OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG223084

PCNX1 (NM_014982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCNX1 (NM_014982) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCNX1
Synonyms:	PCNX; PCNXL1; pecanex
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG223084 representing NM_014982
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTCGCAGACGCTGCAGATCCTCCGACAGGGGGTGTGGGCCGCGCTCAGCGGGGGCTGGTACTACG
ACCCGCACCAGGCCACCTTCGTGAACGCGCTGCACCTCTACCTGTGGCTCTTTCTGCTGGGCCTGCCCTT
CACCCTCTACATGGCCCTTCCTTCTACCATGATTATAGTAGCAGTTTATTGTCCTGTGATAGCTGCTGTT
TTCATTGTTCTGAAGATGGTCAACTATCGACTACACAGAGCACTTGATGCTGGAGAAGTTGTAGATAGGA
CTGCAAATGAGTTCACGGATCAGCGAACCAAAGCTGAACAAGGCAACTGTTCAACCAGGAGAAAAGACAG
CAATGGACCGAGTGATCCTGGTGGAGGGATTGAAATGTCTGAGTTCATCCGAGAGGCCACACCCCCAGTT
GGTTGCAGTTCCAGAAATTCTTATGCCGGTCTAGATCCAAGCAACCAGATTGGATCTGGTTCCTCGCGTC
TTGGAACAGCAGCAACTATTAAAGGAGATACAGACACTGCTAAGACTTCTGATGATATCAGTTTAAGTCT
GGGCCAAAGTTCTAGTCTTTGTAAGGAAGGAAGTGAAGAACAAGATTTGGCAGCTGATCGGAAGCTCTTT
CGTCTTGTCTCCAATGACTCCTTCATCTCTATTCAGCCTTCCTTATCCTCTTGTGGACAGGACTTGCCAA
GGGACTTCAGTGACAAAGTGAACCTGCCAAGTCATAACCACCACCACCATGTTGATCAGTCTCTGTCCAG
CGCCTGTGACACAGAAGTAGCTTCTCTTGTACCTTTACACTCACACTCTTATAGAAAAGACCACCGGCCG
CGAGGTGTACCACGGACTTCTAGCTCTGCTGTGGCTTTTCCAGACACTTCACTGAATGATTTTCCCCTTT
ATCAGCAAAGACGTGGATTAGATCCAGTTAGTGAGTTAGAATCTTCCAAGCCTCTTTCTGGATCCAAAGA
ATCCTTGGTGGAAAATTCTGGTTTATCTGGGGAATTTCAGCTTGCTGGTGACTTGAAAATCAATACTTCT
CAGCCACCCACAAAAAGTGGGAAGAGCAAACCTTTGAAAGCAGAGAAAAGCATGGACAGCTTGAGGAGCC
TGAGCACACGGAGTAGTGGGTCAACAGAAAGCTACTGCAGTGGAACGGACCGGGACACTAACAGTACTGT
CAGCAGCTATAAAAGTGAGCAGACCAGCTCAACTCACATAGAGAGCATCCTGTCAGAGCATGAGGAGTCT
CCTAAAGCAGGAACAAAAAGTGGGAGGAAGAAAGAGTGCTGTGCAGGCCCAGAGGAGAAGAATAGCTGTG
CCAGTGACAAAAGGACTAGCAGTGAAAAGATTGCTATGGAAGCGAGTACCAACAGTGGGGTTCACGAGGC
