAATTTGC
CTTTCCCAACATGCTGGTGATGCTGCTGTTTGCCTGGCTGTGGCTCCAGTTTGTTTACATGAGATTCAA
TTTAAAAAGTCTCTGGGGCTGCGGGCTAGAGAGCAAGAAAAACGAGAAGGCTGCCCTCAAGGTGCTGCAGG
AGGAGTACCGGAAGCTGGGGCCCTTGCTTTCGCGGAGATCAACGTGCTGATCTGCTTCTTCTCTGCTGGT
CATCTGTGGTTCTCCCGAGACCCCGGCTTCATGCCCGGCTGGCTGACTGTTGCCTGGGTGGAGGGTGAG
ACAAAGTATGTCTCCGATGCCACTGTGGCCATCTTTGTGGCCACCTGCTATTATTGTGCCTTCACAGA
AGCCCAAGTTTAACTTCCGCAGCCAGACTGAGGAAGAAAGGAAAACCTCCATTTATCCCCCTCCCCTGCT
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GCTAAAGGATCCGAGGCCTCGGGGCTGTCCGTGTGGATGGGGAAGCAGATGGAGCCCTTGACGCAGTGC
CCCCGGCAGCCATCACCTTGTGACTTGTCTTGTCTGCTGTCGTTGCCGTGTTCACTGAGTGCACAAGCAACGTGGC
CACCACCACTTGTTCCTGCCATCTTTGCCCTCAGTGTCTGCTCCATCGGCCTCAATCCGCTGTACATC
ATGCTGCCCTGACCTGTAGTGCCTCCTTTGCCTTATGTTGCTGTGGCGACCCCTCCAATGCCATCG
TGTTCACTATGGGCACCTCAAGGTTGCTGACATGGTGAACACAGGAGTCAATAATGAACATAATTGGAGT
CTTCTGTGTGTTTTGGCTGTCAACACCTGGGGACGGGCCATTTGACTTGATCATTTCCCTGACTGG
GCTAATGTGACACATATTGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211155 protein sequence

Red=Cloning site Green=Tags(s)

MASALSYSVKFSFVILFVTPLLLLPLVILMPAKFVRCAYVILMAIYWCTEVIPLAVTSLMPVLLFPLF
QILDSRQVCVQYMKDNTNMLFLGGLIVAVAVERNLHKRIALRTLLWVGAKPARMLGFMGVTALLSMWIS
NTATTAMVPIVEAILQQMEATSAATEAGLELVDKGAKELPGSQVIFEGPTLGQQEDQERKRLCKAMTL
CICYAASIGGTATLTGTGPNVLLGQMNELFPDSKDLVNFASWFAFAFPNMLVMLLFAWLWLQFVYMRFN
FKKSWGCGLESKKNEKAALKVLQEEYRKLGPLSFAEINVLCIFLLVILWFSRDPGFMPGWLTVAVVEGE
TKYVSDATVAIFVATLLFIVPSQPKPFNFRSQTEERKTPFYPPPLLDWKVQTEKVPWGIVLLGGGFAL
AKGSEASGLSVWMGKQMEPLHAVPPAAITLILSLLVAVFTECTSNVATTTFLPIFASMSRSIGLNPLYI
MLPCTLSASFAMLPVATPPNAIVFTYGLKVDAMVKTGVIMNIIGVFCVFLAVNTWGRAIFDLDFHPDW
ANVTHIET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

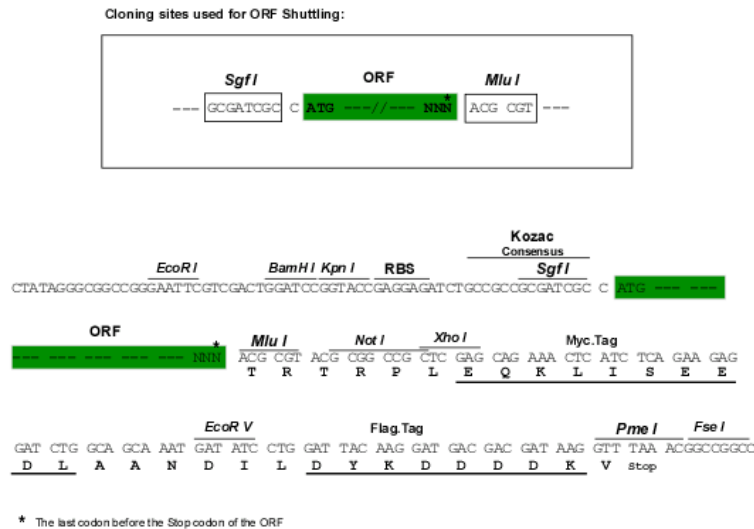
Chromatograms:

https://cdn.origene.com/chromatograms/mk6762_e09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_177550

ORF Size: 1704 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_177550.5](#)

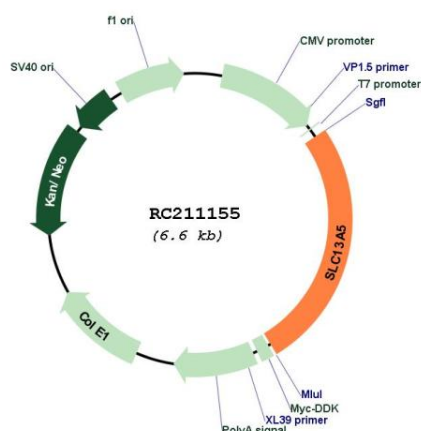
RefSeq Size: 3316 bp

RefSeq ORF: 1707 bp

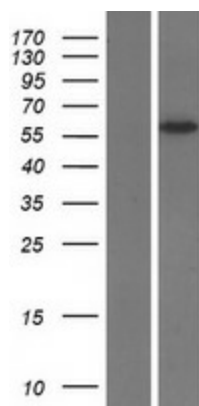
Locus ID: 284111

UniProt ID:	Q86YT5
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
MW:	63.1 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 RC211155



Western blot validation of overexpression lysate (Cat# [LY406081]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211155 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).