

Product datasheet for **RC222048**

UNC79 (NM_020818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC79 (NM_020818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UNC79
Synonyms:	KIAA1409
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222048 representing NM_020818 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATATCAACGTTGGCTACCTTTCCTCCATTTCTGCACAAGGATATCATTGAATATCTTAGCACATCTT
TTCTACCAATGGCTATATTGGGCTCCTCAAGGAGAGAAGGTGTACCTGCCCATGTTAACCTCTCTGCATC
ATCCATGCTAATGATTGCAATGCAGTACACATCCAATCCAGTGTATCATTGTCAATTACTGGAATGCCTC
ATGAAATATAACAAGAAGTCTGGAAAGATCTTTTGTATGTGATTGCGTATGGGCCTTACAAGTGAAGC
CTCCAGCTGTGCAAATGCTTTTCCACTACTGGCCCAATTTAAACCTCCTGGGGCAATAAGCGAGTACAG
GGGTTGTCAGTACACAGCTTGGAAATCCCATCCACTGCCAGCACATTGAATGCCACAATGCAATTAACAAA
CCAGCTGTGAAGATGTGTATAGACCCTTCCCTGTGAGTGGTGGGTGATAAACACCCCCATTGTATC
TCTGTGAAGAATGCAGCGAGAGGATTGCAGGGGACCACAGTGAAGTGGCTGATTGATGTTCTTCTGCCACA
AGCTGAAATATCTGCTATATGTCAGAAAAAGAACTGCAGTTCACGTTAGAAGAGCAGTTGTCACCTGC
TTCTCAGCAGGGTGTGTGGTGTGTCAGGAAACAGGCCTGTTCCGTAAGAGGTTGCCACTCAAATC
ATCACAGTAATGAAGTGGGGCCGCTGCGGAGACTCACCTCTATCAGACCTCTCCTCCGCCATCAACAC
GCGGGAATGCGGCGCTGAGGAGCTGGTCTGCGCCGTGGAAGCCGTGATCAGCTTGTGAAAGAAGCCGAG
TTCCATGCTGAGCAGCGAGAACATGAGCTGAACCGCGCGGCAGCTGGTCTCTCCTCTCCACCATT
CCCTGGATAATGCTGACTTTGATAACAAGGACGATGATAGACACGATCAGAGGCTGCTCAGTCAATTCCG
AATATGTTCTTAGTGAGCCTCTGCACACCCAGTGAGAACACGCCTACAGAAAGCTTGGCCCGGCTGGT
GCCATGGTGTTCAGTGGTTTCACTCCACTGCGTATATGATGGATGATGAAGTGGGAAGTCTGGTGGAAA
AGCTGAAGCCTCAGTTTGTACCAAATGGCTGAAGACCGTATGTGATGTTGCTTCCGATGTCATGGTCAT
GTGCCCTTCTTAAACCCATGGAATTTGCCAGGGTGGTGGCTACTGGGATAAGTCTGTAGCACAGT
ACTCAGCTGAAGGAAGTCTCAACCGAATCCTCTGCCTGATCCCTATAATGTGATCAATCAATCTGTCT
GGGAGTGTATTATGCCGGAATGGCTGGAAGCCATCAGAACAGAAGTCCCAGATAATCAGTAAAAGAATT
CAGGGAAGTATAAGCAAATGTTTGACATTGAACTCTGTCTCTGCCTTCTCAATGGAGGAGATGTTT



