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 RG212762

Piccolo (PCLO) (NM_033026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Piccolo (PCLO) (NM_033026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Piccolo
Synonyms:	ACZ; PCH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212762 representing NM_033026
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAACGAGGCGAGCTTGGAAGGGGAAGGGCTCCCCGAAGGGCTGGCGGCGGCCGCAGCGGCTGGAG
GAGGAGCTAGCGGGGCGGGGAGCCCCTCTCACACCGCGATCCCGGCCGGCATGGAGGCGGATTTGAGCCA
GCTGAGCGAAGAGGAGAGGAGACAGATCGCCGCTGTCATGTCAAGGGCGCAGGGGCTGCCCAAGGGAAGC
GTCCCCCCGGCCGCTGCGGAGTCGCCTTCCATGCACAGGAAACAAGAGTTGGATAGTAGTCATCCTCCAA
AGCAATCAGGAAGACCCCCGGACCCTGGGCGTCCAGCTCAACCTGGTCTCAGTAAAAGTAGAACTACAGA
CACTTTCAGGTCAGAGCAGAAATTGCCTGGGAGGAGTCCTTCCACTATTAGCTTGAAAGAATCAAAGTCC
AGAACTGATTTAAAGGAAGAGCACAAGTCTAGTATGATGCCTGGCTTCCTCTCAGAGGTTAACGCTTTAA
GTGCTGTTTCCTCTGTTGTAAATAAATTCAACCCTTTTGATTTGATATCAGACTCTGAGGCATCCCAGGA
AGAAACCACCAAGAAACAAAAAGTGGTTCAGAAGGAGCAAGGAAAACCTGAAGGAATCATAAAACCTCCT
TTACAACAACAGCCACCCAAGCCGATTCCTAAGCAGCAAGGACCTGGTAGGGATCCGCTTCAGCAGGATG
GCACTCCCAAATCAATATCTTCTCAACAACCAGAAAAAATTAAATCACAACCTCCAGGTACAGGAAAGCC
AATTCAGGGTCCTACCCAGACTCCTCAGACAGACCATGCAAAATTGCCACTTCAACGAGATGCATCCAGG
CCTCAGACTAAACAGGCAGACATAGTAAGGGGAGAATCAGTTAAACCCTCACTGCCAAGCCCATCCAAAC
CACCTATTCAGCAACCAACTCCTGGAAAACCTCCAGCACAGCAGCCTGGACATGAAAAATCACAGCCTGG
GCCTGCAAAGCCCCCAGCTCAGCCCTCAGGGCTAACAAAGCCATTGGCTCAACAACCAGGGACAGTGAAA
CCCCCAGTCCAGCCACCAGGGACAACAAAGCCTCCAGCTCAGCCTCTTGGTCCTGCTAAGCCTCCAGCTC
AGCAGACTGGGTCAGAGAAGCCTTCATCGGAGCAGCCTGGGCCAAAGGCTTTAGCTCAGCCTCCTGGAGT
TGGAAAGACTCCAGCTCAACAGCCAGGGCCAGCAAAGCCTCCAACCCAGCAGGTGGGGACACCAAAACCC
CTAGCTCAACAACCTGGGCTACAGTCTCCAGCTAAGGCACCTGGGCCTACAAAGACTCCAGTTCAGCAGC
CTGGGCCAGGAAAGATTCCAGCTCAACAGGCAGGACCCGGAAAGACTTCTGCCCAGCAGACTGGCCCAAC
AAAGCCTCCTTCACAACTGCCTGGCCCAGCAAAGCCCCCACCTCAACAGCCTGGCCCAGCAAAGCCCCCA

View online »

CCTCAACAGCCTGGCTCAGCAAAGCCCCCATCTCAACAGCCTGGCTCAACAAAACCCCCACCTCAACAGC
CTGGCCCAGCAAAGCCCTCACCTCAACAGCCTGGCTCAACAAAACCCCCATCTCAACAGCCTGGCTCAGC
AAAACCCTCAGCTCAACAGCCTAGCCCAGCAAAGCCCTCGGCTCAGCAATCTACAAAACCAGTAAGCCAA
ACAGGATCTGGAAAACCTCTGCAGCCACCAACAGTGTCTCCATCTGCAAAACAGCCTCCTTCACAAGGCC
TCCCTAAAACCATCTGTCCTCTTTGCAATACCACTGAACTTCTGTTGCATGTTCCAGAAAAGGCCAATTT
TAACACATGCACTGAGTGTCAAACCACTGTCTGTAGTCTCTGTGGTTTTAATCCCAATCCTCATTTAACG
GAGGTAAAAGAGTGGCTCTGTTTGAACTGTCAAATGAAAAGAGCTCTAGGCGGGGATCTGGCTCCAGTTC
CGTCATCACCCCAGCCCAAACTGAAGACTGCACCTGTTACCACTACATCAGCAGTGAGCAAATCATCCCC
ACAGCCACAGCAGACTTCCCCAAAGAAGGATGCTGCACCAAAACAGGATCTCTCCAAGGCACCTGAGCCT
AAAAAGCCACCACCACTAGTGAAACAACCAACCCTTCATGGCTCTCCTTCAGCCAAGGCCAAGCAGCCCC
CTGAGGCAGATTCTTTGTCCAAGCCAGCCCCTCCCAAAGAACCTTCTGTCCCATCTGAGCAGGACAAGGC
CCCTGTTGCTGATGATAAACCAAAGCAGCCCAAGATGGTAAAGCCAACCACTGACCTTGTATCTTCATCA
