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Product datasheet for RG205004

CLPS (NM_001832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLPS (NM_001832) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205004 representing NM_001832 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGAAGATCCTGATCCTCCTGCTTGTCGCCCTCTCTGTGGCCTATGCAGCTCCTGGCCCCCGGGGGA TCATTATCAACCTGGAGAACGGTGAGCTCTGCATGAATAGTGCCCAGTGTAAGAGCAATTGCTGCCAGCA TTCAAGTGCGCTGGGCCTGGCCCGCTGCACATCCATGGCCAGCGAGAACAGCGAGTGCTCTGTCAAGACG CTCTATGGGATTTACTACAAGTGTCCCTGTGAGCGTGGCCTGACCTGTGAGGGAGACAAGACCATCGTGG GCTCCATCACCAACACCAACTTTGGCATCTGCCATGACGCTGGACGCTCCAAGCAG ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG205004 representing NM_001832 Red=Cloning site Green=Tags(s) MEKILILLLVALSVAYAAPGPRGIIINLENGELCMNSAQCKSNCCQHSSALGLARCTSMASENSECSVKT LYGIYYKCPCERGLTCEGDKTIVGSITNTNFGICHDAGRSKQ TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI

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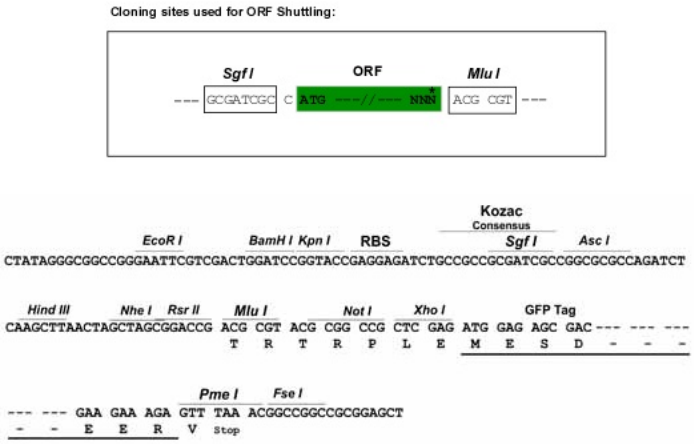
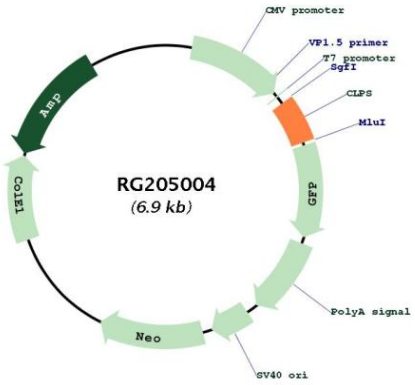
Cloning Scheme:



ACCN:	NM_001832
ORF Size:	336 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	NM_001832.4
RefSeq Size:	539 bp
RefSeq ORF:	339 bp
Locus ID:	1208
UniProt ID:	P04118
Cytogenetics:	6p21.31
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG205004