GGTTTTATTAGTTGTCGGTTTACAGGATACCCCTCCTCTGTGCAGGAGCAAGCTTTACTGTGGCTTCATG
TATTATCGGAGTTAGATATCATGGTTCCACTTCAACTACTAATAAGTATGTTTTCTGATGGAGTTAATTC
AGTCAAAGAGCTGGCAAATCAAAGAAAATCAAGAGTCAGTGAAGTGGCAGGGAACCTTGCATCTCGAAGG
GTGAGTGTTCCTCTGATCTGGCCGACGAGTTACGCACAATATGCTTAGTCCATTTTCATAGTCTTTCC
AGAGTCCGTTTTCGGAGTCTTTGCGTAGTCCGTTTCGTAGCCCTTCAAGAATTTTGACACCCAGGAGG
AAGGACTATTGACTTTGATTGTGAAGATGATGAAATGAATCTAAATGTTTCATCCTCATGTTTGATCTT
CTCCTGAAGCAGATGGAGTTACAAGATGATGGAATCAGATGGGTTTAGAGCACAGCTTATCAAAGGACA
TTATTTCTATTATAAACAATGTCTTCCAAGCCCCCTGGGGGGATCCACACCTGCCAGAAGGACGAAAA
AGCAATCGAGTGAACCTTATGTCAGTCTAGTATCCTCTGTATCAGCTTGCTTGTGAACCTGGAGAGA
CTAGCTCCTAAAGAAGAAAGCCGGCTGGTGGAGCCACAGACAGCCTGGAGGATAGCCTCCTTTCTTCCA
GACCAGAGTTTATCATAGGCCCTGAAGGGGAGGAGGAGAAATCCTGCAAGCAAGCATGGGAGAAACCC
AGGCAACTGCACCAGCCGTGGAACATGCTGCAGTAAAGAATGATACCGAAAGAAAATTTTGTACCAA
CAGCTTCCGGTAAACATTGAGACTAATATATACCATTTCCAGGAAATGGTAAGTTGAAGACCCAGACA
TTCTTTTTAATATGCTCAATTGCCTGAAGATTCTGTCTGCATGGAGAATGTTTATACATTGCCAGAAA
AGATCACCTCAATTTTTAGCCTACATTCAGACCACATGTTGATTGCAAGCCTGTGGAGGTGCTCAA
TCCGAGTTCTCTAGCTGTCTTCCCTGGCAGTCCCTTCTCCTCCATGCCCTGTCACTTCTCATGGTG
CTGACATCTTCTGGACAATCATAAATGGCAATTTCAACAGCAAAGACTGGAAGATGAGGTTTGAAGCAGT
GGAAAAAGTTGCTGTAATTTGTAGATTTCTGGATATTCAGTCAAGTAAACAAAACCACTGCTGAAGTAC
TCCCTGGCACATGCCTTCTGCTGCTTCTGACAGCAGTGGAGGATGTCAACCCCGCAGTGGCTACCAGAG
CTGGTCTCCTGCTTGACACCATAAAGAGGCCAGCATTGCAGGGTCTATGTCTTTGTCTTGACTTCCAGTT
TGATACTGTGGTTAAAGACAGACCCACAATTTTGAGCAAGCTTTTACTCTGCATTTCTTAAGCAGGAT
ATTCTGCTCTGAGCTGGGAGTTCTTTGTCAATAGATTTGAGACGCTTTCTTTGGAAGCCAGCTACATT
TGGATTGAACAAGGAATTTCTTTTCTACAACCACACTGCTGTGAGGACCAATGTTGTAAGCTCAG
CGATGCAGCCTTATGGAAGATCAAGAGAGCTCGCTTTGCAAGAAACCCGCAAGAGTGTACGTTCCCTG
AGGGACAGCGTGAAGGGCCTGTGGAATCCAAGAGGGCGCTCCTCCTCCCTGAGACCCTGACCTCAAAA
TTCGACAACAATCTCCTGAGAATGACAACACCATCAAGGACCTGCTCCGAGAAGACGCTGGGATCGACCA