CAAGGACCCCACCCCCTCTGATGAGATGCACAACCAGAGAGGTCTCAGCACCTCTGCATCTGAAGAAGCC

View online »

AATAAAAATCCCCATGCAAATGAATTTACTTCCCAAGGGGACAGACCACCTGGGAACACTGCAGAAAACA
AAGAAGAGAAGAGTGATAAGTCAGCTGTTTCTGTGGATTCCAAAGTGCGTAAAGATGTTGGTGGAAAGCA
AAAGGAAGGGGATGTTCGACCTAAATCTTCTAGCGTAATCCATCGGACAGCTTCTGCCCACAAGTCAGGC
AGGAGACGCACAGGAAAAAAACGGGCTAGCAGTTTTGATTCAAGCCGGCATAGGGACTATGTTTGCTTTC
GAGGTGTTTCTGGTACCAAGCCACACAGTGCTATATTTTGTCATGACGAAGACTCTAGTGATCAGAGTGA
CTTGAGTAGAGCATCAAGTGTTCAGTCTGCTCACCAGTTCAGCAGTGATAGCTCTTCTAGCACCACTTCT
CATTCCTGTCAGTCTCCTGAGGGCAGATACAGTGCTCTAAAGACCAAACACACTCATAAAGAAAGGGGCA
CAGACTCTGAACACACACACAAAGCTCATTTGGTTCCTGAAGGAACCAGCAAAAAGCGTGCAACACGACG
GACTTCTAGCACAAATAGTGCCAAGACTCGTGCCCGAGTGTTGAGCCTGGACAGTGGCACAGTAGCATGT
TTGAATGACTCAAACAGGTTAATGGCACCTGAAAGTATAAAGCCCTTAACCACTTCAAAATCAGATCTTG
AGGCCAAAGAGGGAGAGGTGCTAGATGAGCTATCTTTATTAGGACGGGCTTCCCAGTTAGAGACAGTCAC
TCGATCTAGGAATAGCTTGCCAAACCAGGTTGCATTTCCTGAAGGGGAAGAGCAAGATGCAGTCAGTGGA
GCAGCACAAGCCAGCGAGGAGGCAGTGTCATTTCGCCGTGAACGCAGCACATTTAGGCGCCAGGCAGTAC
GGCGCCGGCACAATGCAGGGAGTAACCCTACCCCTCCTACATTGCTCATCGGATCACCCCTAAGCCTTCA
AGATGGTCAGCAAGGCCAGCAGTCCACAGCCCAGGTCAAAGTCCAGTCCCGCCCCCCTTCCCAGGCTGCA
GTGCTCAGTGCTAGTGCCTCCTTGCTGGTGAGAAATGGGAGTGTCCACTTAGAAGCATCACATGACAATG
CATCTGCTGTAGGCGGTAGCAGTTTGCACGATGAACTTGGTAAGTTCTCTTCTACGCTGTATGAGACTGG
TGGCTGTGATATGTCACTTGTGAATTTTGAACCAGCAGCAAGAAGAGCATCCAATATCTGTGACACAGAT
TCTCATGTATCCAGTTCTACCTCAGTTCGATTTTATCCACATGATGTGCTCTCTCTCCCACAGATTCGAT
TGAATAGACTATTGACCATTGATACAGATTTGTTGGAGCAACAGGACATTGATCTAAGCCCTGACTTGGC
AGCTACTTACGGCCCAACAGAAGAAGCTGCCCAAAAGGTTAAACACTATTATCGCTTTTGGATCCTACCC
CAGCTGTGGATTGGCATTAACTTTGACAGACTCACACTTTTGGCCCTGTTTGATAGAAATCGTGAGATCC
TGGAAAATGTGTTAGCTGTCATCCTGGCTATTCTCGTGGCCTTTTTGGGATCTATTCTTCTCATACAAGG
ATTCTTCAGAGATATCTGGGTCTTCCAGTTCTGCCTCGTCATAGCCAGCTGTCAATACTCACTGCTTAAG
