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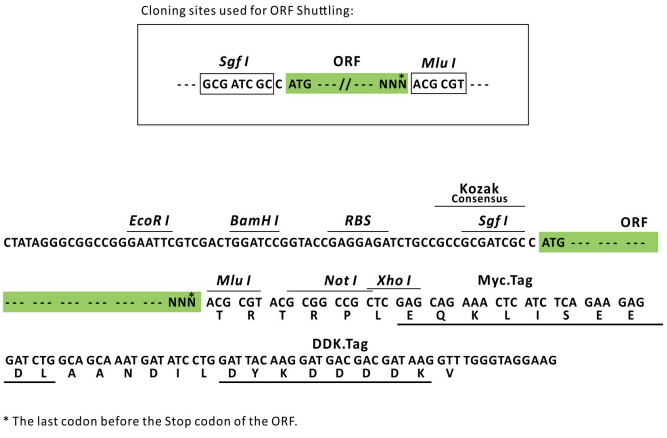
Product datasheet for RC205706L3

GAL3ST1 (NM_004861) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAL3ST1 (NM_004861) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	GAL3ST1
Synonyms:	CST
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205706).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	



ACCN:	NM_004861
ORF Size:	1269 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:	NM_004861.1
RefSeq Size:	1791 bp
RefSeq ORF:	1272 bp
Locus ID:	9514
UniProt ID:	Q99999
Cytogenetics:	22q12.2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
MW:	48.8 kDa
Gene Summary:	Sulfonation, an important step in the metabolism of many drugs, xenobiotics, hormones, and neurotransmitters, is catalyzed by sulfotransferases. This gene encodes galactosylceramide sulfotransferase, which catalyzes the sulfation of membrane glycolipids including the final step in the synthesis of sulfatide, a major lipid component of the myelin sheath. This gene exhibits elevated expression in ovarian epithelial carcinoma and the encoded enzyme exhibits elevated activity in renal cell carcinoma. Mutations in this gene may be associated with reduced insulin resistance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]