TCAGCAACAACAAAACCTGATATTCCAAGCTCCAAAGTACAGTCACAAGCTGAAGAGAAAACAACCCCTC
CTCTAAAAACAGACTCTGCCAAACCCTCACAGAGTTTTCCACCAACAGGGGAAAAAGTCAGCCCATTTGA
TTCTAAAGCCATACCTCGACCTGCATCAGATTCAAAAATTATTTCACATCCTGGTCCCAGTTCAGAGAGC
AAAGGTCAAAAACAAGTTGACCCCGTACAAAAGAAGGAAGAACCCAAGAAAGCACAAACCAAAATGAGTC
CTAAACCAGATGCCAAGCCAATGCCAAAAGGGTCACCAACACCCCCTGGCCCACGACCTACCGCTGGCCA
AACTGTCCCCACACCTCAACAGTCCCCAAAGCCTCAGGAGCAGTCAAGGCGTTTCAGTCTGAATCTGGGA
AGTATTACTGATGCCCCCAAATCACAGCCTACAACTCCTCAAGAGACCGTGACTGGGAAACTCTTTGGGT
TTGGAGCATCAATCTTCAGCCAGGCATCAAATTTAATTTCCACTGCAGGCCAACCTGGACCTCATTCACA
AAGTGGACCAGGGGCCCCAATGAAACAAGCCCCTGCCCCTTCACAGCCACCTACTTCACAAGGGCCACCC
AAATCCACAGGTCAAGCACCACCAGCACCTGCAAAAAGTATACCTGTGAAAAAGGAAACAAAAGCCCCAG
CAGCTGAAAAATTAGAGCCCAAAGCTGAACAAGCTCCAACAGTAAAAAGAACAGAAACAGAAAAAAAGCC
ACCACCTATTAAGGATAGCAAATCTTTAACAGCTGAGCCTCAAAAGGCTGTCCTTCCCACAAAACTGGAG
AAATCGCCCAAACCAGAATCAACCTGTCCTCTCTGCAAAACTGAACTCAACATAGGTTCTAAGGATCCTC
CTAACTTCAATACTTGCACTGAATGCAAGAATCAAGTGTGTAATCTCTGTGGATTTAACCCTACACCACA
TTTGACTGAGATTCAAGAATGGCTTTGTTTAAATTGCCAAACCCAGAGAGCAATATCAGGACAGCTTGGA
GACATACGCAAAATGCCACCTGCACCATCAGGACCCAAAGCATCTCCTATGCCTGTTCCTACAGAATCAT
CATCTCAGAAAACAGCAGTGCCTCCCCAAGTAAAATTAGTGAAAAAGCAAGAACAAGAAGTAAAAACGGA
AGCTGAAAAAGTCATTCTGGAAAAAGTAAAGGAAACACTATCAATGGAAAAAATTCCTCCTATGGTAACC
ACAGATCAAAAACAAGAAGAGAGTAAACTAGAGAAAGACAAAGCTTCAGCTCTTCAAGAAAAAAAGCCAC
TCCCTGAAGAAAAAAAACTAATCCCTGAAGAAGAAAAGATACGTTCTGAAGAAAAAAAGCCACTCCTAGA
AGAAAAAAAGCCAACCCCTGAAGACAAAAAGCTACTCCCAGAGGCAAAAACATCAGCCCCAGAAGAACAG
AAACATGACTTACTTAAATCTCAAGTACAAATTGCTGAAGAAAAGCTTGAAGGCAGAGTGGCTCCAAAGA
CAGTGCAAGAAGGGAAACAACCACAGACCAAGATGGAAGGTTTACCATCTGGCACACCTCAGAGTTTACC
TAAAGAAGATGATAAGACAACCAAAACAATAAAAGAACAGCCACAGCCACCATGCACAGCAAAACCTGAT
CAGGTGGAACCTGGGAAAGAAAAAACAGAAAAGGAAGATGACAAATCAGACACCTCAAGTTCTCAGCAGC
CTAAAAGCCCCCAAGGTCTGAGCGACACGGGATATTCTTCCGATGGAATATCAAGCTCACTTGGTGAAAT
TCCAAGTCTTATTCCAACTGATGAAAAGGATATTCTCAAGGGACTCAAAAAGGACTCTTTTTCACAAGAA
AGCAGCCCTTCCAGCCCCTCAGATTTGGCTAAGTTAGAAAGTACAGTCCTATCTATTTTGGAAGCTCAAG
CAAGTACACTTGCTGATGAAAAGTCAGAAAAGAAAACACAACCCCATGAAGTTTCTCCTGAACAGCCTAA
AGACCAAGAGAAAACTCAGAGTTTATCTGAAACCTTGGAAATTACTATTTCAGAAGAGGAGATCAAAGAG
AGTCAAGAAGAAAGGAAAGACACTTTTAAAAAAGATAGCCAACAAGATATTCCTTCCAGCAAGGACCATA
AAGAGAAGTCTGAGTTTGTTGATGACATAACTACTAGAAGAGAGCCTTATGATTCAGTTGAAGAGAGTAG
TGAAAGTGAAAACTCACCTGTTCCACAAAGAAAACGAAGAACTAGTGTTGGCTCATCAAGCAGTGATGAG
TATAAACAGGAAGACAGCCAAGGATCAGGGGAAGAGGAGGACTTCATTCGAAAACAAATCATAGAAATGA
GTGCTGATGAAGATGCTTCAGGTTCTGAAGATGATGAGTTCATCAGAAACCAGCTCAAAGAGATTAGTAG
CAGTACTGAGAGCCAGAAGAAGGAAGAAACAAAGGGAAAAGGCAAAATAACAGCAGGGAAACACAGACGA
CTGACTCGAAAAAGTAGCACAAGCATTGATGAAGATGCAGGAAGACGTCACTCATGGCATGATGAAGACG
ATGAAGCATTTGATGAAAGTCCTGAACTTAAATACAGAGAAACTAAAAGTCAGGAAAGTGAAGAACTTGT
AGTTACTGGAGGAGGAGGGCTACGCCGATTTAAAACAATTGAGCTCAACAGTACAATAGCAGATAAATAT
