

## Product datasheet for **RG223288**

### SLC24A5 (NM\_205850) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC24A5 (NM_205850) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC24A5
Synonyms:	JSX; NCKX5; OCA6; SHEP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223288 representing NM\_205850  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGACAAAAGGGGGCAAACATGGGCGAGAAGGGCTCTGTTGCTCGGCATCCTGTGGGCCACTGCAC  
 ATCTGCCTCTCTAGGGACCTCCCTGCCCAACGTCTCCAAGGGCCACAGGAAATAGCACCCAATGTGT  
 TATTTCTCCATCATCGGAGTTTCCCGAAGGGTTTTTACGAGACAGGAGCGCAGAGATGGAGGCATCATA  
 ATCTATTTCTAATTATCGTTTACATGTTTCATGGCCATATCTATTGTCTGTGATGAATACTTCTACCCCT  
 CCCTGGAAATCATCAGTGAATCCCTTGGATTGTCTCAGGATGTTGCAGGCACAACTTTCATGGCAGCGGG  
 CAGTTCAGCTCCTGAATTAGTTACTGCTTTCCTAGGTGATTTATCACAAGGGAGATATTGGCATTAGC  
 ACCATCCTTGGATCTGCAATTTAATCTCCTTGGCATCTGTGCTGCCTGTGTTTGTCTATAACGG  
 TCTCAACTATCATGTTGGCCCTATTCAGAGACTGTGCAGCGTACACAATTAGTCAGCAGCAGTTCT  
 TGGTATAATATATGACAACCAAGTTTACTGGTATGAAGGGGCTTACTGCTTTTGTATATAGGATTGTAT  
 GTTTTGGTGTGTTTTGACATTAATAAATAACCAATATATTATAAAGAAATGCAGTCCTTGTGCGCCT  
 GTCTTGCCAAAGCTATGGAGAGAAGTGAACAACAGCCACTGATGGGCTGGGAAGATGAAGGTCAACCATT  
 CATTCTGTCGGCAATCAAGAACTGATAGTGAATATTTTATGAAGATTCTGGCTACTCTCAGCTCTCTATA  
 AGTTTACATGGCCTTAGTCAGGTTTCTGAAGATCCACCAAGTGTTCACACATGCCTGAAGCAGACTTAA  
 AAAGAATTTTTGGGTATTATCCCTTCTATTATTACATTACTTTTTCTAACCACACCAGATTGTAGAAA  
 AAAGTTTTGGAAAACTACTTTGTGATAACCTTTTTCATGTCTGCAATATGGATATCCGCATTTACATAT  
 ATCCTGGTTTGGATGGTCAATAACTGGGAAACACTAGAAATCCCGATACAGTAATGGGCCTTACTT  
 TATTAGCAGCAGGAACAAGCATACCAGACACAATTGCAAGTGTGTTGGTTGCAAGAAAAGGGAAAGGAGA  
 TATGGCTATGTCTAACATCGTGGGATCCAATGTGTTGATATGTTGTGCCTTGGTATTCCATGGTTTATT  
 AAAACTGCATTTATAAATGGATCAGCTCCTGCAGAAGTAAACAGCAGAGGACTAACTTACATAACCATCT  
 CTCTCAACATTTCAATTATTTTTCTTTTTTAGCAGTTCACTTCAATGGCTGAAACTAGACAGAAAAGTT  
 GGGAAATAGTCTGCCTATTATCACTTGGGGCTTGTACATTATCAGTTCTATATGAACTTGAATTATT  
 GGAAATAATAAAATAAGGGGCTGTGGAGGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG223288 representing NM\_205850  
 Red=Cloning site Green=Tags(s)

MQTKGGQTWARRALLLILWATAHLPLSGTSLPQRLPRATGNSTQCVISPSSEFPEGFFTRQERRDGGII  
 IYFLIIVYMFMAISIVCDEYFLPSLEIISLGLSQDVAGTTFMAAGSSAPELVTAFLGVFITKGDIGIS  
 TILGSAIYNLLGICAAACGLL SNTVSTLSCWPLFRDCAAYTISAAAVLGIYDNQVYWYEGALLLLIYGLY  
 VLVLCFDIKINQYIIKKCSPCCACLAKAMERSEQQPLMGWEDEGQPFIRRQSRDTSGIFYEDSGYSLSI  
 SLHGLSQVSEDPSPVFNMPPEADLKRIFWVLSLPIITLLFLTTPDCRKKFWKNYFVITFFMSAIWISAFY  
 ILVWMTITGETLEIPDVMGLLLAAGTSIPDTIASVLVARKGKGMAMSNIVGSNVFDMCLGIPWFI  
 KTAFIGNSAPAEVNSRGLTYITISLNIISIFLFLAVHFNWKLDRKLGIVCLLSYGLATLSVLYELGII  
 GNNKIRGCGG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_205850

ORF Size: 1500 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\\_205850.3](#)

RefSeq Size: 1617 bp

RefSeq ORF: 1503 bp

Locus ID: 283652

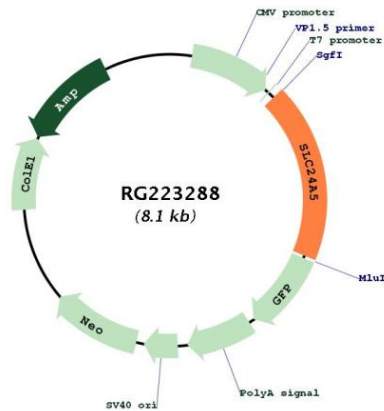
UniProt ID: [Q71RS6](#)

Cytogenetics: 15q21.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene is a member of the potassium-dependent sodium/calcium exchanger family and encodes an intracellular membrane protein with 2 large hydrophilic loops and 2 sets of multiple transmembrane-spanning segments. Sequence variation in this gene has been associated with differences in skin pigmentation. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG223288