

Product datasheet for **RC228458**

hnRNP Q (SYNCRIP) (NM_001159677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP Q (SYNCRIP) (NM_001159677) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hnRNP Q
Synonyms:	GRY-RBP; GRYRBP; hnRNP-Q; HNRNPQ; HNRPQ1; NSAP1; PP68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228458 representing NM_001159677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTACAGAACATGTTAATGGAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATT
 CAGAAAATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTA
 CGTTGCAGGGCTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAAGAATTCAATGAA
 GACGGTGCATTGGCAGTTCCTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAGAACAAAAGTGCCT
 TTTTATGTGGAGTCATGAAGACTTACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAA
 AGGACCAGATGAGGCAAAAATTAAGGCACTCTTGGAAAGAACAGGCTACACACTTGATGTGACCACTGGA
 CAGAGGAAGTATGGAGGACCCTCCAGATTCCGTTTATTCAGGTCAGCAGCCTTCTGTTGGCACTGAGA
 TATTTGTGGGAAAGATCCAAGAGATCTATTTGAGGATGAACTTGTCCATTATTTGAGAAAGCTGGACC
 TATATGGGATCTTCGTCTAATGATGGATCCACTACTGGTCTCAATAGAGTTATGCGTTTGTCACTTTT
 TGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAATCATGAAATTCGTTCTGGAAAACATA
 TTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATTCTAAGAGTAAAACCAAGGA
 ACAGATTTCTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTATACCACCAACCGGAT
 GACAAGAAAAAACAGAGGCTTTTGTCTTCTTGAATAGAAGATCACAAAACAGCTGCCAGGCAAGGC
 GTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGAAATGTTGGAAGTGTGAATGGGCTGATCCTATAGA
 AGATCCTGATCCTGAGGTTATGGCAAAGGTAAGTGTGTTGTACGCAACCTGCCAATACTGTAAACA
 GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATG
 CGTTCATTCATTTTGTAGCAGCAGATGGTGTCTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGG
 GGGAGAAAATTTGAAATTTGTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAAGAAAGCTCAGAGG
 CAAGCAGCAAAAATCAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAA
 GAGGTCGAGGGCTGGAGGTAGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTA
 TGATTATTATGGTTATGATTACCATAACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGAT
 TTTCAAGTTGGAGCTAGAGGAAGGGTGGTAGAGGAGCAAGGGTGTCTCCATCCAGAGGTCGTGGGG
 CTGCTCCTCCCCGCGGTAGAGCCGTTATTCACAGAGAGGAGTCTGGATCAGCAAGAGGCGTTCGAGG
 TGCGAGAGGAGGTGCCAACAAACAAAGAGGCCCGGGCAGGAAAAGGGTTCGAGGCCGCTCCTGACCTG
 TTACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228458 representing NM_001159677
 Red=Cloning site Green=Tags(s)

MATEHVNGNGTEEPMDTTSAVIHSENFQTLLDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNE
 DGALAVLQQFKDSDLSHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTLDVTTG
 QRKYGGPPPSVYSGQQPSVGTIEFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRGYAFVTF
 CTKEAAQEAVKLYNNHEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEFKSVTEGLTDVILYHQP
 DKKKNRGCFLYEDHKTAAQARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMKVKVLFVRLNANTVT
 EEILEKAFSQFGKLERVKKLDYAFIHFDERDGAVKAMEEMNGKLEGENIEIVFAKPPDQKRKERKAQR
 QAAKNQMYDDYYPHPPPTTRGRGRGGYGYPPDYGYEDYDYDYDHYHNYRGGYEDPYGYED
 FQVGARGRGRGARGAAPSRGRGAAPPRGRAGYSQRGGPGSARGVRGARGGAQQQRGRGQKQKVEAGPDL
 LQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_d10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001159677

ORF Size: 1686 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_001159677.2](#)

RefSeq ORF: 1689 bp

Locus ID: 10492

UniProt ID: [O60506](#)

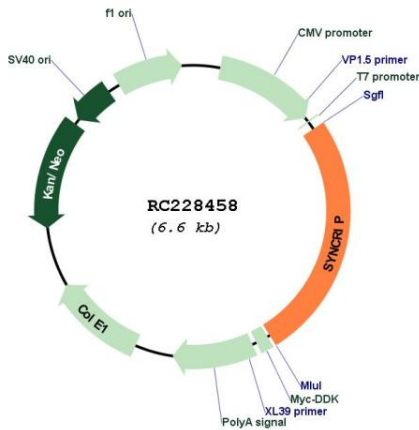
Cytogenetics: 6q14.3

Protein Families: Stem cell - Pluripotency

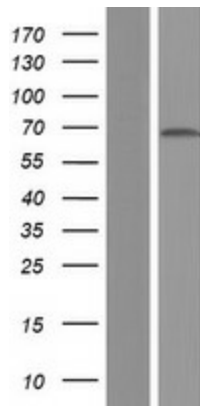
MW: 62.5 kDa

Gene Summary: This gene encodes a member of the cellular heterogeneous nuclear ribonucleoprotein (hnRNP) family. hnRNPs are RNA binding proteins that complex with heterogeneous nuclear RNA (hnRNA) and regulate alternative splicing, polyadenylation, and other aspects of mRNA metabolism and transport. The encoded protein plays a role in multiple aspects of mRNA maturation and is associated with several multiprotein complexes including the apoB RNA editing-complex and survival of motor neurons (SMN) complex. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 20. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC228458



Western blot validation of overexpression lysate (Cat# [LY431486]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228458 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).