AGTGTTCAACCAGATTCTTCTTCTCCCAGACATGGTCATAATCGTATCATTGCCTACAGTAGACCAGTTT
ATTTCTGCATATGTTGCGGTCTTATTTGGCTCTTGGATTATGGTAGCAGAAACCTGACTGCAACCAAGTT
CAAATTATATGGAATAACTTTCACCAATCCACTGGTGTTTATATCAGCCAGGGATTTAGTTATAGTGTTT
ACACTCTGTTTCCCAATAGTGTTTTTCATTGGTCTCCTGCCTCAGGTGAATACATTTGTAATGTACCTTT
GTGAACAATTGGATATTCATATTTTTGGTGGTAATGCCACTACAAGCCTGCTTGCAGCACTTTACAGTTT
TATCTGTAGCATTGTTGCAGTAGCCTTATTGTATGGATTATGTTATGGGGCTTTAAAGGATTCTTGGGAT
GGCCAGCATATTCCAGTACTTTTCTCCATTTTTTGTGGTTTATTAGTGGCAGTGTCTTACCATCTCAGCC
GACAAAGCAGTGATCCATCTGTACTTTTCTCTTTAGTGCAATCCAAGATTTTTCCAAAAACGGAAGAGAA
AAATCCAGAAGACCCTCTATCTGAAGTAAAAGATCCACTGCCTGAAAAACTTAGAAATTCTGTTAGTGAG
CGATTACAGTCTGACCTGGTAGTATGCATTGTAATTGGTGTGCTGTATTTTGCTATTCATGTAAGCACAG
TCTTCACAGTATTGCAGCCTGCCCTCAAGTATGTGTTGTATACATTGGTTGGCTTTGTGGGTTTTGTAAC
CCATTATGTGCTGCCTCAAGTTAGAAAACAGCTACCATGGCACTGTTTCTCTCATCCTCTGCTAAAGACA
CTAGAGTATAATCAGTATGAAGTTCGAAATGCAGCCACTATGATGTGGTTTGAGAAACTTCATGTGTGGC
TTCTTTTTGTGGAGAAGAATATAATCTATCCATTGATTGTTCTCAATGAACTGAGCAGCAGTGCAGAGAC
AATTGCTAGTCCAAAGAAACTGAATACAGAATTAGGTGCTTTAATGATCACTGTTGCTGGTTTGAAGTTG
CTACGATCCTCTTTTAGCAGCCCTACATATCAGTATGTTACAGTCATCTTTACTGTGCTGTTTTTCAAAT
TTGACTATGAAGCTTTTTCAGAGACCATGCTGTTGGATCTCTTCTTTATGTCCATACTCTTCAACAAGCT
TTGGGAACTACTTTATAAATTGCAGTTTGTGTATACCTATATTGCCCCATGGCAGATCACATGGGGTTCT
GCTTTCCATGCTTTTGCTCAGCCTTTTGCAGTGCCTCATTCAGCCATGCTGTTTATTCAGGCTGCTGTCT
CGGCCTTCTTCTCTACTCCACTGAACCCCTTTCTGGGAAGTGCAATATTCATCACTTCATATGTCCGACC
TGTGAAATTCTGGGAGAGAGACTATAACACAAAACGAGTGGATCATTCAAATACCAGATTGGCTTCCCAG
CTTGATAGAAATCCAGGATCAGATGACAACAATCTGAATTCCATCTTTTATGAGCATTTAACTAGATCCC
TACAGCACAGCCTCTGTGGTGATTTGCTACTAGGACGGTGGGGAAACTACAGTACAGGGGACTGTTTCAT
CCTTGCCTCTGACTATCTCAATGCATTAGTACACCTTATAGAGATAGGCAATGGTCTGGTCACTTTTCAG
CTGCGGGGACTTGAATTCAGAGGTACCTACTGTCAACAACGGGAAGTGGAGGCCATTACTGAAGGTGTAG
