

Product datasheet for RC207899L3

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

CHSY1 (NM_014918) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CHSY1 (NM_014918) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: CHSY1

Synonyms: CHSY; ChSy-1; CSS1; TPBS

Mammalian Cell Puromycin

Selection:

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

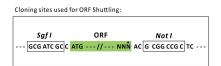
E. coli Selection: Chloramphenicol (34 ug/mL)

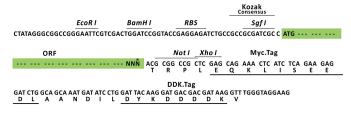
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC207899).

Sequence:

Restriction Sites: Sgfl-Notl

Cloning Scheme:





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

ACCN: NM_014918

ORF Size: 2406 bp





CHSY1 (NM_014918) Human Tagged Lenti ORF Clone - RC207899L3

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 014918.4</u>

 RefSeq Size:
 4567 bp

 RefSeq ORF:
 2409 bp

 Locus ID:
 22856

 UniProt ID:
 Q86X52

Cytogenetics: 15q26.3

Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis, Metabolic pathways

MW: 91.8 kDa

Gene Summary: This gene encodes a member of the chondroitin N-acetylgalactosaminyltransferase family.

These enzymes possess dual glucuronyltransferase and galactosaminyltransferase activity and play critical roles in the biosynthesis of chondroitin sulfate, a glycosaminoglycan involved in many biological processes including cell proliferation and morphogenesis. Decreased expression of this gene may play a role in colorectal cancer, and mutations in this gene are a

cause of temtamy preaxial brachydactyly syndrome. [provided by RefSeg, Dec 2011]