

## Product datasheet for **RG230328**

### SLC34A3 (NM\_001177316) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC34A3 (NM_001177316) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC34A3
Synonyms:	HHRH; NPTIic
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230328 representing NM\_001177316  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAGTTCCTTCCCGGCAGCCAGGTCCCCACCCACTCTGGACGCGGTTGACCTAGTGAAAAGA  
 CTCTGAGGAATGAAGGGACCTCCAGTCTGCTCCAGTCTTGAGGAAGGGGACACAGACCCCTGGACCC  
 CCCTCAGCTGAAGGACACAAGCCAGCCCTGAAAGAGCTCCGCGTGGCCGGCAGGCTGCGCCGCTGGCC  
 GGCAGCGTCTCAAGGCCTGCGGGCTCCTCGGCAGCCTGTACTTCTTCTGCTCTCTGGACGCTCTCA  
 GCTCCGCCTTCCAGTCTGGGAGCAAAGTGGCCGGAGACATCTTCAAGGACAACGTGGTGTGTCCAA  
 CCCTGTGGCTGGACTGGTATTGGCGTGTGGTACAGCCCTGGTGCAGAGTTCAGCACGTCTCTCTCC  
 ATCGTGGTCAAGTGGTGTGTAAGTGTGCTGACTGTCCGGGTGTCTGTGCCATCATCATGGGTGTCA  
 ACGTAGGCACATCCATCACCAGCACCCCTGGTCTCAATGGCGCAGTCAGGGGACCGGGATGAATTTCAAG  
 GGCTTTCAGCGGCTCGGCGGTGCACGGGATCTTCAACTGGCTCACAGTGTGGTCTGCTGCCACTGGAG  
 AGCGCCACGGCCCTGCTGGAGAGGCTAAGTGAGCTAGCCCTGGGTGCCGCCAGCCTGACACCCAGGGCGC  
 AGGCGCCCGACATCCTCAAGGTGCTGACGAAGCCGCTCACACACCTCATCGTGCAGTTGGACTCCGACAT  
 GATCATGAGCAGTGCCACAGGCAACGCCACTAACAGCAGTCTCATTAAAGCACTGGTGCAGCACACGGGG  
 CAGCCGACCCAGGAGAACAGCAGCTGTGGCGCCTTCGGCCCGTGCACAGAGAAGAACAGCACAGCCCGG  
 CGGACAGGCTGCCCTGCCGCCACTGTTTGGCGGCAGGAGCTCACGGACCTGGCCGTGGGCTGCATCCT  
 GCTGGCCGGTCCCTGCTGGTGTCTGCGGCTGCCTGGTCTCATAGTCAAGTGTCTCAACTCTGTGCTG  
 CGCGCCCGCTGGCCAGGTCGTGAGGACAGTCATCAATGCGGACTTCCCCTTCCCGTGGGCTGGCTCG  
 GCGGCTACCTGGCCGCTCCTCGCGGGCAGGCTGACCTTCGCACTGCAGAGCAGCAGCAGCTTCCAGCGC  
 GGCCGTCGTGCCCTCATGGGGTTCGGGGTGTAGTCTGGACCGGGCGTACCCCTCTTACTGGGCTCC  
 AACATCGCACCACTACCACAGCCCTGCTGGTGCCTGGCCAGCCCGCAGACAGGATGCTCAGCGCC  
 TGCAGGTGCCTCATCCACTTCTTCTCAACCTGGCCGGCATCCTGCTGTGGTACCTGGTGCCTGCACT  
 GCGGCTGCCCATCCCGTGGCCAGGCACTTCGGGGTGGTACCGCCCGTACCCTGGGTGGTGGGCTG  
 TACCTGCTGCTCGGATCCTGCTGCTGCCCTGGCGCCTTCGGGCTCTCCCTGGCAGGGGGCATGGTGC  
 TGGCCGCTGTGGGGTCCCCTGGTGGGCTGGTGTCTCCTCGTATCCTGGTACTGTCTGCAGCGGGC  
 CCGGCCGCTGGTGCCTGTCCGCTGCGCTCCTGGGCTGGTCCCCGTCTGGTCCATTCTCTGGAG  
 CCCTGGGACCGCTGGTACCCGCTGCTGCCCTGCAACGTCTGCAGCCCCCGAAGGCCACCACCAAG  
 AGGCCTACTGCTACGAGAACCCTGAGATCTTGGCCTCCAGCAGTTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230328 representing NM\_001177316  
 Red=Cloning site Green=Tags(s)

MPSSLPGSQVPHPTLDAVDLVEKTLRNEGTSSSAPVLEEGLDTPWTLPQLKDTSPWKELRVAGRLRRVA  
 GSVLKACGLLGSLYFFICSLDLVSSAFQLLGSKVAGDIFKDNVLSNPVAGLVIGVLVLTALVQSSSTSS  
 IVVSMVAAKLLTVRVSVPIIMGVNVGTSITSTLVSMASGDRDEFQRAFSGSAVHGIIFNWLTVLVLLPLE  
 SATALLERLSELALGAASLTTPRAQPDILKVLTKPLTHLIVQLSDMIMSSATGNATNSSLIKHWCGTTG  
 QPTQENSSCGAFGPCTEKNSTAPADRLPCRHLFAGTELTDLAVGCILLAGSLLVLCGCLVLIVKLLNSVL  
 RGRVAQVVRTVINADFPFPLGWLGGYLAVLAGAGLTFALQSSSVFTAADVPLMGVGVISLDRAYPLLLGS  
 NIGTTTTALLAALASPADRMLSALQVALIHFFFNLAGILLWYLPALRLPIPLARHFGVVTARYRWVAGV  
 YLLLGLLLLPLAAFGLSLAGMVLAAVGGPLVGLVLLVILVTVLQRRRPAWLPVRLRSWAWLPVWLHSL  
 PWDRLVTRCCPCNVCSPPKATTKAYCYENPEILASQQL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>RefSeq:</b>	<p><a href="#">NM_001177316.1</a>, <a href="#">NP_001170787.1</a></p>
<b>RefSeq Size:</b>	<p>2177 bp</p>
<b>RefSeq ORF:</b>	<p>1800 bp</p>
<b>Locus ID:</b>	<p>142680</p>
<b>UniProt ID:</b>	<p><a href="#">Q8N130</a></p>
<b>Cytogenetics:</b>	<p>9q34.3</p>
<b>Protein Families:</b>	<p>Transmembrane</p>
<b>Gene Summary:</b>	<p>This gene encodes a member of SLC34A transporter family of proteins, and is expressed primarily in the kidney. It is involved in transporting phosphate into cells via sodium cotransport in the renal brush border membrane, and contributes to the maintenance of inorganic phosphate concentration in the kidney. Mutations in this gene are associated with hereditary hypophosphatemic rickets with hypercalciuria. Alternatively spliced transcript variants varying in the 5' UTR have been found for this gene.[provided by RefSeq, Apr 2010]</p>