AGGAAGATGAAGGATTTTGCTGTTGTGAACCTGGCCATATTCCTCACATGCTTTCATTTAATGCTGCATT
TAGCCAGCGATGGCTAGCTTGGGAAGTGATAGTCACAAAGTACATTCTGGAGGGTTATAGCATCACTGAT
AACAGTGCTGCTTCTATGCTTCAAGTCTTTGATCTTCGGAAAGTACTCACCACTTACTATGTCAAGGGTA

TCATTTATTATGTTACGACCTCGTCTAAGCTAGAGGAGTGGCTAGCTAATGAGACAATGCAGGAAGGACT
TCGTCTGTGTGCTGATCGCAATTATGTCGATGTGGACCCGACCTTTAATCCAAACATTGATGAAGACTAT
GACCACCGACTGGCAGGCATATCTAGGGAGAGTTTCTGTGTGATTTACCTCAACTGGATAGAGTACTGCT
CTTCCCGAAGAGCAAAGCCTGTGGATGTGGACAAAGATTCATCCCTAGTGACTCTCTGTTATGGACTCTG
TGTTCTGGGACGGAGAGCTTTGGGGACTGCATCCCATCATATGTCCAGTAATTTAGAGTCATTCCTCTAT
GGATTGCATGCCCTATTTAAAGGAGATTTCCGTATTTCTTCAATTCGAGATGAATGGATCTTTGCTGACA
TGGAATTGCTAAGAAAAGTAGTAGTCCCTGGGATCCGTATGTCCATTAAACTTCATCAGGATCATTTTAC
TTCTCCAGATGAATATGATGACCCTACTGTGCTCTATGAAGCCATAGTATCTCATGAGAAGAACCTCGTA
ATAGCCCATGAAGGGGACCCTGCATGGCGGAGTGCAGTACTTGCCAACTCTCCCTCCTTGCTTGCTCTGC
GGCATGTCATGGATGATGGCACCAATGAATATAAAATCATCATGCTCAACAGACGCTACCTGAGCTTCAG
GGTCATTAAAGTGAATAAGGAATGTGTCCGAGGTCTTTGGGCAGGGCAACAGCAGGAGCTTGTTTTTCTA
CGTAACCGTAACCCAGAGAGAGGTAGCATCCAAAATGCAAAGCAAGCCCTGAGAAACATGATAAACTCAT
CTTGTGATCAACCTATTGGCTACCCAATCTTTGTCTCACCCCTGACAACTTCTTACTCTGACAGCCACGA
ACAGCTTAAAGACATTCTTGGGGGTCCTATCAGCTTGGGAAATATCAGGAACTTCATAGTGTCAACCTGG
CACAGGCTTAGGAAAGGTTGCGGAGCTGGATGTAACAGTGGTGGCAATATTGAAGATTCTGATACTGGAG
GTGGGACTTCCTGCACTGGTAACAATGCAACAACTGCCAACAATCCCCACAGCAACGTGACCCAGGGAAG
CATTGGAAATCCTGGGCAGGGATCAGGAACTGGACTCCACCCACCTGTCACATCTTATCCTCCAACACTA
GGCACTAGCCACAGCTCTCACTCTGTGCAGTCGGGCCTGGTCAGACAGTCTCCTGCCCGGGCCTCAGTAG
CCAGCCAGTCTTCCTACTGCTATAGCAGCCGGCATTCATCCCTCCGGATGTCCACCACTGGGTTTGTGCC
TTGTCGGCGCTCTTCTACTAGTCAGATATCGCTTCGAAACTTGCCATCATCCATCCAATCCCGACTGTCG
ATGGTGAACCAAATGGAACCCTCAGGTCAGAGCGGCCTGGCCTGTGTGCAGCACGGCCTGCCTTCCTCCA
GCAGCTCCAGCCAAAGCATCCCAGCCTGCAAACATCACACTCTCGTGGGCTTTCTTGCGACAGAGGGAGG
