

## Product datasheet for **RC234419**

### SLC19A1 (NM\_001205207) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC19A1 (NM_001205207) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC19A1
Synonyms:	CHMD; FOLT; hRFC; hSLC19A1; IFC-1; IFC1; MEGAF; REFC; RFC; RFC1; RFT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234419 representing NM\_001205207  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGAAGAGGAAATGAGGCATGCTCCATTATTTCGGAGG  
 TCACGAACGAGATCACGCCGGTGTCTGCTACTCCTACCTGCGCGTGTGGTGCCTGTTCCTGCTCAC  
 CGACTACCTGCGCTACACGCCGGTGTCTGCTGCTCAGGGGCTCAGCTTCGTGTCGGTGTGGCTGCTGCTG  
 CTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTTTCTACAGCGTACCATGGCCGCGCGCA  
 TCGCCTATTCTCCTACATCTTCTCTCTCGTGGCGCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG  
 CGCTGCGGTGCTGCTGGCGTGTTCACCAGCTCCGTGCTGGGCCAGTGTGGTCACTGTGGCCGAGTC  
 TCCTTCTCCACGCTCAACTACATCTCGCTGGCCTTCTCACCTTCAGCGTGGTCCCTCGCCCTTCTCTGA  
 AGCGCCCCAAGCGCAGCCTTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCT  
 GGAGCGCATGAATCCTGGCCAGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGACTCAGTG  
 CTGGCGCGGATGCTGCGGGAGCTGGGGGACAGCCTGCGGCGGCCGAGCTGCGCCTGTGGTCCCTCTGGT  
 GGGTCTTCAACTCGGCCGGCTACTACCTGGTGGTCTACTACGTGCACATCCTGTGGAACGAGGTGGACCC  
 CACCACCAACAGTGCAGCGGTCTACAACGGCGCGGAGATGCTGCCTCCACGCTGCTGGCGCCATCACG  
 TCCTTCGCGCGGGCTTCGTGAAGATCCGCTGGGCGCGCTGGTCCAAGCTGCTCATCGCGGGCGTACCGG  
 CCACGCAGGCGGGGCTGGTCTTCTTCTGGCGCACACGCCACCCGAGCAGCATCTGGCTGTGCTATGC  
 GGCCTTCGTGCTGTTCCGCGGCTCCTACCAGTTCCTCGTGCCATCGCCACCTTTCAGATTGCATCTTCT  
 CTGTCTAAAGAGCTCTGTGCCCTGGTCTTCGGGTCAACACGTTCTTGGCACCATCGTCAAGACCATCA  
 TCACTTTTCATTGTCTCGAGCTGCGGGGCTGGCCTCCCGGTCGCAAGCAGTTCAGTTATACTCCGT  
 GTACTTCTGATCCTGTCCATCATCTACTTCTTGGGGCCATGCTGGATGGCTGCGGCACTGCCAGCGG  
 GGCCACCACCCGCGCAGCCCCGGCCAGGGCTGAGGAGTGCCGCGGAGGAGAAGGCAGCACAGGCAC  
 TGAGCGTGCAGGACAAGGGCTCGGAGGCTGCAGCCAGCCAGAGCCCGCGCTTCCCAAGAAGACAG  
 CCTGGGGGCTGTGGGGCCAGCCTCCCTGGAGCAGAGACAGAGCGACCCATACCTGGCCAGGCCCGGCC  
 CCGCAGGCAGCTGAATTCCTGAGCCAGTGACAACCCCTTCCCTGCACTCTGTGCTCCGCCAAGCCT  
 CAGGCCCTGAGGCTGCAGATGAGACTTGTCCCGAGCTGGCTGTCCATCCTCTGGTGTGAGCAAGCTGG  
 TTTGAGTGTCTCAAGCGACGGTGTTCAGAATGTGAACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234419 representing NM\_001205207  
 Red=Cloning site Green=Tags(s)

MRPQPAEPAPGGRGNEACSIHSEVTNEITPVLSYSYLAVLVPVFLLDYLRYPVLLQGLSFVSVWLLL  
 LLGHSAVHMQLMELFYSVTMAARIAYSYIFSLVRPARYQRVAGYSRAAVLLGVFTSSVLGQLLVTVGRV  
 SFSTLNYISLAFITFSVVLALFLKRPKRSLFFNRDDRGRCECTASERLERNPMPGGKLGHALRVACGDSV  
 LARMLRELGDLSRRPQLRLWSLWWFNSAGYYLVVYVHILWNEVDPTTNSARVYNGAADAASLLGAIT  
 SFAAGFVKIRWARWSKLLIAGVTATQAGLVFLLAHTRHPSSIWL CYAAFVLFGRSYQFLVPIATFQIASS  
 LSKELCALVFGVNTFFATIVKTIITFIVSDVRGLGLPVRKQFQLYSVYFLILSIIYFLGAML DGLRHCQR  
 GHHPRPQPAQGLRSAAEEKAAQALSVQDKLGGLPQAQSPPLSPEDSLGAVGPASLEQRQSDPYLAQAPA  
 PQAAEFLSPVTTSPCTLCSAQAASGPEAADETCPLAVHPPGVSKLGLQCLPSDGVQNVNQ

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_001205207

ORF Size: 1653 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.

RefSeq: [NM\\_001205207.3](#)

RefSeq Size: 2622 bp

RefSeq ORF: 1656 bp

Locus ID: 6573

UniProt ID: [P41440](#)

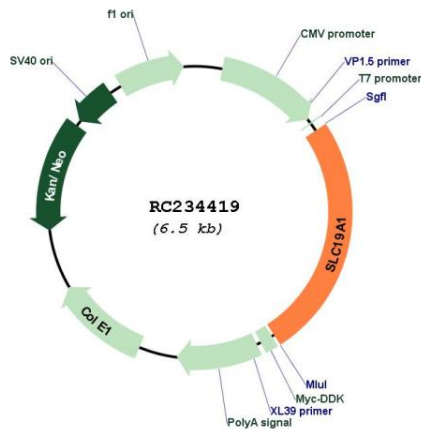
**Cytogenetics:** 21q22.3

**Protein Families:** Stem cell - Pluripotency, Transmembrane

**MW:** 60.5 kDa

**Gene Summary:** The membrane protein encoded by this gene is a transporter of folate and is involved in the regulation of intracellular concentrations of folate. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]

**Product images:**



Circular map for RC234419