

Product datasheet for **MR224734**

Slco4c1 (NM_172658) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slco4c1 (NM_172658) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slco4c1
Synonyms:	9530051F04; C330017E21Rik; OATP-H; OATP-M1; oatp-R; OATP4C1; OATPX; PRO2176; SLC21A20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR224734 representing NM_172658
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCAGGGCTCCAAAGGAATAGAGAACCCGGCTTTCGTCCCTCCAGCCCAGGCACCCACGCCGTGCGT
CTGCTTCGCCCTCCAGGTGGAGGTCTCTGCTGTGGCCTCCAGGAATCAGAATGGGGTTTCGCAGCCTCG
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CCGCCGGGTACAGCTAAGCGAGCTTGAAGAGGACCTTGCGGTGGAGGGGCTTTCACCCCAAGTGT
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GAGGACACAAACCTCGTGGCTCGCTTTGCATCTTTATGATAGGCCTGGGAGCGCTGGTGTTCCTT
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TACGGGATTTGCCACATTTTACCTAAATTTATAGAAAATCAATTTGGATTGACATCGAGCTTTCAGCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224734 representing NM_172658
Red=Cloning site Green=Tags(s)

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MQGSKGIENPAFVPPSPGTPRRASASPSQVEVSAVASRNQNGSQPRESEEPQKSTEPSPSSNPPASDE
PPGSQLSELEEGPCGWRGFHPQCLQRCNTPQGFLHYCLLALTQGI VVNGLVNISISTIEKRYEMKSSLT
GLISSYDISFCVLSL FVSFFGERGHKPRWLAFAFMIGL GALVFLPHFFSGRYELGSIFEDTCLTRNS
TRCSSSTLLSNYFYVFLGQLLLGTGGTPLYLTGTAFIDDSVPTHKSSLYIGIGYSMSILGPAIGYVVG
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FEAKAGKCRTRCSNLP IFLGIFFITVIFTFMAGTPITV SILRCVNRHRSALGVQFMLLRLLGTIPGPI
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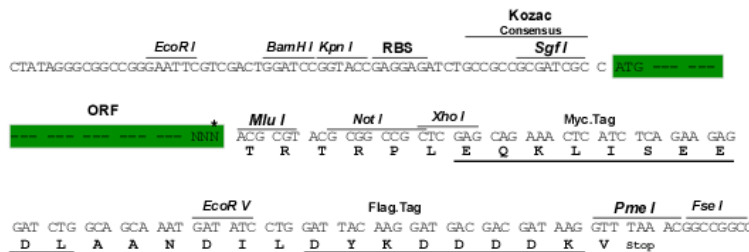
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172658

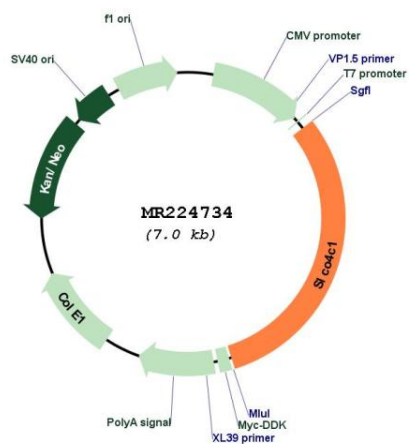
ORF Size: 2166 bp

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:	<u>NM_172658.3</u> , <u>NP_766246.1</u>
RefSeq Size:	2394 bp
RefSeq ORF:	2169 bp
Locus ID:	227394
UniProt ID:	<u>Q8BGD4</u>
Cytogenetics:	1 D
MW:	78.9 kDa
Gene Summary:	Organic anion transporter, capable of transporting pharmacological substances such as digoxin, ouabain, thyroxine, methotrexate and cAMP. May participate in the regulation of membrane transport of ouabain. Involved in the uptake of the dipeptidyl peptidase-4 inhibitor sitagliptin and hence may play a role in its transport into and out of renal proximal tubule cells. May be involved in the first step of the transport pathway of digoxin and various compounds into the urine in the kidney. May be involved in sperm maturation by enabling directed movement of organic anions and compounds within or between cells. This ion-transporting process is important to maintain the strict epididymal homeostasis necessary for sperm maturation. May have a role in secretory functions since seminal vesicle epithelial cells are assumed to secrete proteins involved in decapacitation by modifying surface proteins to facilitate the acquisition of the ability to fertilize the egg.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224734