

Product datasheet for RC222696L3

OriGene Technologies, Inc.

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Glucose Transporter GLUT1 (SLC2A1) (NM 006516) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Glucose Transporter GLUT1 (SLC2A1) (NM_006516) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Glucose Transporter GLUT1

Synonyms: CSE; DYT9; DYT17; DYT18; EIG12; GLUT; GLUT-1; GLUT1DS; HTLVR; PED; SDCHCN

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

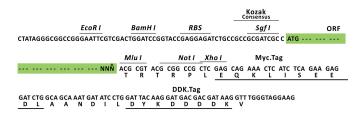
The ORF insert of this clone is exactly the same as(RC222696).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_006516

ORF Size: 1476 bp



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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: <u>NM 006516.1</u>

 RefSeq Size:
 2856 bp

 RefSeq ORF:
 1479 bp

 Locus ID:
 6513

 UniProt ID:
 P11166

Cytogenetics: 1p34.2

Domains: sugar_tr

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Pathways in cancer, Renal cell carcinoma

MW: 53.9 kDa

Gene Summary: This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The

encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by

RefSeq, Apr 2013]