TCTGCAGAGTCATCACAGAAAAAAACAAGTTTGTATTTTGACGAAGAGCCAGAATTGGAAATGGAAAGCC

TGACAGACTCACCTGAAGATAGGTCAAGGGGAGAGGGATCTTCGAGTCTGCATGCTTCCAGCTTCACTCC
TGGTACATCCCCTACATCAGTATCATCACTTGATGAGGACAGTGACAGTAGCCCGAGTCACAAAAAAGGA
GAGAGCAAACAGCAACGCAAAGCTCGGCACAGACCACATGGCCCTCTTTTGCCTACTATTGAAGATTCTT
CAGAGGAAGAAGAATTGAGAGAGGAAGAAGAATTATTAAAGGAGCAAGAAAAGCAGAGGGAAATAGAACA
GCAACAAAGAAAGAGTTCTAGTAAAAAATCAAAGAAAGACAAAGATGAACTTCGAGCTCAGAGAAGAAGG
GAAAGGCCAAAGACACCACCTAGTAATCTCTCTCCCATTGAAGATGCATCTCCGACAGAAGAGTTACGTC
AGGCTGCAGAAATGGAGGAGCTCCATAGATCTTCTTGTTCTGAATATTCACCTAGCATAGAGTCAGACCC
AGAAGGTTTTGAAATAAGCCCGGAAAAAATAATAGAAGTACAAAAAGTTTATAAATTGCCCACAGCTGTT
TCATTATACTCACCAACAGATGAGCAATCTATTATGCAGAAAGAAGGTAGCCAAAAGGCGTTAAAAAGTG
CTGAGGAGATGTATGAAGAAATGATGCATAAAACACACAAATACAAAGCTTTTCCAGCTGCAAATGAACG
AGATGAAGTGTTTGAAAAAGAGCCTTTGTATGGTGGGATGCTAATAGAGGATTATATTTATGAATCTTTA
GTAGAAGACACGTACAATGGATCGGTAGATGGCAGTCTGCTAACAAGGCAAGAAGAAGAAAATGGATTTA
TGCAGCAGAAAGGAAGAGAGCAAAAGATAAGACTTTCAGAACAGATTTATGAAGATCCTATGCAGAAAAT
TACAGACCTCCAGAAAGAGTTTTATGAGTTAGAAAGCTTACATTCTGTTGTGCCTCAGGAAGATATTGTT
TCAAGCTCTTTTATCATCCCAGAAAGCCATGAGATAGTGGACCTGGGTACTATGGTAACTTCTACAGAAG
AAGAAAGGAAACTACTAGATGCTGATGCTGCCTATGAAGAACTTATGAAGAGGCAACAGATGCAATTAAC
ACCTGGATCTAGCCCAACCCAGGCCCCCATTGGTGAGGATATGACAGAGTCCACCATGGACTTTGACAGA
ATGCCAGATGCCTCTTTGACATCAAGTGTTCTCTCAGGAGCGTCTCTTACAGATTCGACCAGCAGTGCAA
CACTCTCTATCCCAGATGTTAAAATAACCCAACATTTTTCAACAGAAGAAATTGAGGATGAATATGTAAC
CGATTATACAAGAGAAATTCAAGAGATAATTGCCCATGAATCGCTGATTTTGACCTACTCGGAGCCTTCA
GAAAGTGCTACATCTGTCCCACCCTCTGACACACCTTCTCTCACATCATCTGTTTCTTCGGTCTGTACCA
CAGATAGCTCTTCACCCATTACTACCCTGGATAGCATAACCACAGTTTATACAGAGCCAGTGGACATGAT
AACTAAATTTGAAGATTCTGAGGAAATTTCTTCATCAACTTATTTTCCAGGCAGCATTATAGACTATCCA
GAAGAAATAAGTGTATCTTTAGATCGGACTGCCCCACCAGATGGTAGAGCTAGTGCTGATCATATTGTTA
TTTCCTTATCTGATATGGCATCTTCTATCATAGAATCTGTAGTACCTAAACCTGAAGGGCCAGTTGCTGA
CACTGTTTCTACTGACTTACTTATATCTGAAAAGGACCCAGTGAAGAAAGCCAAGAAGGAAACTGGGAAT
GGAATCATTCTGGAAGTTTTGGAAGCTTACAGAGATAAAAAGGAGTTGGAGGCCGAACGAACAAAAAGTA
GCTTATCCGAAACCGTGTTTGATCACCCACCTTCTTCTGTAATAGCCCTTCCAATGAAAGAGCAGCTTTC
AACTACATACTTTACATCTGGAGAGACCTTTGGTCAGGAAAAACCTGCATCTCAGTTACCATCTGGCAGT
CCTTCTGTTTCCTCTCTTCCAGCTAAACCTCGCCCATTCTTTAGAAGTTCTTCTTTGGATATATCAGCTC
AACCTCCTCCCCCTCCTCCCCCTCCCCCTCCTCCTCCTCCTCCACCACCACCCCCTCCTCCCCCACCACT
TCCTCCACCAACTTCACCTAAACCAACTATTCTTCCTAAAAAAAAGTTAACAGTTGCATCTCCAGTGACT
ACAGCTACACCTCTGTTTGATGCTGTTACTACTCTAGAGACCACAGCTGTTCTGAGAAGTAATGGATTAC
CTGTTACAAGAATATGTACTACTGCACCTCCTCCTGTTCCTCCTAAGCCATCTTCAATTCCATCTGGACT
TGTATTTACCCACAGGCCTGAGCCAAGCAAACCTCCAATCGCCCCCAAACCAGTGATTCCTCAGCTTCCA
ACAACTACACAAAAACCAACAGATATACACCCCAAACCAACAGGCCTATCTTTAACTTCAAGTATGACCT
TAAATTTAGTGACTTCAGCAGATTATAAATTGCCTTCCCCTACCTCCCCACTTTCCCCACACTCCAACAA
GTCTTCACCAAGATTTTCCAAATCCCTCACAGAAACTTATGTAGTTATTACATTGCCATCTGAACCAGGG