CCAGACAGTTCACCAGCTGATTACAGTGTCTATGAAGTTCATGGCCAAGGATGAAAGCAGCGCTGAGTCA
GACATCAGCAGTGAAGGCCCTTCAACACGGTCAAGCGACACCTGTACGTCTTACTCGGCTATGACCAGC
AGGAAGGTTGCTTCATGATTGCACCTCAAAAAATGCGCCTGTCAACTTGCTTTAATGCATTCATTGCAGG
AATTGCCCAAGTTATGGACTATAACATTAACCTGGGAAAACACCTTCTCCCCTTAGTGGTTCAGGTGCTC
AAATACTGCTCTTGTCTCAACTCCGGCATTATTTCCAACAGCCGCTCGTTGCTCCCTCTGGTCCCTAA
AGCCTCACATCCGGCAGATGTGGTTGAAGGCCTTGTCTGTCATCCTTTACAAGTATCCATACCGAGACTG
TGATATCAGCAAGATCCTGCTGCATCTGATTACATAACAGTCAATACACTCAATGCGCAGTATCATAGC
TGCAAGCCCCATGCCACGGCAGGACCTTTGTACAGTGACAACAGTAAACATAAGCAGATACAGCGAAAAAG
AAAAAGGTGAAATAGAAGTGGCTGAATATAGAGAGACGGGTGCATTACAAGACAGCCTTCTCCACTGTGT
GAGAGAAGAAAGCATTCCGAAAAAAAAGCTACGCTCTTTCAAACAAAAATCTCTTGATATAGGGAATGCA
GACTCGCTTTTGTACATTAGACGAACATCGTAGGAAGTCGTGCATAGATCGGTGTGACATAGAGAAGC
CTCCGACCCAAGCTGCGTATATCGCACAAAGACCAACGACCTGGACGTTCTAGACAGAAGCTGCTAC
GAGGCTGACAATAGTGAATCCCGGAGAACCCAGCTATGGAAGGGTTTCCAGATGCTCGAAGCCCTGTC
ATACCAGAGTTAGGTTAAACTGTATGGAGACTTTCGAGGTGAAAGTTGACTCGCCGGTAAAGCCTGCTC
CTAAAGAGGATTTAGATCTGATAGATCTATCCTCAGATTAACCTCGGGGCTGAAAAACTCTATACT
CTCAACCTCCGACAGCGACTCTCTTGTATTTGAGCCTCTTCCCCTCTCAGAATAGTCGAGAGTGACGAA
GAAGAGGAGACGATGAACCAAGGCGATGACGGCCCTCCGGTAAAAATGCTGCCTCTTCTCCCTCCATCC
CCAGCCATCCCTCCGTCTCAGCCTGAGCACAGCTCCGCTTGTACAAGTAAAGTGTGGAGGATTGTTCCAA
AGACTTTTCTTAAGGACTCAGGAAATAATCAGTCAGCAGGGAACACTGACTCTGCCCTCATCACTCTG
GAAGACCCTATGGACGCCGAAGGATCCTCAAAGCCAGAGGAGCTGCCAGAGTTCTCCTGCGGTAGCCAC
TGACGCTGAAGCAAAAACGAGACCTCCTCAGAAGTCGTTTGTCTCTCCCGAGATGTCGTTGGATGATCA
CCCTGACCCGGGCACTGAGGGGGAGAAGCCTGGGGAGCTGATGCCAAGTTCAGGGGCAAAAACCGTCCCTC
CTCAAAGTTCGGAAGATGCAGAGAACCCACAGAAAAGTGAAGGCTGATACCAGTGCAGAATCTGATA
CAGAACAGAATCCTGAAAGGAAGGTGGAAGAGGATGGAGCTGAGGAATCCGAATTAAGATTAGATTGT
TCCCAGGCAGAGGAAGCAGAGGAAGATTGCTGTGAGTGTATCCAGAGAGAGTACCTCGACATCTCCTTC
AACATTCTGGACAACCTGGGAGAACAGAAAAGTCCAGATCCTTCTACTAAAGGACTTTCACTTTGGAAA