TCAGAGCAGTGCCACTGATGCACAGCCAGGCAACACCTTAAGTCCTGCCAACAATTCACACTCCAGAAAG
GCAGAAGTGATTTACAGAGTCCAAATTGTGGATCCCAGTCAAATTCTGGAAGGGATCAACCTGTCTAAAA
GGAAAGAGCTACAGTGGCCTGATGAAGGAATCCGGTTAAAAGCTGGGAGAAATAGCTGGAAAGACTGGAG
TCCGCAGGAGGGCATGGAAGGCCATGTGATTCACCGATGGGTGCCTTGCAGCAGAGATCCAGGTACCAGA
TCCCACATCGACAAGGCAGTGCTTCTGGTCCAGATTGATGATAAATATGTGACTGTAATTGAAACTGGGG
TACTAGAACTTGGGGCTGAAGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223084 representing NM_014982
Red=Cloning site Green=Tags(s)

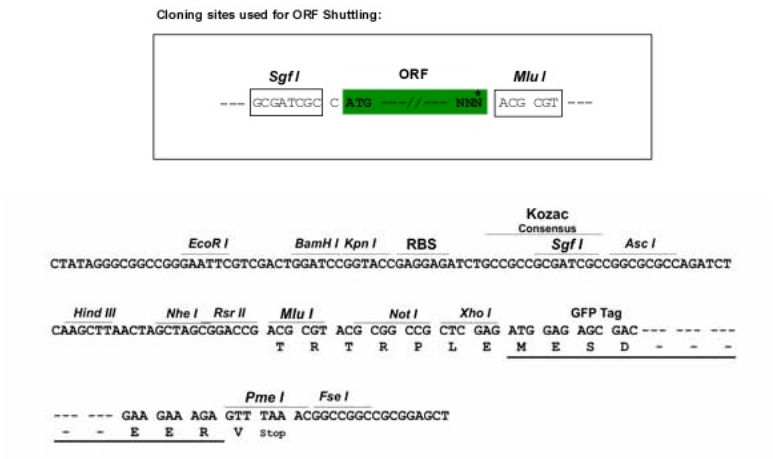
MGSQTLQILRQGVWAALSGGWYYDPHQATFVNALHLYLWLFLLGLPFTLYMALPSTMIIVAVYCPVIAAV
FIVLKMVNYRLHRALDAGEVVDRTANEFTDQRTKAEQGNCSTRRKDSNGPSDPGGGIEMSEFIREATPPV
GCSSRNSYAGLDPSNQIGSGSSRLGTAATIKGDTDTAKTSDDISLSLGQSSSLCKEGSEEQDLAADRKLF
RLVSNDSFISIQPSLSSCGQDLPRDFSDKVNLPSHNHHHHVDQSLSSACDTEVASLVPLHSHSYRKDHRP
RGVPRTSSSAVAFPDTSLNDFPLYQQRRGLDPVSELESSKPLSGSKESLVENSGLSGEFQLAGDLKINTS
QPPTKSGKSKPLKAEKSMDSLRSLSTRSSGSTESYCSGTDRDTNSTVSSYKSEQTSSTHIESILSEHEES
PKAGTKSGRKKECCAGPEEKNSCASDKRTSSEKIAMEASTNSGVHEAKDPTPSDEMHNQRGLSTSASEEA
NKNPHANEFTSQGDRPPGNTAENKEEKSDKSAVSVDSKVRKDVGGKQKEGDVRPKSSSVIHRTASAHKSG
RRRTGKKRASSFDSSRHRDYVCFRGVSGTKPHSAIFCHDEDSSDQSDLSRASSVQSAHQFSSDSSSSTTS
HSCQSPEGRYSALKTKHTHKERGTDSEHTHKAHLVPEGTSKKRATRRTSSTNSAKTRARVLSLDSGTVAC
LNDSNRLMAPESIKPLTTSKSDLEAKEGEVLDELSLLGRASQLETVTRSRNSLPNQVAFPEGEEQDAVSG
AAQASEEAVSFRRERSTFRRQAVRRRHNAGSNPTPPTLLIGSPLSLQDGQQGQQSTAQVKVQSRPPSQAA
VLSASASLLVRNGSVHLEASHDNASAVGGSSLHDELGKFSSTLYETGGCDMSLVNFEPAARRASNICDTD
SHVSSSTSVRFYPHDVLSLPQIRLNRLLTIDTDLLEQQDIDLSPDLAATYGPTEEAAQKVKHYYRFWILP
QLWIGINFDRLTLLALFDRNREILENVLAVILAILVAFLGSILLIQGFFRDIWVFQFCLVIASCQYSLLK
SVQPDSSSPRHGHNRIIAYSRPVYFCICCGLIWLLDYGSRNLTATKFKLYGITFTNPLVFISARDLVIVF
TLCFPIVFFIGLLPQVNTFVMYLCEQLDIHIFGGNATTSLLAALYSFICSIVAVALLYGLCYGALKDSWD
