

Product datasheet for **RG203024**

SNX14 (NM_020468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNX14 (NM_020468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNX14
Synonyms:	RGS-PX2; SCAR20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203024 representing NM_020468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGCTGCGACTGGACGTGGGACGCGAGA
 TCTGCCGCCAGTACCCGCTGTTCTGCTTCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTCTTAACAG
 GTATATTCATATTTAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTCACATTCTACTGCTCACTAGGA
 CCTGATTCTCTTACCAAATATATTCTTCACAATAAAATACAAACCAAGCAGTTAGGACTTCAGGAAT
 TATTTCTCAAGGTCATAGCTGTGCTGTTTGGTAAAGTGAAATGTAACGACATAGGCCTTCTTTGCT
 ACTTGAAAACACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCAGAGGTG
 GATATTCCATCTATTATAACCAAGAACTATTAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAG
 CCAGACAGAAAGTAAAAAATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCA
 TGTTGCTTTGAGAAGTGAAGAGATGAATTGCACTATTTAAGGAACTTACTGAAGTCTTTTTCTTAT
 ATTTTGCCTCCTAAAGCAACAGACTGCAGATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTG
 TGTTCTTCTTCTTTGGATTTCTAGCTGATCCAGATACTGTGAATCATTGCTTATCATCTTTCATAGA
 TGACAGTCCACCTGAAAAGCAACTGAACCGGCTTCTCCTTTGGTTCCATTCTTGCGAATAATTTGCAGAA
 CCTAGAAAATAAAAGCCATCTGTGCTGAAGTTAGAATTGAAGCAATCAGAGAGCAACAAGATCTTTTAT
 TTCGTTTTATGAAGTCTTGAACAAGAAGGCGCAGTGCACGTGTTGCAGTTTTGTTTACTGTGGAGGA
 ATTTAATGATAGAATTTACGACCAGAATTATCAAATGATGAAATGCTGTCTCTCATGAAGAATTGCAG
 AAGATTTATAAAACATACTGTTTGGATGAAAGTATTGACAAAATAGATTTGATCCCTCATTGTAGAAG
 AGATTCAAAGAATTGCTGAAGGCCATACATAGATGTTGTGAACTTCAAATATGAGATGCTTTTTTGA
 AGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCCTATGTTCTGCCATAGTGATGATAT
 TTCAGACAACCTTTAAGAGGTGCAGAATCACCAACACGCAATTCAAAATGAACAGGAACACACAGAAAA
 GGGGAGAATCATTTGGAATCAGCAGAATAGGTAGCAAAATTAAGGAGTATTCAAAGTACCACAATGGA
 GGGAGCTATGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGTATTGTTGTA
 ATGGAAGATGATTCTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCCGAAACCTTGCTGCATGGAAAA
 TTAGCATTCCATATGTAGACTTTTTTGGAGTCCCTCCTCTGAAAGGAAGGAGAAAAAGAAAGAAATTC
 TGTGTTTTGTATTGATGTTGAAAGAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTGGTCTGTC
 TATAGAAGATATCTGAATTCTATGTACTTGAATCAAACCTAACAGAATTCATGGTGCATTTCCCTGATG
 CCCAGCTTCTTCTAAGAGGATCATTGGCCCCAAAATTAATGAATTCCTAAAGTCAAAGAGGGAAGAGTT
 CCAAGAATATCTACAGAACTTCTGCAGCATCCAGAACTGAGTAATAGTCAACTCTGGCAGACTTTCTT
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 TTCTTGTGAGTCTCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCAGCCCTACTTCAGAAAAAC
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 TCATAACACTTCTCAGAGATGCTATATTCTGTGAAAACACTGAACCTCGCTCTCTCCAAGATAAGCAAAA
 AGGAGCAAAACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAA
 GAAACCAAGTATGAAAGCATCAGACTTCTGTTTGGATGGCTTACAGCAACCAGTACTCAACAAGCAGCTGA
 CTTATGTTTTATTGGACATTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTAC
 CTCTGTGACATCTGGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203024 representing NM_020468
Red=Cloning site Green=Tags(s)

MVPWVRTMGQKLKQRLRLDVGREICRQYPLFCFLLLCLSAASLLLNRYYIHLMIWFWSFVAGVVTFYCSLG
 PDSLLPNIFFTIKYPKQLGLQELFPQGHSCAVCGKVKCKRHRPSLLENYQPWLDLKISSKVDASLSEV
 DIPSIITKLLKAAMKHIEVIVKARQKVKNTFLQQAAL E E Y G P E L H V A L R S R R D E L H Y L R K L T E L L F P Y
 ILPPKATDCRSLTLLIREILSGSVFLPSLDFLADPDTVNHLIIIFIDDSPEKATEPASPLVPFLQKFAE
 PRNKKPSVLKLELKQIREQQDLLFRFMNFKQEGAVHVLQFCLTVEEFNDRILRPELSNDEMLSLHEELQ
 KIYKTYCLDESIDKIRFPFIVEEIQRI A E G P Y I D V V K L Q T M R C L F E A Y E H V L S L L E N V F T P M F C H S D E Y
 FRQLLRGAESPTRNSKLNRTQKRGESFGISRIGSKIKGVFKSTTMEGAMPLPNYGVAEGEDDFIEEGIVV
 MEDDSPVEAVSTPNTPRNLAAWKISIPYVDFEDPSSERKEKKEKIPVFCIDVERNDRRAVGHEPEHWSV
 YRRYLEFYVLESKLETFHGAFPDAQLPSKRIIGPKNYEFLKSKREEFQEYLQKLLQHPELSNSQLLADFL
 SPNGGETQFLDKILPDVNLGKIIKSVPGKLMKEKGQHLEPFIMNFINSCEPKPKPSRPELTILSPTSEN
 NKKLFNDLFKNNANRAENTERKQNYFMEVMTVEGVYDLYMYVGRVVFQVPDWLHLLMGTRILFKNTL
 EMYTDYLLQCKLEQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEMMNYIPDLLVKCIGE
 ETKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

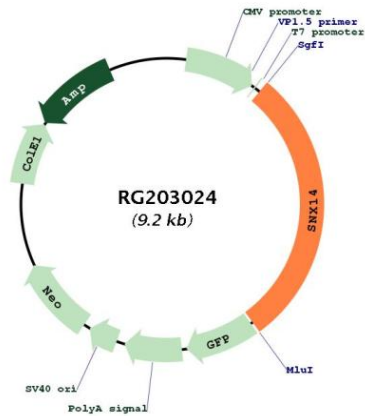
Cloning Scheme:



ACCN:	NM_020468
ORF Size:	2679 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_020468.5
RefSeq Size:	3346 bp
RefSeq ORF:	2682 bp
Locus ID:	57231
UniProt ID:	Q9Y5W7
Cytogenetics:	6q14.3
Domains:	RGS, PX, PXA
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the sorting nexin family. Members of this family have a phox (PX) phosphoinositide binding domain and are involved in intracellular trafficking. The encoded protein also contains a regulator of G protein signaling (RGS) domain. Regulator of G protein signaling family members are regulatory molecules that act as GTPase activating proteins for G alpha subunits of heterotrimeric G proteins. Alternate splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

Product images:

Circular map for RG203024