TGCCACGAGAATCTTCATCTGCCCTACGTTAGATGCAGGTGTGCCGAAACAAGTAGCCATTCCTCAAT
 ATCAACTCAGTATAGGCAGATGAAAAGGGGATCCCTGGGAGTTCTGACAAATGAGCCAGTTAATGAAGCGG
 CAGCTGGAGCATCAGTCTAGCGCCCCCATAACATCAGCAACTGGGACACTGAACAGATACAGCCTGGGA
 AACGCCAGTGTAACTGCCAACATGCCTAAACCCTGACCTGGAGGGACAGCCATTGAGGATGAGAGGTGC
 CACCAAATCCAGCCTGCTATCAGCACCAAGCATAGTCAGTATGTTTGTGCCTGCACCTGAAGAGTTCAC
 GACGAGCAGCCGACGGTATGACGGACAATGCCATGACTGTGGGCCATTCTTGAAGAATACGATGAAG
 AGACACTTGGCTAGCCATCGTGGTCTCTCCACATTCACTTAAGCCCAGACCTGGCAGCCCGCT
 GCTGCTGGATATCATGCAGTCTGTGGGAAGATTGGCATCCAGTACTACCTTTTCTAATCAAGCAGAAAGC
 ATGATGTTCCCGCAATGCGGCGGGGTGGCCAAGCAGTTCTGCGCTGCATCTCCATCAGTTGGCCC
 CCAACGGCATCTCCCGCAGCTGTTCCAAAGCAGCATCAAAGATGGGACTTTTTTACGGACCTTAGCCTC
 GTCTCTGATGGACTTCAATGAGCTGAGCTCCATCGCAGCTCTCAGTCAGCTCCTAGAGGGTCTAAATAAC
 AAAAAGAATTTACCAGCAGGGGGTGTATGATTCGCTGTTTGGAAAACATTGCAACCTTCATGGAAGCTT
 TGCCTATGGATTCTCCTAGTAGCCTCTGGACCACAATTAGCAACCAGTTTCAGACATTTTTTGCAGCT
 GCCTTGTGTTTTACCTCTGAAGTGTCTTTAGATTCCAGTTTAAAGATTATGATTTGCCTCTGAAGATC
 CCTTCTACCAATGCTACAAGGAGTTTGTGGAACCATTTCAAACCTGCTCAGCTTTGTAATTCAGAAATG
 CCGTCTTCACTCTGGCCTACCTGGTGGAGCTGTGTGGCTATGTTACCGAGCTTTCATAAGGAACGAGA
 TAAATTCTACTTGTCTCGTAGTGTGTTCTAGAACTTCTGCAGGCCCTAAAGCTCAAATCTCCTTTACCA
 GATAAAACCTTCTTCTGCTTGTTCAGTTTATTTGTGCAGATGCTGGAACCAAACCTAGCTGAGTCAACAA
 TCCTGAGCAAGCAGATGATAGCCTCTGTACCTGGATGTGGGACTGCAGCGATGGAGTGTGTGAGGCAGTA
 CATCAACGAAGTCTGGATTTATGCGAGACATGCACACGCTGACCAAACCTGAAGAGCCACATGAAGACA
 TGTTCCAGCCTCTGCATGAAGATACCTTTGGGGACATCTCAAAGTGGGGCTGGCCAGATTGCAGCCA
 TGGACATCTCACGGGGCAACCACAGAGATAACAAAGCTGTGATCCGCTATCTGCCTTGGCTTTATCATCC
 CCCCTCTGCAATGCAGCAAGGACCTAAAGAATTCATTGAGTGTGTCTCCATATCCGACTGTTGTCCTGG
 CTGCTGTGGGTTCCCTCACTACAATGCAGTGTGCCAAATGCCTCCTCTCCCTGCCTGCCATTCTCTC
 TGGATGCAGGCTCCACGTTGCAGACCATTATTGTTATCCTGATTGGATTTCCAGAGCAATCAAAGAC
 CTCCGTGCTGCACATGTCTCCCTCTTCCACGCTTCACTTTGCTCAGCTGTGGACAGTTTATTGCGAG
 CAAAGTGCCGTCGCTACAAATCTCCAAAATCAGAAATGAATTCAGCTTACCGGCGATACTGACAGCACTAG
 AATTTTGGAGTAGGGTGACACCCAGCATCCTTCAGCTAATGGCCATAACAAAGTATGGTAGAAATGGT
 GTGTCTCCATGTGATTAGTTAATGGAGGCATTGCAGGAATGCAATTCGACCATTTTTGTCAAGCTGATA
 CCTATGTGGTTGCCAATGATTCAGTCAAATATCAAGCACTTATCTGCGGGACTCCAGCTTCGCTCCAGG
 CTATTGAGAACCGTGAACCACCACAGCCTAAGGACGCTGCCGGCTCGGGCCAGAGCAGTGTGGCCT
 GGCAGCCCTCCGAAAGTGGTTGCAGTGCACCTCAGTTCAAATGGCCAGGTGGAGATCCAGTCTCGGAA
 GCAGCCTCTCAATTTTATCCTCTA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

