

## Product datasheet for RC215249

### SCN2A (NM\_001040142) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCN2A (NM_001040142) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCN2A
Synonyms:	BFIC3; BFIS3; BFNIS; DEE11; EA9; EIEE11; HBA; HBSCI; HBSCII; Na(v)1.2; NAC2; Nav1.2; SCN2A1; SCN2A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215249 representing NM_001040142 Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

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CTATTGAACAACGCATTGCAGAAGAGAAAGCTAAGAGACCCAAACAGGAACGCAAGGATGAGGATGATGA  
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CCAGAGATGGTGTGTCAGTGCCCTGGAGGATCTGGACCCCTACTATATCAATAAGAAAACGTTTATAGTAT  
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ATCTGCTGAATCAAGAGACTTCAGTGGTCTGGTGGGATAGGAGTTTTTTCAGAGAGTTCTTCAGTAGCA  
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 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:**

>RC215249 representing NM\_001040142  
 Red=Cloning site Green=Tags(s)

MAQSVLVPPGPDSEFRFFTTRESLAAIEQRIAEKAKRPKQERKDEDDENGPKPNSDLEAGKSLPFIYGDIP  
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 TNCVFMMSNPPDWTKNVEYFTFGIYTFESLIKILARGFCLEDFTLRDPWNWLDFTVITFAVYVTEFVDL  
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 VCKISNDCELPRWHMHDFHFSFLIVFRVLCGEWIETMWDCEVAGQTMCLTVFMMVMVIGNLVVLNLF  
 LLLSSFSSDNLAAATDDDNEMNQLIAGVGRMKGIDFVKRKIREFIQKAFVRKQKALDEIKPLEDLNKKD  
 SCISNHTTIEIGKDLNLYKDGNGTTSIGSSVEKYVVDSDYMSFINNPSLTVTVPIAVGESDFENLNTE  
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 VKVNFNDVNLGYLSLLQVATFKGWMDIMYAAVDSRNLQPKYEDNLYMYLYFVIFIFIIFGSFFTLNLF  
 VIIDNFNQKKKFGGQDIFMTEEQKKYNNAMKLGSKPKQKPIPRANKFQGMVDFVTKQVFDISIMIL  
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 EKTDMTPSTTSPPSYDSVTKPEKEKFEKDKSEKEDKGDIRESKK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



**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\\_001040142.2](#)

**RefSeq Size:** 8810 bp

**RefSeq ORF:** 6018 bp

**Locus ID:** 6326

**UniProt ID:** [Q99250](#)

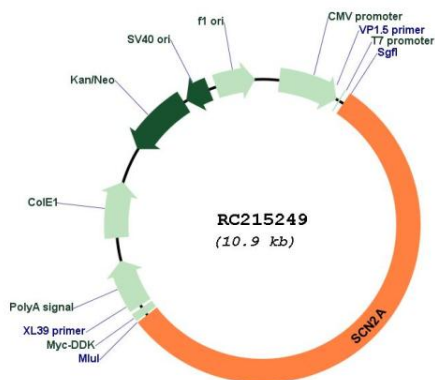
**Cytogenetics:** 2q24.3

**Protein Families:** Druggable Genome, Ion Channels: Sodium, Transmembrane

**MW:** 228 kDa

**Gene Summary:** Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit with four repeat domains, each of which is composed of six membrane-spanning segments, and one or more regulatory beta subunits. Voltage-gated sodium channels function in the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel alpha subunit gene family. Allelic variants of this gene are associated with seizure disorders and autism spectrum disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]

### Product images:



Circular map for RC215249