ACTCCAACAGATTCTTCTGCTAGTCAAGCAATTACCAGTTGGCCCTTGGGATCACCCTCCAAAGATCTGG
TTTCTGTTGAACCTGTGTTTTCTGTAGTTCCTCCTGTGACAGCTGTAGAAATTCCAATTTCTTCAGAACA
GACCTTCTACATCTCTGGAGCTTTACAGACATTTTCTGCTACCCCTGTCACAGCACCCTCTTCATTTCAA
GCAGCTCCCACATCAGTTACACAGTTTCTCACTACTGAAGTTTCCAAGACTGAGGTTTCAGCAACCAGAA
GTACAGCTCCTAGTGTTGGTCTCAGCAGCATTTCCATAACAATTCCTCCAGAGCCTCTTGCTCTAGATAA
CATACATTTAGAGAAGCCTCAGTATAAAGAAGATGGAAAATTGCAACTTGTTGGTGATGTAATTGATTTG
CGTACAGTACCAAAGGTAGAAGTTAAAACAACTGATAAATGTATTGATCTTTCTGCTTCTACAATGGATG
TGAAAAGGCAGATCACAGCAAATGAAGTTTATGGGAAACAAATTAGTGCTGTCCAACCCTCTATTATAAA
TCTTAGTGTGACATCATCAATAGTGACTCCTGTATCTCTGGCCACTGAGACAGTGACCTTTGTCACATGC
ACAGCTAGTGCAAGTTACACTACAGGCACAGAAAGCCTAGTGGGTGCAGAACATGCAATGACAACACCAC
TCCAACTTACAACATCAAAGCATGCTGAGCCCCCATACAGGATACCAAGTGACCAGGTCTTTCCTATAGC
TAGGGAAGAAGCACCAATAAACTTATCTCTAGGTACTCCAGCACATGCAGTGACATTGGCTATTACAAAA
CCTGTCACTGTGCCTCCTGTTGGTGTCACAAATGGATGGACTGATAGCACCGTATCCCAGGGAATCACTG
ATGGGGAAGTAGTGGATCTCAGTACAACCAAGTCTCACAGAACAGTCGTAACAATGGATGAGTCTACTTC

AAGTGTGATGACCAAAATAATAGAAGATGAAAAACCCGTTGATTTAACCGCAGGGAGAAGAGCTGTGTGC
TGTGATGTGGTTTATAAATTACCATTTGGAAGGAGCTGCACAGCACAGCAGCCTGCAACTACTCTTCCTG
AGGATCGTTTTGGTTATAGGGATGACCACTATCAGTATGATCGATCAGGGCCATATGGTTATAGAGGGAT
TGGGGGAATGAAGCCTTCCATGTCTGACACAAATTTAGCAGAAGCTGGACATTTTTTCTATAAAAGTAAG
AATGCTTTTGATTATTCTGAAGGAACTGACACAGCAGTAGATCTGACTTCAGGGAGAGTTACTACAGGTG
AGGTAATGGATTATTCAAGCAAGACTACAGGTCCATATCCAGAAACACGACAAGTCATTTCAGGAGCTGG
GATTAGTACCCCACAGTATTCCACAGCAAGAATGACACCACCACCAGGACCCCAGTATTGTGTGGGGAGT
GTTTTGAGGTCATCTAATGGTGTTGTCTATTCTTCAGTAGCAACTCCAACACCCTCTACATTTGCTATCA
CCACACAACCTGGCTCCATTTTCAGCACCACAGTGAGGGATTTGTCTGGTATTCATACGGCTGATGCAGT
GACTTCATTACCTGCCATGCACCATAGCCAGCCAATGCCTAGATCATATTTTATAACAACAGGTGCATCT
GAAACGGACATTGCAGTAACTGGTATTGATATCAGTGCCAGTTTGCAAACTATTACTATGGAGTCTCTTA
CTGCTGAGACGATAGACTCTGTTCCCACTTTAACCACAGCATCCGAAGTGTTTCCTGAAGTGGTGGGAGA
TGAAAGTGCTCTTTTAATTGTCCCTGAAGAAGATAAACAACAGCAGCAGCTAGACTTGGAGCGTGAGCTC
CTGGAACTGGAGAAAATTAAGCAACAGCGCTTTGCTGAGGAATTGGAGTGGGAACGTCAGGAAATTCAAA
GGTTCCGAGAACAAGAAAAGATCATGGTTCAGAAAAAGTTGGAGGAGCTGCAGTCTATGAAGCAACACCT
TCTCTTTCAGCAAGAAGAAGAGCGGCAAGCCCAGTTCATGATGAGGCAGGAGACGTTAGCTCAGCAACAG
TTACAGCTTGAGCAGATCCAACAGCTGCAACAACAGCTTCACCAGCAGCTGGAGGAGCAAAAGATTCGGC
AGATCTACCAGTATAACTATGACCCTTCTGGAACTGCTTCTCCACAAACCACTACAGAGCAGGCAATTTT
GGAAGGTCAGTATGCTGCTCTGGAAGGCAGTCAATTTTGGGCAACTGAAGATGCAACCACCACAGCTTCA
GCTGTTGTGGCAATTGAAATACCACAAAGCCAAGGATGGTACACCGTTCAGTCTGATGGTGTTACTCAGT
ACATTGCCCCACCTGGTATCCTGAGCACTGTTTCAGAAATACCTCTAACAGATGTTGTTGTGAAAGAGGA
AAAACAACCCAAAAAGAGAAGTTCTGGAGCTAAAGTCCGAGGACAGTATGATGACATGGGAGAAAATATG
ACAGATGATCCCCGAAGTTTTAAAAAGATAGTGGACAGTGGTGTACAAACGGATGACGAAGATGCCACAG
ATCGGAGCTATGTGAGTAGGAGAAGGAGAACTAAAAAGAGTGTGGATACAAGCGTCCAAACTGATGATGA
AGATCAGGATGAGTGGGATATGCCTACTAGATCAAGGAGGAAAGCTCGTGTAGGGAAATATGGTGACAGC
