

## Product datasheet for **RG230329**

### SLC34A3 (NM\_001177317) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC34A3 (NM_001177317) 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:**

>RG230329 representing NM\_001177317  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAGTTCCTTCCCGGCAGCCAGGTCCTCCACCCCACTCTGGACGCGGTTGACCTAGTGAAAAGA  
 CTCTGAGGAATGAAGGGACCTCCAGTCTGCTCCAGTCTTGAGGAAGGGGACACAGACCCCTGGACCC  
 CCCTCAGCTGAAGGACACAAGCCAGCCCTGAAAAGAGCTCCGCGTGGCCGGCAGGCTGCGCCGCTGGCC  
 GGCAGCGTCTCAAGGCCTGCGGGCTCCTCGGCAGCCTGTACTTCTTCTCATCTGCTCTCTGGACGCTCTCA  
 GCTCCGCCTTCCAGTCTGTTGGCAGCAAAGTGGCCGGAGACATCTTCAAGGACAACGTGGTGTGTCCAA  
 CCCTGTGGCTGGACTGGTCAATTGGCGTGTGGTACAGCCCTGGTGCAGAGTTCAGCACGTCTCTCTCC  
 ATCGTGGTCAAGTGGTGTGTAAGTGTGCTGACTGTCCGGGTGTCTGTGCCATCATCATGGGTGTCA  
 ACGTAGGCACATCCATCACCAGCACCCCTGGTCTCAATGGCGCAGTCAGGGGACCGGGATGAATTTACAGAG  
 GGCTTTACAGCGGCTCGGCGGTGCACGGGATCTTCAACTGGCTCACAGTGTGGTCTGCTGCCACTGGAG  
 AGCGCCACGGCCCTGCTGGAGAGGCTAAGTGAGCTAGCCCTGGGTGCCGCCAGCCTGACACCCAGGGCGC  
 AGGCGCCCGACATCCTCAAGGTGCTGACGAAGCCGCTCACACACCTCATCGTGCAGTTGGACTCCGACAT  
 GATCATGAGCAGTGCCACAGGCAACGCCACTAACAGCAGTCTCATTAAAGCACTGGTGCAGCACACGGGG  
 CAGCCGACCCAGGAGAACAGCAGCTGTGGCGCCTTCGGCCCGTGCACAGAGAAGAACAGCACAGCCCGG  
 CGGACAGGCTGCCCTGCCGCCACTGTTTGGCGGCAGGAGCTCACGGACCTGGCCGTGGGCTGCATCCT  
 GCTGGCCGGTCCCTGCTGGTGTCTGCGGCTGCCTGGTCTCATAGTCAAGTGTCTCAACTCTGTGCTG  
 CGCGCCCGCTGGCCAGGTCGTGAGGACAGTCAATGCGGACTTCCCCTTCCCGTGGGCTGGCTCG  
 GCGGCTACCTGGCCGCTCCTCGCGGCGCCGGCCTGACCTTCGCACTGCAGAGCAGCAGGCTTTCACGCG  
 GGCCGTGCTGCCCTCATGGGGTGTGGGGTGTAGTCTGGACCGGGCGTACCCCTCTTACTGGGCTCC  
 AACATCGCACCACTACCACAGCCCTGCTGGTGCCTGGCCAGCCCGCAGACAGGATGCTCAGCGCC  
 TGCAGGTGCCTCATCCACTTCTTCTCAACCTGGCCGGCATCCTGCTGTGGTACCTGGTGCCTGCACT  
 GCGGCTGCCCATCCCGTGGCCAGGCACTTCGGGGTGGTACCGCCCGTACCCTGGGTGGTGGGCTG  
 TACCTGCTGCTCGGATCCTGCTGCTGCCCTGGCGCCTTCGGGCTCTCCCTGGCAGGGGGCATGGTGC  
 TGGCCGCTGTGGGGTCCCCTGGTGGGCTGGTGTCTCCTCGTATCCTGGTACTGTCTGCAGCGGG  
 CCGGCCGGCTGGTGCCTGTCCGCTGCGCTCCTGGGCTGGTCCCCGTCTGGTCCATTCTCTGGAG  
 CCCTGGGACCGCTGGTACCCGCTGCTGCCCTGCAACGTCTGCAGCCCCCGAAGGCCACCACCAAG  
 AGCCCTACTGCTACGAGAACCCTGAGATCTTGGCCTCCAGCAGTTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230329 representing NM\_001177317  
 Red=Cloning site Green=Tags(s)

MPSSLPGSQVPHPTLDAVDLVEKTLRNEGTSSSAPVLEEGLDTPWTLPQLKDTSQPWKELRVAGRLRRVA  
 GSVLKACGLLGSLYFFICSLDLVSSAFQLLGSKVAGDIFKDNVLSNPVAGLVIGVLVLTALVQSSSTSS  
 IVVSMVAAKLLTVRVSVPIIMGVNVGTSITSTLVSMAQSGDRDEFQRAFSGSAVHGFNWLTVLVLLPLE  
 SATALLERLSELALGAASLTTPRAQPDILKVLTKPLTHLIVQLSDMIMSSATGNATNSSLIKHWCGTTG  
 QPTQENSSCGAFGPCTEKNSTAPADRLPCRHLFAGTELTDLAVGCILLAGSLLVLCGLVLIVKLLNSVL  
 RGRVAQVVRTVINADFPFPLGWLGGYLAVLAGAGLTFALQSSSVFTAADVPLMGVGVISLDRAYPLLLGS  
 NIGTTTTALLAALASPADRMLSALQVALIHFFFNLAGILLWYLPALRLPIPLARHFGVVTARYRWVAGV  
 YLLLGLLLLPLAAFGLSLAGMVLAAVGGPLVGLVLLVILVTVLQRRRPAWLPVRLRSWAWLPVWLHSL  
 PWDRLVTRCCPCNVCSPPKATTKEAYCENPEILASQQL

**TRTRPLE** – GFP Tag – V

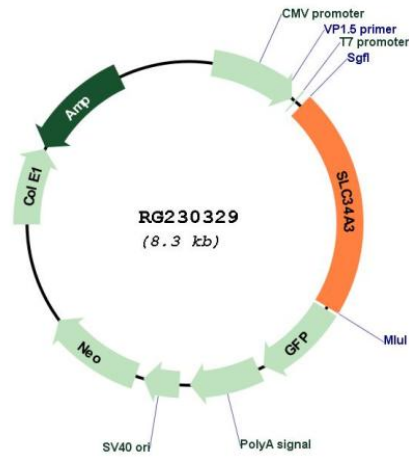
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001177317

ORF Size: 1797 bp

<b>OTI Disclaimer:</b>	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>
<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>RefSeq:</b>	<a href="#">NM_001177317.1</a> , <a href="#">NP_001170788.1</a>
<b>RefSeq Size:</b>	2180 bp
<b>RefSeq ORF:</b>	1800 bp
<b>Locus ID:</b>	142680
<b>UniProt ID:</b>	<a href="#">Q8N130</a>
<b>Cytogenetics:</b>	9q34.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]