

Product datasheet for **RC206281**

EAAT3 (SLC1A1) (NM_004170) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EAAT3 (SLC1A1) (NM_004170) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EAAT3
Synonyms:	DCBXA; EAAC1; EAAT3; SCZD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206281 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAAACCGCGAGGAAAGGATGCGAGTGGAAAGCGCTTCTGAAGAATAACTGGGTGTGTGTGCCA
 CCGTGGCCGCGGTGGTGTCTAGGCATTACCACAGGAGTCTTGTTTCGAGAACACAGCAACCTCTCAACTCT
 AGAGAAATTCTACTTTGCTTTTCTGGAGAAATCTAATGCGGATGCTGAAACTCATCTTTTCCATTA
 ATTATATCCAGCATGATTACAGGTGTGCTGCACTGGATTCCAACGTATCCGAAAAAATGGTGTGCGCG
 CTGTGCTGTATTATTTCTGTACCACTCTCATTGCTGTTATTCTAGGTATTGTGCTGGTGGTGGAGCATCA
 GCCTGGTGTCAACCAGAAAGTGGTGAATTCGAGGACAGGCAGCACCCCTGAAGTCAGTACGGTGGAT
 GCCATGTTAGATCTCATCAGGAATATGTTCCCTGAGAATCTTGTCCAGGCCTGTTTTCAGCAGTACAAAA
 CTAAGCGTGAAGAAGTGAAGCTCCAGCGATCCAGAGATGAACATGACAGAAGAGTCTTCACAGCTGT
 CATGACAACCTGCAATTTCCAAGAACAAAACAAAGGAATACAAAATGTTGGCATGTATTCAGATGGCATA
 AACGTCCTGGGCTTGATTGTCTTTTGCCTTGTCTTTGGACTTGTCAATGGAAAAATGGGAGAAAAGGGAC
 AAATTCTGGTGGATTTCTCAATGCTTTGAGTGATGCAACCATGAAAATCGTTTCAGATCATCATGTGTTA
 TATGCCACTAGGTATTTTGTCTGATTGCTGGGAAGTACATAGAAGTTGAAGACTGGGAAATATCCGC
 AAGCTGGGCTTTACATGGCCACAGTCTGACTGGGCTTGCAATCCACTCCATTGTAATTTCTCCGCTGA
 TATATTTTCATAGTCGTACGAAAGAACCTTTCCGATTTGCCATGGGAATGGCCAGGCTCTCCTGACAGC
 TCTCATGATCTCTCCAGTTCAGCAACTGCCTGTACCTTCCGCTGTGCTGAAGAAAAAACCAGGTG
 GACAAGAGGATCACTCGATTCTGTTTACCCGTTGGTGAACAATCAACATGGATGGGACTGCGCTCATG
 AAGCAGTGGCAGCGGTGTTTATTGCACAGTTGAATGACCTGGACTTGGGCATTGGGCAGATCACCAT
 CAGTATCACGGCCACATCTGCCAGCATCGAGCTGCTGGCGTGCCCAAGGCTGGCCTGGTGACCATGGTG
 ATTGTGCTGAGTGCCGTGGGCTGCCCGCCGAGGATGTCACCCTGATCATTGCTGTGCACTGGCTCCTGG
 ACCGGTTCAGGACCATGGTCAACGTCCTTGGTGTGCTTTTGGGACGGCATTGTGGAAAAGCTCTCCAA
 GAAGGAGCTGGAGCAGATGGATGTTTCTGAAAGTCAACATTGTGAATCCCTTTGCCTTGGAAATCCACA
 ATCCTTGACAACGAAGACTCAGACACCAAGAAGTCTTATGTCAATGGAGGCTTGCAGTAGACAAGTCTG
 ACACCATCTCATTACCCAGACCTCACAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206281 protein sequence
 Red=Cloning site Green=Tags(s)

MGKPKARKGCEWKRFLKNNWVLLSTVAAVVLGITTGVLVREHSNLSTLEKIFYFAPFGEILMRMLKLIILPL
 IISSMITGVAALDSNVSGKIGVRAVVYFCTTLIAVILGIVLVVSIKPGVTQKVGEIARTGSTPEVSTVD
 AMLDLIRNMFENLVQACFQYKTKREEVKPPSPENMTEESFTAVMTTAISKNKTKKEYKIVGMYSDGI
 NVLGLIVFCLVFLVIGKMGKQILVDFFNALSDATMKIVQIIMCYMPLGILFLIAGKIEVEDWEIFR
 KLGLYMATVLTGLAIHSIVILPLIYFIVVRKNPFRFAMGMAQALLTALMISSSSATLPVTFRCAEENQV
 DKRITRFVLPVGATINMDGTALYEAAVVFIAQLNDLDLIGIQIITISITATSASIGAAGVPQAGLVMTV
 IVLSAVGLPAEDVTLIIAVDWLLDRFRTMVNVLGDAFGTGIVEKLSKKELEQMDVSEVNI VNPFALEST
 ILDNESDTKKSYVNGGFAVDKSDTISFTQTSQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6196_g07.zip

Restriction Sites:

Sgfl-MluI

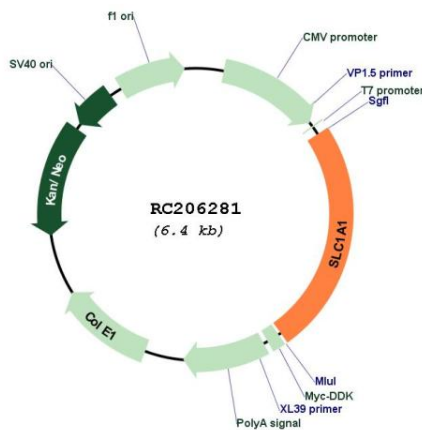
Domains: SDF

Protein Families: Druggable Genome, Transmembrane

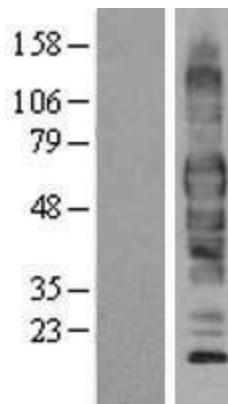
MW: 57.1 kDa

Gene Summary: This gene encodes a member of the high-affinity glutamate transporters that play an essential role in transporting glutamate across plasma membranes. In brain, these transporters are crucial in terminating the postsynaptic action of the neurotransmitter glutamate, and in maintaining extracellular glutamate concentrations below neurotoxic levels. This transporter also transports aspartate, and mutations in this gene are thought to cause dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC206281



Western blot validation of overexpression lysate (Cat# [LY401342]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206281 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).