

## Specifications:

Gene:	hSLC16A12
Accession:	NP_998771
Insert size:	1564bp
Concentration:	10µg at 0.2µg/µL

## hSLC16A12 cDNA Plasmid

**SLC16A12 solute carrier family 16, member 12 (monocarboxylic acid transporter 12) [ *Homo sapiens* ]**

**Also known as:** CJMG; MCT12

### Summary:

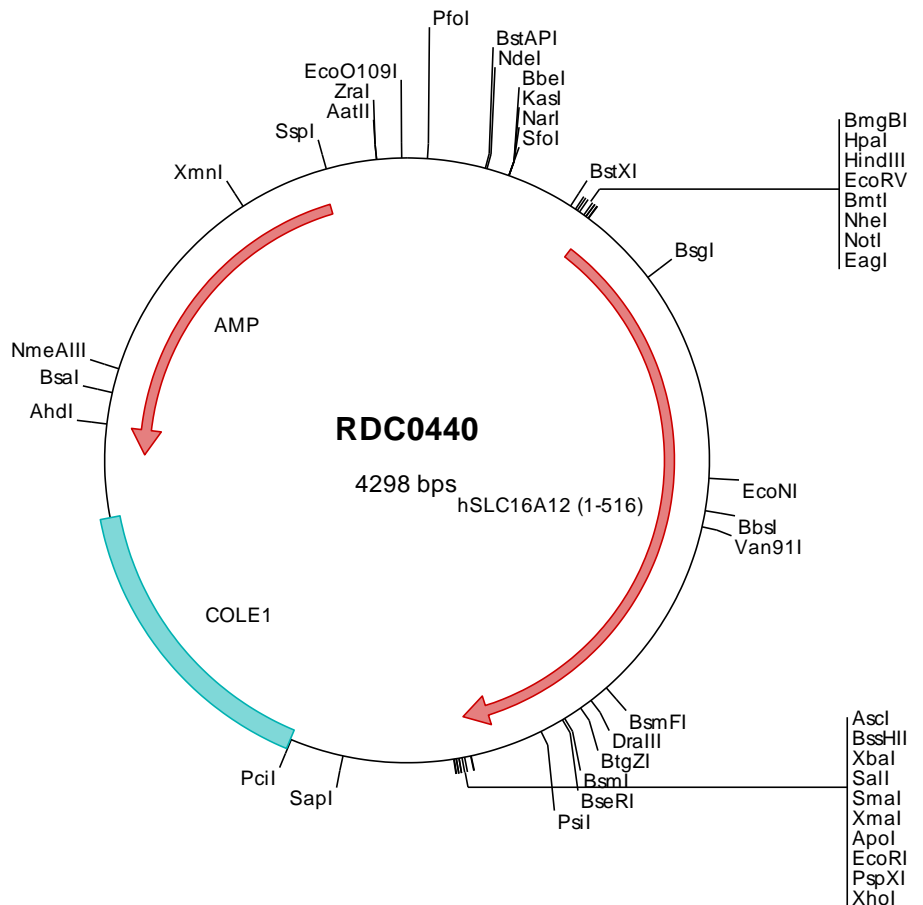
SLC16A12 is a transmembrane transporter that likely plays a role in monocarboxylic acid transport. A mutation in SLC16A12 has been associated with juvenile cataracts, microcornea and renal glucosuria. There is tissue-specific variability of SLC16A12 transcript levels. It exhibits high expression in the eye and kidney, the two organs affected by Renal Glucosuria. SLC16A12 may be important for lens and kidney homeostasis and play a role in age-related cataract.

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC0440 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgccc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taacgcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcctt ggatccgata tgcgtagcgc ggccgcacc atgccatcag gaagtcaact gacagcaaac tcttccaaga tcataacttg
501 gctgttggag caaactggaa aagaagaaaa aagaaaaacc atggcaaaag taaatagagc tgggtctacc tcccctccag atggaggctg gggctggatg
601 attgtggtg gctgtttcct tgttaccatc tgcaacgggg cagtcacaag atgtatctca atttttttg tggagtcca gacatacttc actcaggatt
701 acgcaacaac ggcattgcat cattccattg tagatttgtg gaccatgctc tggctctcac ttgggagtgt tgcagtaac catttactct gtaacagtgg
801 aatcatgctg ggtggccttg ttgcactcac tggactcact ctgagctcat ttgccacgag tctgaagcat ctctacctca ctctgggagt tcttacaggt
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1801 atatttagtt ctgtgttctg ttgcttctgt agactataaa agagaatgag aaaaaccagc ttgcagttca ttgcaaaaaga atctgaacct aagctgcagc
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2001 aagtgcgacc agtatactct agagtgcaga cccggggaat tctcagagcg ctgctctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa
2101 ttgttatccg ctcaacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg ggggtccctaa tgagttagct aactcacatt aatgtcgttg
2201 cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgccc agctgcatta atgaatcggc caacgcgccc ggagagggcg tttgcgtatt gggcgctctt
2301 ccgcttcttc cctcactgca tgcctgcgct cggctgcttc atgtccggca gcggtatcag ctcaactaaa ggcgtaata cggttatcca cagaatcagc
2401 ggataaccca ggaagaaca tgtgagcaaa aggcacagca aagccagga accgtaaaaa gcccgcgttg ctggcgtttt tccataggct ccgccccct
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3001 caccgctggt agcgggtggt tttttgtttg caagcagcag attacgcgca gaaaaaagg atctcaagaa gatccttga tctttctac ggggtctgac
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3601 ctccggttcc caacagcaaa ggcgagttac atgatcccc atgtttgtca aaaaagcggg tagctcctc ggtcctccga tctgttgcag aagtaagttg
3701 cccgcagtg tatcaactcat ggttatggca gcactgcata attctcttac tgcatagca tccgtaagat gctttctgt gactggtgag tactcaaca
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4201 gcgcacattt ccccgaaaag tgccactgca cgtctaagaa accattatta tcatgacatt aacctataaa aataggcgta tcacgagggc ctttctgct

> RDC0440 Translated Insert Sequence

1 mpsgshwtan sskiiwllle ppgkeekrkt makvnrarst sppdggwgm ivagcflvti ctravtrcis iffvefqtyf tqdyaqtawi hsivdvmtl
101 caplgsvsn hlscqvgiml ggllastgli lssfatslkh lytlglvltg lgfalcyspa iamvgkyfsr rkalaygiam sgsgigtfil apvqqllieq
201 fswrgallil ggvfvlncvc galmrpilk edhttpqnh vcrtkedik rvspylsilk ewaqtclcc lqqeysfllm sdfvvlavsv lfmaygcspl
301 fvylvpyals vgvshqqaaf lmsilgvidi ignitfgwlt drclknycy vcylfavgmd glcylclpml qslpllvpfs ctfgyfdgay vtlipvutte
401 ivgttsslssa lgvvyflhav pylvsppiag rlvdtgtsyt aafllcgfsm ifssvllgfa rlikrkrktq lqfiakesdp klqlwtnsv aysvareldg
501 khgepvatav pgsylt