GQHIPVLFSIFCGLLVAVSYHLSRQSSDPSVLFSLVQSKIFPKTEEKNPEDPLSEVKDPLPEKLRNSVSE
RLQSDLVVCIVIGVLYFAIHVSTVFTVLQPALKYVLYTLVGFVGFVTHYVLPQVRKQLPWHCFSHPLLKT
LEYNQYEVRNAATMMWFEKLHVWLLFVEKNIIYPLIVLNELSSSAETIASPKKLNTELGALMITVAGLKL
LRSSFSSPTYQYVTVIFTVLFFKFDYEAFSETMLLDLFFMSILFNKLWELLYKLQFVYTYIAPWQITWGS
AFHAFAQPFAVPHSAMLFIQAAVSAFFSTPLNPFLGSAIFITSYVRPVKFWERDYNTKRVDHSNTRLASQ
LDRNPGSDDNNLNSIFYEHLTRSLQHSLCGDLLLGRWGNYSTGDCFILASDYLNALVHLIEIGNGLVTFQ
LRGLEFRGTYCQQREVEAITEGVEEDEGFCCCEPGHIPHMLSFNAAFSQRWLAWEVIVTKYILEGYSITD
NSAASMLQVFDLRKVLTTYYVKGIIYYVTTSSKLEEWLANETMQEGLRLCADRNYVDVDPTFNPNIDEDY
DHRLAGISRESFCVIYLNWIEYCSSRRAKPVDVDKDSSLVTLCYGLCVLGRRALGTASHHMSSNLESFLY
GLHALFKGDFRISSIRDEWIFADMELLRKVVVPGIRMSIKLHQDHFTSPDEYDDPTVLYEAIVSHEKNLV
IAHEGDPAWRSAVLANSPSLLALRHVMDDGTNEYKIIMLNRRYLSFRVIKVNKECVRGLWAGQQQELVFL
RNRNPERGSIQNAKQALRNMINSSCDQPIGYPIFVSPLTTSYSDSHEQLKDILGGPISLGNIRNFIVSTW
HRLRKGCGAGCNSGGNIEDSDTGGGTSCTGNNATTANNPHSNVTQGSIGNPGQGSGTGLHPPVTSYPPTL
GTSHSSHSVQSGLVRQSPARASVASQSSYCYSSRHSSLRMSTTGFVPCRRSSTSQISLRNLPSSIQSRLS
MVNQMEPSGQSGLACVQHGLPSSSSSSQSIPACKHHTLVGFLATEGGQSSATDAQPGNTLSPANNSHSRK
AEVIYRVQIVDPSQILEGINLSKRKELQWPDEGIRLKAGRNSWKDWSPQEGMEGHVIHRWVPCSRDPGTR
SHIDKAVLLVQIDDKYVTVIETGVLELGAEV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



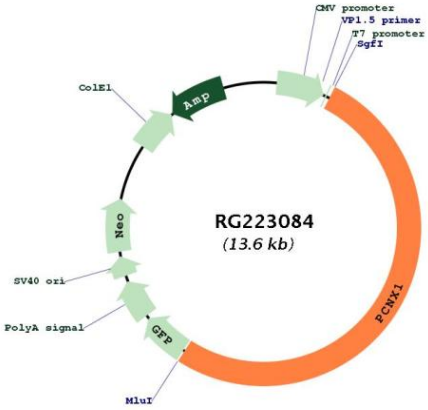
ACCN:	NM_014982
ORF Size:	7023 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_014982.3
RefSeq Size:	12936 bp
RefSeq ORF:	7026 bp
Locus ID:	22990
UniProt ID:	Q96RV3
Cytogenetics:	14q24.2

Domains: Pecanex_C

Protein Families: Transmembrane

Gene Summary: This gene encodes an evolutionarily conserved transmembrane protein similar to the pecanex protein in Drosophila. The fly protein is a component of the Notch signaling pathway, which functions in several developmental processes. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG223084