

Product datasheet for **RR217710**

Lct (NM_053841) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Lct (NM_053841) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Lct
 Synonyms: Lph
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR217710 representing NM_053841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGCCTTGGACAGCACTCTTCTGAGTACTGTCTCCTGGGTCTTTCATGCCAGGGCTCTGACT
 GGAATCCGACAGAAATTTTATTTACGCCGCTGGTCTCTAACAATGACTTAGTGCTTAATCTGAAC
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ACGAGAGTGTGGTGGAGGCCCTTCTGGACTACGCAGCCTTCTGCTTCTCCACTTTTCGGGGACCGTGTGAA
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Protein Sequence:

>RR217710 representing NM_053841
 Red=Cloning site Green=Tags(s)

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 SSAIQREGAFADLFADYATLAFQSFGLVEIWFTFSDLEKVIDMLPHKDLKASALQTLNAHRRAFDIYH
 RKFSSQGGKLSVVLKAEDIPELLPDPALAAALVQGSVDFLSLDLSYECQSVATLPQKLSLQNLQLEPKVKVF
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 WIKEEYGNIPYITENGQGLENP TLDDTERIFYHKTYINEALKAYKLDGVDLRGYSAWTLMDDFEWLLGY
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 DGKGLSIWDTFSHTPLRIGNDDNGDVACDSYHKAEDVVALQNLGVSHYRFSIAWSRILPDGTTKFINA
 GLSYVRFIDALLAAGITPQVTIYHWDLQALQDVGGWENETIVQRKEYADVL FQRLGDRVKFWITLNE
 PFVIAAQGYGTGVSAPGISFRPGTAPYIAGHNL IKAHAEAWHL YNDVYRARQGGTISITISSDWAEPD
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 ENGVSRRGEPELNDTRIYYLRSYINEALKAVQDKVDLRGYTVWSIMDNFEWATGFAERFGVHFVNRSDP
 SLPRIPKASAKFYATIVRCNGFPDPAQGPCLQPEDAAPTASPVQSEVPFLGLMLGIAEAQTALVYLF
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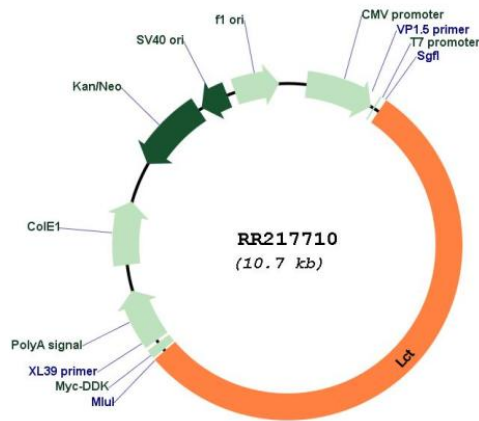
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_053841
ORF Size: 5787 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:	<ol style="list-style-type: none">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_053841.1 , NP_446293.1
RefSeq Size:	6117 bp
RefSeq ORF:	5790 bp
Locus ID:	116569
Cytogenetics:	13q13
MW:	217.6 kDa
Gene Summary:	catalyzes the hydrolysis of pyridoxine-5'-beta-D-glucoside to release pyridoxine; also catalyses the hydrolysis of lactose to D-glucose and D-galactose [RGD, Feb 2006]