

## Product datasheet for **SC304874**

### SLC7A14 (NM\_020949) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A14 (NM_020949) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC7A14
Synonyms:	PPP1R142
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



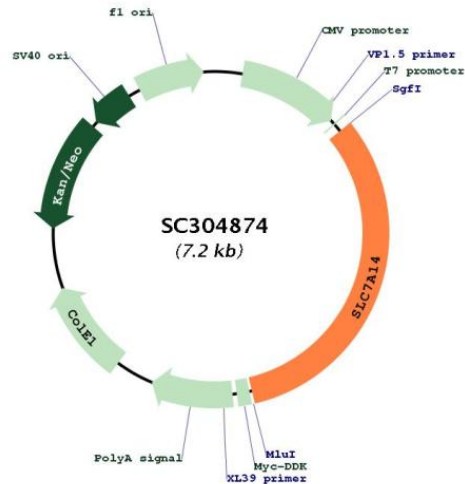
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**Fully Sequenced ORF:** >SC304874 representing NM\_020949.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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GGCATGTATGTGGTCTCTGGCCTGGTGGCAAGGAAATGGCAGGACCTGGTGTATTGTGTCTTATC
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```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_020949

**Insert Size:** 2316 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_020949.2](#)

**RefSeq Size:** 10133 bp

**RefSeq ORF:** 2316 bp

**Locus ID:** 57709

**UniProt ID:** [Q8TBB6](#)

**Cytogenetics:** 3q26.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 84.1 kDa

**Gene Summary:** This gene is predicted to encode a glycosylated, cationic amino acid transporter protein with 14 transmembrane domains. This gene is primarily expressed in skin fibroblasts, neural tissue, and primary endothelial cells and its protein is predicted to mediate lysosomal uptake of cationic amino acids. Mutations in this gene are associated with autosomal recessive retinitis pigmentosa. In mice, this gene is expressed in the photoreceptor layer of the retina where its expression increases over the course of retinal development and persists in the mature retina. [provided by RefSeq, Apr 2014]