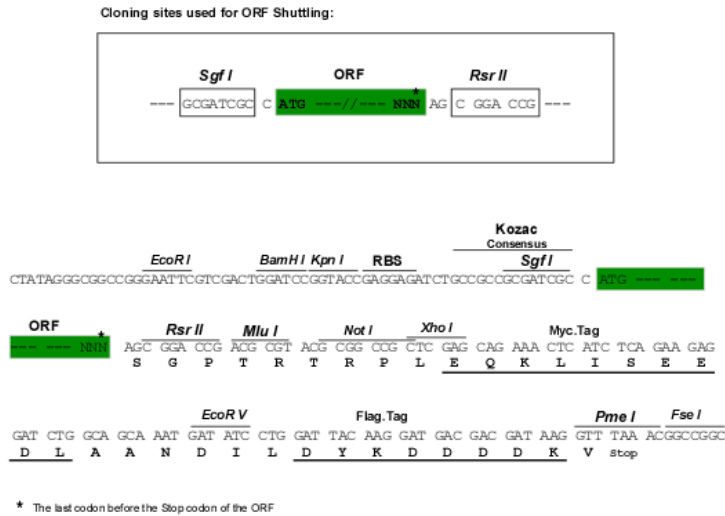
Protein Sequence: >RC222048 representing NM_020818
 Red=Cloning site Green=Tags(s)