ATGACAGAGGCTGACAAGACCAAACCCCTTTCCAAAGTCTCCAGCATAGCAGTTCAAACGGTAGCAGAGA
TATCTGTGCAAACTGAACCAGTTGGAACCATAAGAACACCCTCCATACGGGCACGAGTGGATGCCAAGGT
AGAAATAATTAAACACATTTCAGCACCTGAAAAGACTTACAAAGGGGGCAGTTTAGGATGTCAAACAGAA
GCAGATTCAGACACACAAAGTCCTCAATATCTGAGTGCCACATCTCCACCCAAAGACAAGAAACGCCCAA
CACCTTTAGAGATTGGTTATTCATCTCACCTCCGGGCAGATTCCACAGTACAGCTGGCTCCTTCCCCACC
CAAATCCCCCAAAGTCCTTTACTCACCCATCTCACCACTTTCACCAGGCAAAGCCTTAGAATCAGCCTTT
GTACCTTATGAAAAACCCCTCCCTGATGATATAAGTCCACAGAAAGTACTGCATCCAGATATGGCTAAAG
TTCCCCCAGCAAGTCCTAAGACAGCCAAGATGATGCAGCGTTCTATGTCTGACCCCAAGCCTCTGAGTCC
AACAGCAGACGAAAGTTCCAGGGCTCCTTTTCAGTATACCGAGGGCTATACGACTAAAGGTTCTCAAACC
ATGACATCCTCTGGAGCCCAGAAAAAAGTTAAAAGAACTCTGCCAAATCCACCTCCTGAGGAGATTTCCA
CAGGAACTCAATCCACATTCAGCACAATGGGCACAGTTTCCAGGAGAAGGATCTGCAGAACCAACACAAT
GGCACGAGCCAAGATTCTCCAGGACATAGACAGAGAGCTTGATCTTGTGGAAAGGGAGTCTGCAAAACTT
CGAAAGAAACAAGCAGAGCTTGATGAAGAAGAAAAGGAGATTGATGCTAAGCTACGATACCTGGAAATGG
GAATTAACAGGAGGAAAGAGGCCCTATTAAAGGAGAGAGAAAAGAGAGAACGAGCCTACCTCCAGGGAGT
AGCTGAGGATCGTGATTACATGTCTGACAGTGAAGTGAGTAGCACAAGACCAACCCGAATAGAAAGTCAG
CATGGCATTGAGCGACCAAGAACTGCTCCCCAAACTGAATTCAGCCAGTTTATACCACCACAAACCCAAA
CAGAATCTCAACTAGTTCCTCCGACAAGTCCTTACACACAATACCAGTACTCTTCCCCTGCTCTTCCTAC
CCAAGCACCCACCTCATACACTCAACAGTCTCATTTTGAGCAACAAACTTTGTACCATCAGCAAGTTTCA
CCTTATCAGACTCAGCCAACATTCCAAGCTGTGGCAACAATGTCCTTCACACCTCAAGTTCAACCTACAC
CAACCCCACAGCCTTCTTATCAGTTACCTTCACAGATGATGGTGATACAACAGAAGCCACGGCAAACTAC
ATTATATTTGGAGCCCAAGATAACCTCAAACTATGAAGTGATTCGCAACCAACCCCTTATGATAGCACCT
GTTTCTACGGATAACACATTTGCTGTTTCCCATCTTGGTAGTAAGTACAATAGTTTAGACTTGAGAATAG
GTTTGGAGGAAAGAAGTAGCATGGCAAGCAGTCCAATATCAAGCATATCTGCAGATTCTTTCTATGCAGA
TATTGATCACCATACTCCACGAAATTATGTCCTAATTGACGACATTGGAGAGATCACCAAAGGAACAGCG
GCATTAAGCACCGCATTTAGCCTTCATGAAAAGGATCTGTCAAAAACAGACCGTCTCCTTCGAACCACTG
AGACACGCCGGTCTCAAGAAGTGACAGATTTCCTAGCACCTTTACAGTCTTCCTCTAGATTGCATAGTTA
TGTGAAGGCGGAGGAAGACCCAATGGAGGATCCTTACGAGTTAAAGCTTCTGAAACATCAGATTAAACAG

GAATTTCGTAGAGGGACAGAGAGCTTAGATCACCTTGCTGGTCTTTCTCATTATTACCATGCTGATACTA
GCTACAGACATTTTCCAAAATCTGAGAAGTATAGCATCAGTAGACTCACACTTGAAAAACAAGCAGCAAA
ACAACTGCCAGCAGCCATACTTTATCAAAAGCAGTCAAAGCATAAGAAATCACTAATTGACCCTAAAATG
TCAAAATTTTCACCTATTCAAGAAAGTAGAGACCTTGAACCTGATTATTCAAGCTATATGACTTCTAGCA
CTTCATCTATTGGTGGCATTTCCTCCAGGGCAAGGCTCCTTCAAGATGACATCACTTTTGGCCTCAGAAA
AAATATTACAGACCAACAAAAATTTATGGGATCTTCTCTTGGCACAGGACTGGGCACATTAGGAAATACC
ATACGCTCAGCTCTGCAGGATGAAGCGGATAAGCCATACAGTAGTGGCAGCAGGTCCAGACCTTCCTCCA
GACCTTCCTCTGTCTATGGGCTTGATTTATCAATTAAAAGGGATTCTTCTAGCTCTTCCCTAAGACTGAA
AGCTCAAGAGGCTGAAGCTCTAGATGTTTCCTTTAGTCATGCATCATCCTCTGCCAGAACTAAGCCGACC
AGTTTGCCAATTAGTCAAAGTAGAGGAAGAATACCAATTGTGGCCCAGAATTCTGAAGAAGAAAGCCCAC
TCAGTCCTGTTGGCCAGCCAATGGGAATGGCCAGGGCTGCAGCTGGACCCCTGCCACCAATATCTGCAGA
CACCAGGGATCAGTTTGGATCAAGCCACTCATTGCCTGAAGTTCAGCAACACATGAGGGAAGAATCACGG
