

Product datasheet for **RR210928**

Sesn2 (NM_001109358) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sesn2 (NM_001109358) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sesn2
Synonyms:	RGD1566319
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210928 representing NM_001109358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATCGTAGCCGACTCCGAGTGCCATGGGGAGATCAAGGGCTACCTGCCGTTACCAGGGCGGGTGTGG
 CCGGCCCCGGGACCCGAGAGGAGCATCGGGAGGGCCAGGCGGGCAGGCCCTCGAGGACCCAGCGCCTT
 CATCCCAGTGGAGGAGATCCTTCGGGAAGGAGCTGAGAGCCTGGAGCAGCACCTGGGGCTCGAGGCTCTG
 ATGTCTTCAGGGCGGGTGGACAACCTGGCGGTGGTATGGGCCTACACCCGACTACCTAGCAGCTTCT
 GGCGCCTCCACTACCTGCTGCTGCACACGGATGGGCCCTGGCCAGCTCCTGGCGCCACTACATTGCCAT
 CATGGCTGCTGCCGCCACCACTGTTCTTACCTGGTGGGTTCCACATGACCCGAGTTCCTGCAGACCGGC
 GGTGACCCCGAGTGGCTGCTGGGCTCCATCGCGCCCCTGAAAAGCTCCGCAAGCTCAGCGAGATCAACA
 AATTACTGGCACATCGGCATGGCTTATACCAAGGAGCATATTCAGGCCTTGCTGAAGACTGGAGAGCA
 CAGCTGGTCCCTGGCTGAGCTCATCCAAGCGCTGGTCTGCTCACCCACTGCCACTGTCTGGCCTCCTTT
 GTGTTTGGCTGTGGGATACTTCTGAGGGAGACGCTGAGGGCAGCCCTGCCTCACAGGCACCTTCGCCAC
 CCAAGTGAAGCAAGGCGGCCCCCAAGCAGAGACCCATTGAACAACCTCGGGGGGCTTTGAAGCCGCCGTGA
 CATAGAAGCTCTGATGGAACGCATGAGGCAGCTTCAGGAGAGCCTCCTGCGGGATGAGGGGGCTTCCAG
 GAGGAAATGGAGAACCGTTTTGAGCTGGAGAAGACGGAAGCCTGCTGGTGACCCCTCAGCGGATATTC
 TGGAGCCCTCTCCACACCAGACATCCTATGCTTTGTAGAGGACCCACGTTTGGATATGAAGACTTAC
 TCGTCGAGGGACTCAGGCCCCCAACCTTTCTGCCCCAGGATTATACCTGGGAAGACCTAGGCTACTCG
 CTGATCCAGCGGCTTACCCCGAGGGAGGGCAGCTGCTGGATGAGAAGTTTCAGGTAGCCTACAGCCTCA
 CCTATAACACCATCGCCATGCACAGTGGGTAGACACCTCCATGCTCCGAGAGCCGCTGGAAGCTACAT
 CCACTGCGCTCTTTGGTATCAGATATGATGACTATGATTATGGAGAGGTAACACAGCTCCTGGAAAGGAAC
 CTAAGATCTATATCAAGACGGTTGCTGCTACCCGAGAAGACGACCCGAGAATGTACAACTCTTTT
 GGAGGCACTTCCGCCACTCAGAGAAGGTTACGTGAACCTGCTGCTCCTCGAAGCCCGCATGCAAGCAGC
 TTTGCTCTATGCCCTCCGCGCCATACCCGCTACATGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210928 representing NM_001109358
 Red=Cloning site Green=Tags(s)

MIVADSECHGEIKGYLPFTRGGVAGPGTREEHREGQARRGPRGPSAFIPVEEILREGAESLEQHLGLEAL
 MSSGRVDNLAVVMGLHPDYLSFFWRLHYLLHLDGPLASSWRHYIAIMAAARHQCSYLVGSHMTEFLQTG
 GDPEWLLGLHRAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTEHSWSLAELIQALVLLTHCHCLASF
 VFGCGILPEGDAEGSPASQAPSPPEQGGPPSRDPLNNSGGFEAARDIEALMERMRQLQESLLRDEGASQ
 EEMENRFELEKTESLLVTPSADILEPSHPDILCFVEDPTFGYEDFTRRGTAAPPTFRAQDYTWEDHGYS
 LIQRLYPEGGQLLDEKFQVAYSLTYNTIAMHSGVDTSMRLRAVWNYIHCVFIRYDDYDYGEVNQLLERN
 LKIYIKTVACYPEKTRRMYNLFWRHFRHSEKVVHVNLLLLLEARMQAALLYALRAITRYMT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001109358

ORF Size: 1440 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](#)

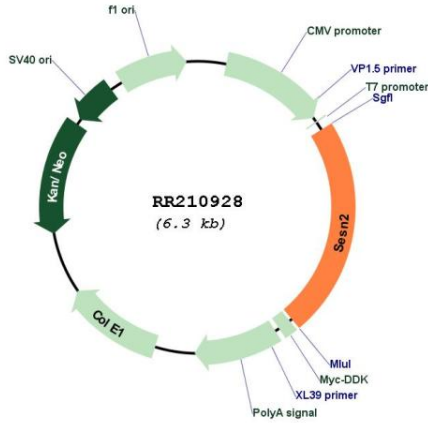
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001109358.2](#), [NP_001102828.1](#)
 RefSeq Size: 2723 bp
 RefSeq ORF: 1443 bp
 Locus ID: 502988
 Cytogenetics: 5q36
 MW: 54.5 kDa

Product images:



Circular map for RR210928