MISTLATFPPFLHKDIEIYLSSTFLPMAILGSSRREGVPAHVNL SASSMLMIAMQYTSNPVYHCQLLECL
 MKYKQEVWKDLL YVIAYGPSQVKPPAVQMLFHYWPNLKPPGAISEYRGLQYTAWNPIHCQHIECHNAINK
 PAVKMCIDPSLSVALGDKPPPLYLCEECSERIAGDHSEWLDVLLPQAEISAICQKKNCSHVRRRAVVT
 FSAGCCGRHGPNRPVRYCKRCHSNHHSNEVGAAETHLYQTSPPPINTRECGAEELVCAVEAVISLLKEAF
 FHAEQREHELNRRRQLGLSSSHSLDNADFDNKDDDRHDQRLLSQFGIWFLVSLCTPSENTPTESLARLV
 AMVFQWFHSTAYMMDDEVGSLVEKLPQFVTKWLKTVCDVRFDMVMCLLPKPMEFARVGGYWDKSCSTV
 TQLKEGLNRILCLIPYNVINQSVWECIMPEWLEAIRTEVPDNQLKEFREVLSKMFDIELCPLPFSMEEMF
 GFISCRFTGYPSSVQEALLWLHVLSELDIMVPLQLLISMFDGVNSVKELANQRKSRVSELAGNLSRR
 VSVASDPGRRVQHNLSPFHSPFQSPFRSPLRSPFRSPFKNFHGPGGRTIDFDCEDEMNLNCFILMFDL
 LLKQMEQLQDDGITMGLEHLSKDIISIINN VFQAPWGGSHTCQKDEKAI ECNLCQSSILCYQLACELLER
 LAPKEESRLVEPTDLSLESLSSRPEFIIIGPEGEEENPASKHGENPGNCTEPVEHA AVKNDTERKFCYQ
 QLPVTLRLIYTIQEMAKFEEDILFNMLNCLKILCLHGECLYIARKDHPQFLAYIQDHMLIASLRVVK
 SEFSQLSSLAVPLLLHALSLPHGADIFWTIINGNFNSKDWKMRFEAVEKVAVICRFLDIHSVTKNHLLKY
 SLAHAFCFCFLTAVEDVNP AVATRAGLLLDTIKRPALQGLCLCLDFQFDTVVKDRPTILSKLLLLHFLKQD
 IPALSWEFFVNRFETLSLEAQLHLDCKNEFPPTTITAVRTNVANLSDAALWKIKRARFARNRQKSVRSL
 RDSVKGPVESKRALSPELTSKIRQQSPENDNTIKDLLPEDAGIDHQTVHQLITVLMKFMKDESSAES
 DISSAKAFNTVKRHLVYLLGYDQQEGCFMIAPQKMRSLSTCFNAFIAGIAQVMDYINLKGHLLPLVVQVL
 KYCSCPQLRHYFQQPPRCSLWLSKPHIRQMWL KALLVILYKYPYRDCDISKILLHLIHTVNTLNAQYHS
 CKPHATAGPLYSNDSNISRYSEKEKEI ELAEYRETGALQDSSLHCVREESIPKKLRSFKQKSLDIGNA
 DSLLFTLDEHRRKSCIDRCIDIEKPPPTQAA YIAQRPNDPGRSRQNSATRPDENSEIPENAMEGFDPARRPV
 IPEVRLNCMETFEVKVDSVPKPAKEDLDLIDLSSDSTSGPEKHSILSTSDSDSLVFEPLPPLRIVESDE
 EETMNGDGDGPGSKNAASSPSIPSHPSVLSLSTAPLVQVSVEDCSKDFSSKDSGNNQSAGNTDSALITL
 EDPMDAEGSSKPEELPEFSCGSPLTLKQKRDLLQKSFALPEMSLDDHPDPGTEGEKPGELMPSSGAKTVL
 LKVPEDAENPTESEKPDTSAESDTEQNPERKVEEDGAESEFKIQIVPRQRKQKIAVSAIQREYLDISF
 NILDKLGEQKDPDPSTKGLSTLEMPRESSAPTLDAGVPETSSHSSI STQYRQMKRGSGLVLTMSQLMKR
 QLEHQSSAPHNINSNWDTEQIQPKRQC NVPTCLNPDLEGQPLMRGATKSSLLSAPSIVSMFVPAPEEFT
 DEQPTVMTDKCHDCGAIL EYDEETLGLAIVVLSF IHLSPDLAAPLLLDIMQSVGRLASSTTFSNQAES
 MMVPGNAAGVAKQFLRCIFHQLAPNGIFPQLFQSTIKDGTFLRTLASSLMDFNELSSIAALSQLEGLNN
 KKNLPAGGAMIRCLENIATFMEALPMDSPSSLWTTISNQFQTFFAKLPCVLPKCSLDSSLRIMICLLKI
 PSTNATRSLLEPFSKLLSFVIQNAVFTLAYLVELCGLCYRAFTKERDKFYLRSRVVLELLQALKKSPLP
 DTNLLLLVQFICADAGTKLAESTILSKQMIASVPGCGTAAMECVRQYINEVLD FDMAMHTLTKLKS HKMT
 CSQPLHEDTFGGHLKVGLAQIAAMDISRGNHRDNKAVIRYLPWL YHPPSAMQQGPKFIECVSHIRLLSW
 LLLGSLTHNAVCPNASSPCLPIPLDAGSHVADHLIVILIGFPEQSKT SVLHMCSLFHAFIFAQLWTVYCE
 QSAVATNLQNQNEFSFTAILTALEFWSRVTPSILQLMAHNKVMVEMVCLHVISLMEALQECNSTIFVKLI
 PMWLPMIQSNIKHL SAGLQLRLQAIQNHVNHSLRTLPGSGQSSAGLAALRKWLQCTQFKMAQVEIQSSE
 AASQFYPL

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_c09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:


ACCN: NM_020818

ORF Size: 7374 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_020818.2](#), [NP_065869.2](#)

RefSeq Size: 8471 bp

RefSeq ORF: 7377 bp

Locus ID: 57578

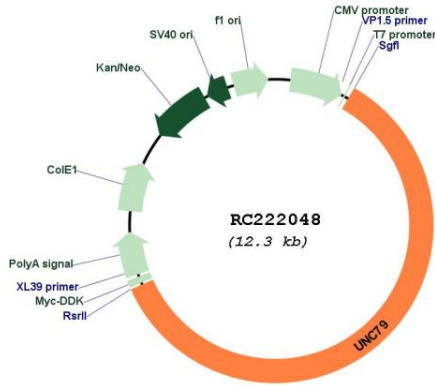
UniProt ID: [Q9P2D8](#)

Cytogenetics: 14q32.12

MW: 275.3 kDa

Gene Summary: The NALCN channel is responsible for Na(+) leak currents. The protein encoded by this gene, along with UNC80, is an accessory subunit of the NALCN channel that contributes to the Ca(2+) sensitivity of the channel. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC222048