

## Product datasheet for **RG214242**

### SLC30A2 (NM\_001004434) Human Tagged ORF Clone

#### Product data:

|                                  |                            |
|----------------------------------|----------------------------|
| <b>Product Type:</b>             | Expression Plasmids        |
| <b>Tag:</b>                      | TurboGFP                   |
| <b>Symbol:</b>                   | SLC30A2                    |
| <b>Synonyms:</b>                 | PP12488; TNZD; ZnT-2; ZNT2 |
| <b>Mammalian Cell Selection:</b> | Neomycin                   |
| <b>Vector:</b>                   | pCMV6-AC-GFP (PS100010)    |
| <b>E. coli Selection:</b>        | Ampicillin (100 ug/mL)     |

**ORF Nucleotide Sequence:** >RG214242 representing NM\_001004434  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGGCCAAGGAGAAGCAGCATCTGTTGGACGCCAGGCCGGAATCCGGTCATACACGGGATCTCTGT  
GGCAGGAAGGGGCTGGCTGGATTCCCTCTGCCCCGACCTGGCCTGGACTTGACAGGCCATTGAGCTGGCTGC  
CCAGAGCAACCATCACTGCCATGCTCAGAAGGGTCCTGACAGTCACTGTGACCCCAAGAAGGGGAAGGCC  
CAGCGCCAGCTGTATGTAGCCTCTGCCATCTGCCTGTTGTTTCATGATCGGAGAAGTCGTTGGTGGGTACC  
TGGCACACAGCTTGGCTGTCATGACTGACGACGACACCTGCTCACTGACTTTGCCAGCATGCTCATCAG  
CCTCTTCTCCCTCTGGATGTCTCCCGGCCAGCCACCAAGACCATGAACTTTGGCTGGCAGAGAGCTGAG  
ATCTTGGGAGCCCTGGTCTCTGACTGTCCATCTGGGTCGTGACGGGGTACTGGTGTACCTGGCTGTGG  
AGCGGCTGATCTCTGGGACTATGAAATTGACGGGGGACCATGCTGATCACGTCGGGCTGCGCTGTGGC  
TGTGAACATCATAATGGGGTTGACCCCTCACCAGTCTGGCCATGGGCACAGCCACGGCACCACCAACCAG  
CAGGAGGAGAACCCAGCGTCCGAGCTGCCTTCATCCATGTGATCGGCGACTTTATGCAGAGCATGGGTG  
TCCTAGTGGCAGCCTATATTTATACTTCAAGCCAGAATAACAAGTATGTAGACCCCATCTGCACCTTCGT  
CTTCTCCATCCTGGTCTCTGGGACAACCTTGACCATCTGAGAGATGTGATCCTGGTGTGATGGAAGGG  
ACCCCAAGGGCGTTGACTTACAGCTGTTCTGTGATCTGCTGCTGTCGGTGGAGGGGGTAGAAGCCCTGC  
ACAGCCTGCATATCTGGCACTGACGGTGGCCAGCCTGTTCTGTCTGTCCACATCGCCATTGCTCAGAA  
TACAGACGCCAGGCTGTGCTGAAGACAGCCAGCAGCCGCTCCAAGGGAAGTCCACTTCCACACCGTG  
ACCATCCAGATCGAGGACTACTCGGAGGACATGAAGGACTGTCAGGCATGCCAGGGCCCTCAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



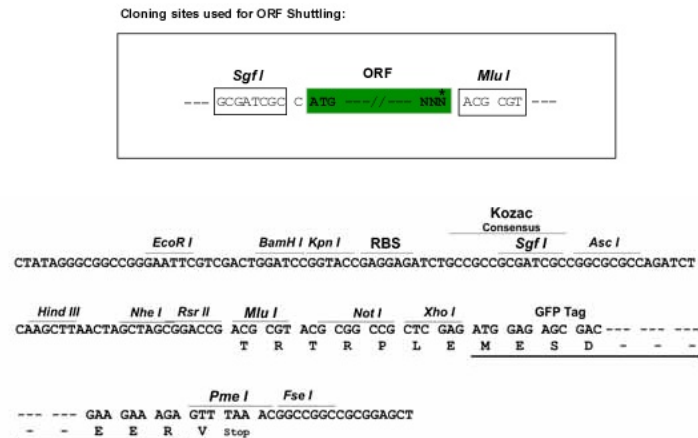
**Protein Sequence:** >RG214242 representing NM\_001004434  
 Red=Cloning site Green=Tags(s)

MEAKEKQHLLDARPAIRSYTGSLSWQEGAGWIPLPRGLDLQAIELAAQSNHHCHAQKGPDSHCDPKKGKA  
 QRQLYVASAICLLFMIGEIVGGYLAHSLAVMTDAHLLTDFASMLISLFLWSSRPATKTMNFGWQRAE  
 ILGALVSVLSIWVVTGVLVYLAVERLISGDYEIDGGTMLITSGCAVAVNIIMGLTLHQSGHGHSHGTTNQ  
 QEENPSVRAAFIHVIGDFMQSMGVLVAAYILYFKPEYKYVDPICTFVFSILVLGTTLTILRDVILVLMG  
 TPKGVDFTAVRDLLLSVEGVEALHSLHIWALTVAQPVLVSVHIAIAQNNTDAQAVLKTASSRLQGKFHFHTV  
 TIQIEDYSEDMKDCQACQGPSD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001004434

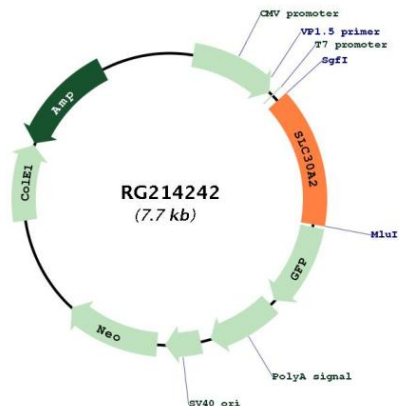
**ORF Size:** 1116 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_001004434.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 2473 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1119 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 7780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <a href="#">Q9BRI3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 1p36.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Summary:</b>          | The protein encoded by this gene is a zinc transporter that acts as a homodimer. The encoded protein plays a role in secreting zinc into breast milk. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]                                                                                                                                                                                                                                                 |

Product images:



Circular map for RG214242