ACTCGAGGCTATGACCGTGACATAGCATTCATCATGGATGACTTCCAACATGCCATGTCAGACAGTGAAG
CCTATCATCTGCGTCGTGAGGAAACAGATTGGTTTGATAAACCCAGGGAGTCTCGTTTGGAAAATGGACA
TGGTCTGGACCGAAAACTGCCGGAAAGATTGGTCCACTCTAGACCACTCAGTCAACATCAAGAGCAAATT
ATACAGATGAACGGGAAAACTATGCACTACATCTTTCCTCACGCAAGGATAAAAATAACAAGAGACTCAA
AGGATCACACAGTTTCAGGTAATGGATTAGGAATTAGAATTGTGGGTGGTAAAGAAATCCCGGGACATAG
TGGAGAAATTGGAGCCTATATTGCCAAGATTCTTCCTGGGGGAAGTGCGGAACAGACGGGGAAGCTTATG
GAAGGGATGCAAGTATTGGAATGGAATGGAATTCCCTTGACTTCTAAAACATATGAAGAAGTTCAGAGTA
TCATTAGTCAGCAAAGTGGGGAAGCAGAAATATGTGTAAGACTGGACCTCAATATGCTATCAGATTCTGA
AAATTCCCAGCATCTGGAACTTCATGAGCCACCAAAAGCTGTGGATAAGGCGAAATCCCCAGGGGTTGAT
CCTAAGCAGTTGGCAGCAGAACTCCAGAAGGTTTCACTACAGCAGTCACCGCTGGTTCTGTCATCAGTTG
TTGAAAAAGGATCTCATGTTCATTCAGGTCCTACATCAGCAGGATCCAGTTCCGTTCCCAGCCCTGGGCA
ACCAGGGTCCCCCTCAGTGAGCAAAAAGAAGCACGGCAGCAGCAAGCCTACCGATGGAACAAAGGTTGTC
TCTCATCCAATTACAGGAGAAATTCAGCTTCAAATTAACTATGATCTTGGAAATCTCATAATACATATTC
TCCAAGCAAGAAATCTTGTTCCTCGAGACAACAATGGTTATTCTGACCCTTTTGTGAAAGTGTACCTTCT
TCCAGGGAGAGGTCAAGTCATGGTTGTCCAGAATGCAAGTGCTGAGTACAAGAGAAGGACTAAACATGTC
CAGAAAAGTCTTAATCCTGAGTGGAATCAAACAGTAATTTATAAAAGTATTTCCATGGAACAGCTCAAGA
AGAAAACACTGGAGGTGACAGTTTGGGATTATGATAGATTTTCATCCAACGACTTCCTTGGGGAGGTATT
GATTGATTTATCTAGCACATCTCACCTCGATAACACTCCAAGGTGGTATCCTCTCAAAGAACAGACTGAA
AGCATTGATCATGGCAAGTCTCATTCCAGTCAGAGCAGCCAGCAGTCCCCAAAGCCATCTGTTATCAAAA
GCAGAAGCCATGGTATCTTCCCTGACCCATCAAAGGACATGCAGGTTCCCACCATTGAGAAATCCCATAG
TAGTCCTGGTAGCTCAAAATCATCATCAGAAGGCCATCTCCGTTCTCATGGACCATCTCGCAGTCAAAGC
AAAACCAGCGTCACTCAGACCCACCTGGAAGATGCAGGGGCTGCCATAGCTGCTGCCGAAGCTGCCGTGC
AACAACTCCGCATTCAACCAACAAAGCCTCCCAATCACCGGCCTGCAGAAAGCTCTGTGTCCACCGGCTC
CTCGGGCAGCAGCTTTGGCAGTGGGTATAGCGTGGACAGTGAAGGAAGCAGCAGCACTGCAGGGGAGACT
AATCTATTTCCTATTCCGAGGATAGGGAAGATGGGACAGAATGGACAAGAGCCTGTAAAACAGCCAGGGG
TAGGAGTAGGACTAGCAGACACTGAAGCTAAAACTCAGGTAATGGGAGAAATCAAGATTGCATTGAAGAA
GGAAATGAAGACAGATGGTGAACAACTAATAGTTGAAATTCTCCAATGCAGAAATATTACATACAAATTT
AAGTCTCCTGATCATCTACCAGATTTATATGTGAAAATATATGTGATGAATATTTCTACCCAAAAAAAGG
TGATCAAGAAAAAAACAAGAGTATGCAGACATGATCGAGAGCCTTCGTTTAATGAAACTTTTCGATTCAG
TCTAAGTCCTGCAGGACATTCTCTTCAGATTTTACTTTTCTCCAATGGAGGGAAGTTTATGAAAAAGACC
TTGATTGGTGAAGCCTGTATCTGGCTTGACAAAGTGGATCTCAGAAAAAGAATAGTCAACTGGCACAAAC
TTTTGGTCAGTCCTACTCAAACGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212762 representing NM_033026
Red=Cloning site Green=Tags(s)

MGNEASLEGEGLPEGLAAAAAAGGGASGAGSPSHTAIPAGMEADLSQLSEEERRQIAAVMSRAQGLPKGS
VPPAAAESPSMHRKQELDSSHPPKQSGRPPDPGRPAQPGLSKSRTTDTFRSEQKLPGRSPSTISLKESKS
RTDLKEEHKSSMMPGFLSEVNALSAVSSVVNKFNPFDLISDSEASQEETTKKQKVVQKEQGKPEGIIKPP

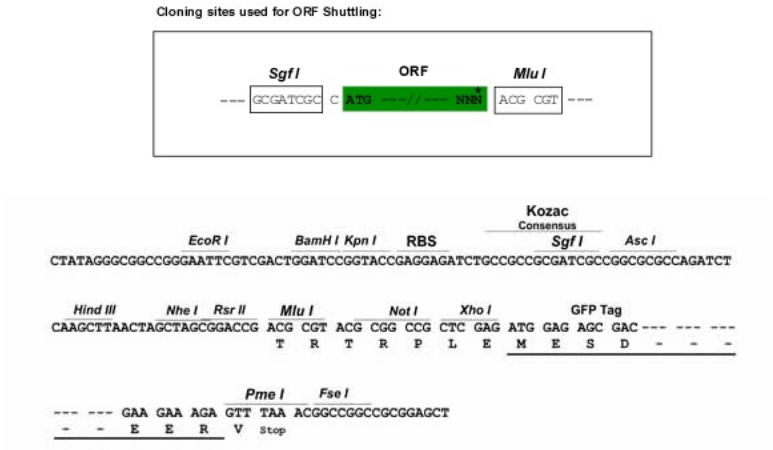
LQQQPPKPIPKQQGPGRDPLQQDGTPKSISSQQPEKIKSQPPGTGKPIQGPTQTPQTDHAKLPLQRDASR
PQTKQADIVRGESVKPSLPSPSKPPIQQPTPGKPPAQQPGHEKSQPGPAKPPAQPSGLTKPLAQQPGTVK
PPVQPPGTTKPPAQPLGPAKPPAQQTGSEKPSSEQPGPKALAQPPGVGKTPAQQPGPAKPPTQQVGTPKP
