

## Product datasheet for **RG234419**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC19A1 (NM_001205207) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC19A1
Synonyms:	CHMD; FOLT; hRFC; hSLC19A1; IFC-1; IFC1; MEGAF; REFC; RFC; RFC1; RFT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234419 representing NM\_001205207  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGAAGAGGAAATGAGGCATGCTCCATTATTTCGGAGG  
 TCACGAACGAGATCACGCCGGTGTCTGCTACTCCTACCTGCCCCGTGCTGGTGCCCGTGTTCCTGCTCAC  
 CGACTACCTGCGCTACACGCCGGTGTCTGCTGCTCAGGGGCTCAGCTTCGTGTCGGTGTGGCTGCTGCTG  
 CTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTTTCTACAGCGTACCATGGCCGCGCGCA  
 TCGCCTATTCTCCTACATCTTCTCTCTCGTGGGCCCGCGCTACCAGCGTGTGGCCGGCTACTCGCG  
 CGCTGCGGTGCTGCTGGCGTGTTCACCAGCTCCGTGCTGGGCCAGTGTGGTCACTGTGGCCGAGTC  
 TCCTTCTCCACGCTCACTACATCTCGCTGGCCTTCTCACCTTCAGCGTGGTCCCGCCTCTTCTGA  
 AGCGCCCCAAGCGCAGCCTTTCTTCAACCGGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCT  
 GGAGCGCATGAATCCTGGCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGGACTCAGTG  
 CTGGCGCGGATGCTGCGGGAGCTGGGGGACAGCCTGCGGGCGGCCAGCTGCGCCTGTGGTCCCTCTGGT  
 GGGTCTTCAACTCGGCCGGCTACTACCTGGTGGTCTACTACGTGCACATCCTGTGGAACGAGGTGGACCC  
 CACCACCAACAGTGCAGGGTCTACAACGGCGCGGAGATGCTGCCTCCACGCTGCTGGCGCCATCACG  
 TCCTTCGCGCGGGCTTCGTGAAGATCCGCTGGGCGCGCTGGTCCAAGCTGCTCATCGCGGGCGTCACGG  
 CCACGCAGGCGGGGCTGGTCTTCTTCTGGCGCACACGCCACCCGAGCAGCATCTGGCTGTGCTATGC  
 GGCCTTCGTGCTGTTCCGCGGCTCCTACCAGTTCCTCGTGCCATCGCCACCTTTCAGATTGCATCTTCT  
 CTGTCTAAAGAGCTCTGTGCCCTGGTCTTCGGGTCAACACGTTCTTGGCACCATCGTCAAGACCATCA  
 TCACTTTTATTGTCTCGAGCTGCGGGGCTGGCCTCCCGTCCGCAAGCAGTTCAGTATACTCCGT  
 GTACTTCCTGATCCTGTCCATCATCTACTTCTTGGGGGCAATGCTGGATGGCTGCGGCACTGCCAGCGG  
 GGCCACCACCCGCGCAGCCCCGGCCAGGGCTGAGGAGTGCCGCGGAGGAGAAGGCAGCACAGGCAC  
 TGAGCGTGCAGGACAAGGGCTCGGAGGCTGCAGCCAGCCAGAGCCCGCGCTTCCCCAGAAGACAG  
 CCTGGGGGCTGTGGGGCCAGCCTCCCTGGAGCAGAGACAGAGCGACCCATACCTGGCCAGGCCCGGCC  
 CCGCAGGCAGCTGAATTCCTGAGCCAGTGACAACCCCTTCCCTGCACTCTGTGCTCCGCCAAAGCCT  
 CAGGCCCTGAGGCTGCAGATGAGACTTGTCCCGAGCTGGCTGTCCATCCTCCTGGTGTGAGCAAGCTGGG  
 TTTGAGTGTCTCAAGCGACGGTGTTCAGAATGTGAACCAAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234419 representing NM\_001205207  
 Red=Cloning site Green=Tags(s)

MRPQPAEPAPGGRGNEACSIHSEVTNEITPVLSYSLAVLVPVFLLDYLYRTPVLLLQGLSFVSVWLLL  
 LLGH5VAHMLMELFY5VTMAARIA5SSYIFSLVRPARYQRVAGYSRAAVLLGVFTSSVLGQLLVTVGRV  
 SFSTLNYISLAF5LTF5SVLALFLKRPKRSLFFNRDDRGRCE5T5ASELERMNP5GPGKLGHALRVACGDSV  
 LARMLRELGD5LRRPQLRLW5LWVFN5SAGYYLV5VYVHILWNEVDPTTNSARVYNGAADA5TLLGAIT  
 SFAAG5FVKIRWAR5SKLLIAGVTATQAGLV5FLLAHTRHP5SIWLCYAAF5VLF5RGSYQFLVPIAT5FQIASS  
 LSKELCALV5FVNTFFATIVKTIIT5FIVSDVRGLGLPVRKQ5FQLYSVYFLILSIIY5FLGAML5DGLRHCQR  
 GH5HPRQ5PAQGLRSAA5EEKAAQALSVQDK5LGG5LQPAQ5PPLSPED5SLGAVGPAS5LEQRQ5SDPYLAQAPA  
 PQA5AEFLSPV5TTPSPCTLCSA5QASGPEAA5DETC5PQLAV5HPP5G5SKLGLQCL5PSD5GVQ5NVNQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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

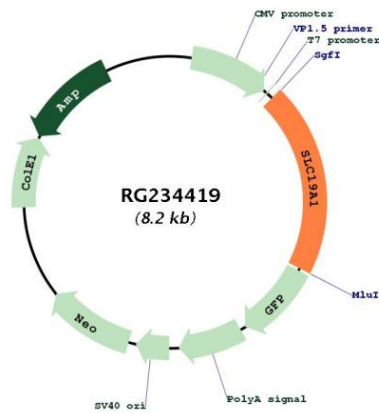
**UniProt ID:** [P41440](#)

**Cytogenetics:** 21q22.3

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

**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 RG234419