

Product datasheet for **MG220066**

Slc14a2 (NM_030683) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_030683) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc14a2
Synonyms:	UT-A1; UT-A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG220066 representing NM_030683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGACCACCACCCCTGAAGGAGATGTCTGACAGCAACAGCAGCCCTCTCTTGCCAGAGCCTCTTT
 CCAGCAGATACAAATTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCCAGGATACACA
 CCCAGCCCTTCCCCTGCTGGAAATGCCGAAGAAAAGGATCTCCGCTCATCAGATGAAGACAGCCACATA
 GTGAAGATTGAAAAACCAATGAGAGGAATAAAAGGAGAGAAAGTGAGGTGTCCCGCCGGGCTTCTGCGG
 GCCGGGGAGGCTTCAAGCCTTCCAAGCCGTGAGCTATCTCACTGGCGACATGAAGGAATGCAAGAACTG
 GCTGAAAGATAAGCCCTGGTCTACAGTTCCTAGACTGGGTCTTGGGGAGCAGCTCAGGTGATGTTT
 GTCAACAACCCCATAGTGGCTCATCATCTTCATAGGGCTCCTAATCCAGAATCCCTGGTGACGATTG
 CTGGGACACTGGGACAGTGGCTTCAACCTTGGCTGCCCTTGCCTTAAGCCAGGACAGGTGAGCCATCGC
 CTCCGGACTCCATGGCTACAACGGGATGCTGGTGGGACTGCTGATGGCTGTCTTCTCGGAGAAGTTAGAC
 TACTACTGGTGGCTTCTGTTTCCTGTGACCTTCATCCATGGCCTGCCCATATTCTAGTGCCTTGA
 GTACCATCTTCGCCAAGTGGGACCTGCCCGTCTTCACACTGCCCTTCAACATTGCCTTAACACTGTACCT
 GGCAGTACGGGCCACTACAACCTTTTCTTCCCACCACGCTCATCAAGCCTGCGTCTGCAGCTCCCAAT
 ATCACCTGGACAGAGATTGAAATGCCTTTGCTGTTACAAACCATCCCTGTTGGGGTGGCCAGGTCTACG
 GCTGTGACAACCCCTGGACAGGTGGCATGATCCTGGTGGCTCTGTTTATCTCTCCCACTCATCTGCTT
 ACATGCAGCCATAGGGTCAATCGTGGGGCTGCTAGCAGCATTGACTGTGGCCACTCCCTTTGAGACGATC
 TACCTGGGCCTTTGGAGCTACAACCTGTCTCTCTGCTGATTGCCATTGGCGGCATGTTCTACGCACTCA
 CCTGGCAGACACCTGCTGGCACTTGTCTGTGCCCTGTTCTGTGCATACATGGGAGCTGCCCTCTCCAA
 TACAATGGCAGTGGTGGCGTGCCCTCAGGCACCTGGGCCTTCTGTCTCTCCACCCTCACCTTCTCTCTC
 CTCACAAGCAACAACACTGGCATCTACAAGCTCCCACTCAGCAAAGTCACCTACCGGAGGCCAACCGCA
 TCTACTTCTGACAGTGAGACGAGTGAAGAGGAGAAGTCCCCAATGGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220066 representing NM_030683
 Red=Cloning site Green=Tags(s)

MSDHHPLKEMSDSNSSPLLPEPLSSRYKLYESELSSPTWSSSQDTHPALPLEMPEEKDLRSSDEDSHI
 VKIEKPNERNKRRESEVSRASAGRGFSLFQAVSYLTGDMKECKNWLKDKPLVLQFLDWVLRGAAQVMF
 VNNPISGLIIFIGLLIQNPWWTIAGTLGTVAATLAALASQDRSAIASGLHGYNGMLVGLLMAVFSEKLD
 YYWLLFPVFTSMACPIISSALSTIFAKWDLPVFTLPFNIALTLAATGHYNLFPPITLIKPAAPN
 ITWTEIEMPLLLQTIPIVGVGVQVYCDNPWTGGMILVALFISSPLICLHAAIGSIVGLLAALTVATPFETI
 YLGLWSYNCVLSCIAIGGMFYALTWQTHLLALVCALFCAYMGAALSNMAYVGVPSGTWAFCLSTLTFLL
 LTSNNTGIYKLPISKVTYPEANRIYFLTIVRRSEEEKSPNGD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_030683

ORF Size: 1383 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030683.3](#), [NP_109608.1](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1386 bp

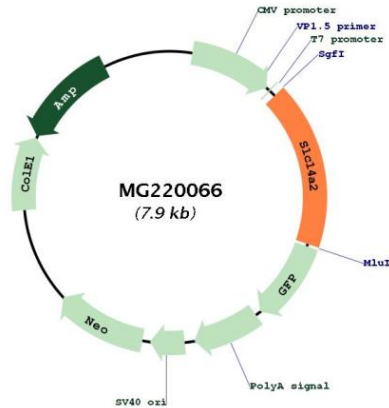
Locus ID: 27411

UniProt ID: [Q8R4T9](#)

Cytogenetics: 18 E3

Gene Summary: Specialized low-affinity vasopressin-regulated urea transporter. Mediates rapid transepithelial urea transport across the inner medullary collecting duct and plays a major role in the urinary concentrating mechanism. Vasopressin regulates urea transport by increasing isoform A1 accumulation in the plasma membrane and/or phosphorylation of isoform A1 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220066