LAQQPGLQSPAKAPGPTKTPVQQPGPGKIPAQQAGPGKTSAQQTGPTKPPSQLPGPAKPPPQQPGPAKPP
PQQPGSAKPPSQQPGSTKPPPQQPGPAKPSPQQPGSTKPPSQQPGSAKPSAQQPSPAKPSAQQSTKPVSQ
TGSGKPLQPPTVSPSAKQPPSQGLPKTICPLCNTTELLLHVPEKANFNTCTECQTTVCSLCGFNPNPHLT
EVKEWLCLNCQMKRALGGDLAPVPSSPQPKLKTAPVTTTSAVSKSSPQPQQTSPKKDAAPKQDLSKAPEP
KKPPPLVKQPTLHGSPSAKAKQPPEADSLSKPAPPKEPSVPSEQDKAPVADDKPKQPKMVKPTTDLVSSS
SATTKPDIPSSKVQSQAEEKTTPPLKTDSAKPSQSFPPTGEKVSPFDSKAIPRPASDSKIISHPGPSSES
KGQKQVDPVQKKEEPKKAQTKMSPKPDAKPMPKGSPTPPGPRPTAGQTVPTPQQSPKPQEQSRRFSLNLG
SITDAPKSQPTTPQETVTGKLFGFGASIFSQASNLISTAGQPGPHSQSGPGAPMKQAPAPSQPPTSQGPP
KSTGQAPPAPAKSIPVKKETKAPAAEKLEPKAEQAPTVKRTETEKKPPPIKDSKSLTAEPQKAVLPTKLE
KSPKPESTCPLCKTELNIGSKDPPNFNTCTECKNQVCNLCGFNPTPHLTEIQEWLCLNCQTQRAISGQLG
DIRKMPPAPSGPKASPMPVPTESSSQKTAVPPQVKLVKKQEQEVKTEAEKVILEKVKETLSMEKIPPMVT
TDQKQEESKLEKDKASALQEKKPLPEEKKLIPEEEKIRSEEKKPLLEEKKPTPEDKKLLPEAKTSAPEEQ
KHDLLKSQVQIAEEKLEGRVAPKTVQEGKQPQTKMEGLPSGTPQSLPKEDDKTTKTIKEQPQPPCTAKPD
QVEPGKEKTEKEDDKSDTSSSQQPKSPQGLSDTGYSSDGISSSLGEIPSLIPTDEKDILKGLKKDSFSQE
SSPSSPSDLAKLESTVLSILEAQASTLADEKSEKKTQPHEVSPEQPKDQEKTQSLSETLEITISEEEIKE
SQEERKDTFKKDSQQDIPSSKDHKEKSEFVDDITTRREPYDSVEESSESENSPVPQRKRRTSVGSSSSDE
YKQEDSQGSGEEEDFIRKQIIEMSADEDASGSEDDEFIRNQLKEISSSTESQKKEETKGKGKITAGKHRR
LTRKSSTSIDEDAGRRHSWHDEDDEAFDESPELKYRETKSQESEELVVTGGGGLRRFKTIELNSTIADKY
SAESSQKKTSLYFDEEPELEMESLTDSPEDRSRGEGSSSLHASSFTPGTSPTSVSSLDEDSDSSPSHKKG
ESKQQRKARHRPHGPLLPTIEDSSEEEELREEEELLKEQEKQREIEQQQRKSSSKKSKKDKDELRAQRRR
ERPKTPPSNLSPIEDASPTEELRQAAEMEELHRSSCSEYSPSIESDPEGFEISPEKIIEVQKVYKLPTAV
SLYSPTDEQSIMQKEGSQKALKSAEEMYEEMMHKTHKYKAFPAANERDEVFEKEPLYGGMLIEDYIYESL
VEDTYNGSVDGSLLTRQEEENGFMQQKGREQKIRLSEQIYEDPMQKITDLQKEFYELESLHSVVPQEDIV
SSSFIIPESHEIVDLGTMVTSTEEERKLLDADAAYEELMKRQQMQLTPGSSPTQAPIGEDMTESTMDFDR
MPDASLTSSVLSGASLTDSTSSATLSIPDVKITQHFSTEEIEDEYVTDYTREIQEIIAHESLILTYSEPS
ESATSVPPSDTPSLTSSVSSVCTTDSSSPITTLDSITTVYTEPVDMITKFEDSEEISSSTYFPGSIIDYP
EEISVSLDRTAPPDGRASADHIVISLSDMASSIIESVVPKPEGPVADTVSTDLLISEKDPVKKAKKETGN
GIILEVLEAYRDKKELEAERTKSSLSETVFDHPPSSVIALPMKEQLSTTYFTSGETFGQEKPASQLPSGS
PSVSSLPAKPRPFFRSSSLDISAQPPPPPPPPPPPPPPPPPPPPPLPPPTSPKPTILPKKKLTVASPVT
TATPLFDAVTTLETTAVLRSNGLPVTRICTTAPPPVPPKPSSIPSGLVFTHRPEPSKPPIAPKPVIPQLP
TTTQKPTDIHPKPTGLSLTSSMTLNLVTSADYKLPSPTSPLSPHSNKSSPRFSKSLTETYVVITLPSEPG
TPTDSSASQAITSWPLGSPSKDLVSVEPVFSVVPPVTAVEIPISSEQTFYISGALQTFSATPVTAPSSFQ
AAPTSVTQFLTTEVSKTEVSATRSTAPSVGLSSISITIPPEPLALDNIHLEKPQYKEDGKLQLVGDVIDL
RTVPKVEVKTTDKCIDLSASTMDVKRQITANEVYGKQISAVQPSIINLSVTSSIVTPVSLATETVTFVTC
TASASYTTGTESLVGAEHAMTTPLQLTTSKHAEPPYRIPSDQVFPIAREEAPINLSLGTPAHAVTLAITK
PVTVPPVGVTNGWTDSTVSQGITDGEVVDLSTTKSHRTVVTMDESTSSVMTKIIEDEKPVDLTAGRRAVC
CDVVYKLPFGRSCTAQQPATTLPEDRFGYRDDHYQYDRSGPYGYRGIGGMKPSMSDTNLAEAGHFFYKSK
NAFDYSEGTDTAVDLTSGRVTTGEVMDYSSKTTGPYPETRQVISGAGISTPQYSTARMTPPPGPQYCVGS
VLRSSNGVVYSSVATPTPSTFAITTQPGSIFSTTVRDLSGIHTADAVTSLPAMHHSQPMPRSYFITTGAS
ETDIAVTGIDISASLQTITMESLTAETIDSVPTLTTASEVFPEVVGDESALLIVPEEDKQQQQLDLEREL
LELEKIKQQRFAEELEWERQEIQRFREQEKIMVQKKLEELQSMKQHLLFQQEEERQAQFMMRQETLAQQQ
LQLEQIQQLQQQLHQQLEEQKIRQIYQYNYDPSGTASPQTTTEQAILEGQYAALEGSQFWATEDATTTAS
AVVAIEIPQSQGWYTVQSDGVTQYIAPPGILSTVSEIPLTDVVVKEEKQPKKRSSGAKVRGQYDDMGENM
TDDPRSFKKIVDSGVQTDDEDATDRSYVSRRRRTKKSVDTSVQTDDEDQDEWDMPTRSRRKARVGKYGDS
MTEADKTKPLSKVSSIAVQTVAEISVQTEPVGTIRTPSIRARVDAKVEIIKHISAPEKTYKGGSLGCQTE
ADSDTQSPQYLSATSPPKDKKRPTPLEIGYSSHLRADSTVQLAPSPPKSPKVLYSPISPLSPGKALESAF
VPYEKPLPDDISPQKVLHPDMAKVPPASPKTAKMMQRSMSDPKPLSPTADESSRAPFQYTEGYTTKGSQT
MTSSGAQKKVKRTLPNPPPEEISTGTQSTFSTMGTVSRRRICRTNTMARAKILQDIDRELDLVERESAKL
RKKQAELDEEEKEIDAKLRYLEMGINRRKEALLKEREKRERAYLQGVAEDRDYMSDSEVSSTRPTRIESQ

HGIERPRTAPQTEFSQFIPPQTQTESQLVPPTSPYTQYQYSSPALPTQAPTSYTQQSHFEQQTLYHQQVS
PYQTQPTFQAVATMSFTPQVQPTPTPQPSYQLPSQMMVIQQKPRQTTLYLEPKITSNYEVIRNQPLMIAP
VSTDNTFAVSHLGSKYNSLDLRIGLEERSSMASSPISSISADSFYADIDHHTPRNYVLIDDIGEITKGTA
ALSTAFSLHEKDLSKTDRLLRTTETRRSQEVTDFLAPLQSSSRLHSYVKAEEDPMEDPYELKLLKHQIKQ
EFRRGTESLDHLAGLSHYYHADTSYRHFPKSEKYSISRLTLEKQAAKQLPAAILYQKQSKHKKSLIDPKM
SKFSPIQESRDLEPDYSSYMTSSTSSIGGISSRARLLQDDITFGLRKNITDQQKFMGSSLGTGLGTLGNT
IRSALQDEADKPYSSGSRSRPSSRPSSVYGLDLSIKRDSSSSSLRLKAQEAEALDVSFSHASSSARTKPT
SLPISQSRGRIPIVAQNSEEESPLSPVGQPMGMARAAAGPLPPISADTRDQFGSSHSLPEVQQHMREESR
TRGYDRDIAFIMDDFQHAMSDSEAYHLRREETDWFDKPRESRLENGHGLDRKLPERLVHSRPLSQHQEQI
IQMNGKTMHYIFPHARIKITRDSKDHTVSGNGLGIRIVGGKEIPGHSGEIGAYIAKILPGGSAEQTGKLM
EGMQVLEWNGIPLTSKTYEEVQSIISQQSGEAEICVRLDLNMLSDSENSQHLELHEPPKAVDKAKSPGVD
PKQLAAELQKVSLQQSPLVLSSVVEKGSHVHSGPTSAGSSSVPSPGQPGSPSVSKKKHGSSKPTDGTKVV
SHPITGEIQLQINYDLGNLIIHILQARNLVPRDNNGYSDPFVKVYLLPGRGQVMVVQNASAEYKRRTKHV
QKSLNPEWNQTVIYKSISMEQLKKKTLEVTVWDYDRFSSNDFLGEVLIDLSSTSHLDNTPRWYPLKEQTE
SIDHGKSHSSQSSQQSPKPSVIKSRSHGIFPDPSKDMQVPTIEKSHSSPGSSKSSSEGHLRSHGPSRSQS
KTSVTQTHLEDAGAAIAAAEAAVQQLRIQPTKPPNHRPAESSVSTGSSGSSFGSGYSVDSEGSSSTAGET
NLFPIPRIGKMGQNGQEPVKQPGVGVGLADTEAKTQVMGEIKIALKKEMKTDGEQLIVEILQCRNITYKF
KSPDHLPDLYVKIYVMNISTQKKVIKKKTRVCRHDREPSFNETFRFSLSPAGHSLQILLFSNGGKFMKKT
LIGEACIWLDKVDLRKRIVNWHKLLVSPTQTH

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

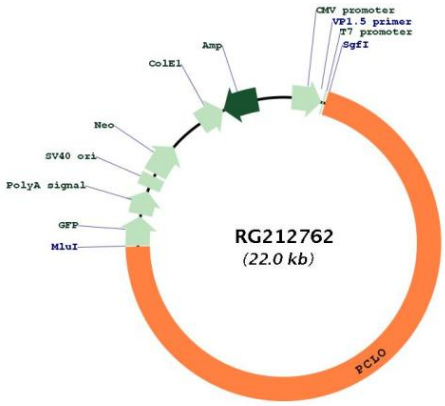


ACCN: NM_033026

ORF Size: 15426 bp

OTI Disclaimer:	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. 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_033026.6
RefSeq Size:	20288 bp
RefSeq ORF:	15429 bp
Locus ID:	27445
UniProt ID:	Q9Y6V0
Cytogenetics:	7q21.11
Gene Summary:	The protein encoded by this gene is part of the presynaptic cytoskeletal matrix, which is involved in establishing active synaptic zones and in synaptic vesicle trafficking. Variations in this gene have been associated with bipolar disorder and major depressive disorder. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG212762