

Product datasheet for **MR220914**

Sesn3 (NM_030261) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sesn3 (NM_030261) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sesn3
Synonyms:	5630400E15Rik; BC003348; SEST3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR220914 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCGCGGTGGCAGCAGCGCGTCGGCTCGGCCAACTACCTGCTCTGCACCAACTGCCGAAAGTGC
 TGGCGAAGGACAAAAGAATCCGAGTGTCTCAACCCTGACAAGAGGACCAAGTGCTTTATTCCAGAGAA
 GGAAGTTGTCCAAGCAAATACGGCGGATGAACGAACAACTTTCTTGTGGAAGAGTACTCTACATCCGGT
 CGCCTGGACAACATCACACAGGTGATGAGCTTGACACTCAGTACCTGGAATCTTTCTTGGGAGCCAGT
 TCTACATGCTGCGTATGGACGGCCCCCTCCCTCCCAGACAGGCACTACATTGCCATCATGGCTGCAGC
 CAGACACCAGTGTTCCTACCTAATAACATGCATGTGGATGAATTTTTAAAGACTGGAGGGATCGCTGAG
 TGGCTGAATGGCTTGAATATGTACCACAAAGACTGAGAAATCTTAATGAAATTAACAAGCTGCTGGCAC
 ACCGGCCCTGGCTGATCAGAAAAGACACATTCAGAACTTGCAAACTGGAGAAAATAATTGGTCCCT
 GCCTGAGCTAGTGACCGCGTGGTCTCTTGGCTCACTATCACGCTTTGGCCAGCTTTGTTTTGGTAGT
 GGCATCAATCCAGAGAGAGACCCAGGAATCGCCAATGGGTTGAGACTAATCTCTGTGAGCAGCTTCTGTG
 TGTGTGACCTGGCCAATGACAACAGCATCGAGAACACCTCCCTGGCGGGCAGCAACTTTGGGATTGTGGA
 TTCCCTAGGCGAGCTGGAAGCCTTAATGGAAAGGATGAAAAGGCTTCAGGAAGACAGGGAAGATGACGAG
 ACCACTCGGGAAGAAATGACCACGCGTTTTGAGAAGGAAAAGAAAGTCTCTTTGTGGTCCCTGGAG
 AAATTTACATGCGTTTTCTCACTCAGATTTTGAAGATGATGTGATTGTAAACAGCCGATGTCTCTCGATA
 CATTGAAGACCAAGCTTTGGGTACGAAGACTTGGCAGGCGAGGAGAAGAACATTTGCCAACATTCCGA
 GCCCAGGACTACACCTGGGAAAACCATGGTCTCACTGGTGAACAGGCTTTACTCTGACATTGGACATC
 TCCTGGATGAGAAGTTTGAATGGTCTACAATCACTACACACAATGGCCACCCATGAGGATGTTGA
 CACGACCACACTGCGCAGAGCTTTGTTAACTATGTTCACTGTATGTTTGAATCAGGTATGATGACTAT
 GACTATGGAGAAGTTAACAGTTACTTGAACGGAGCCTGAAGTTTACATCAAGACAGTACCTGCTACC
 CTGAGAGAACCACGAAGCGCATGTATGACAGCTACTGGCGCCAGTTCACTCACTCAGAGAAGGTCCACGT
 GAATCTGCTTCTGATGGAAGCACGGATGCAGGCCGAGCTGCTTTATGCTCTGCGAGCCATAACTCGGCAT
 CTGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220914 protein sequence
 Red=Cloning site Green=Tags(s)

MNRGGSSASASANYLLCTNCRKVLKDKRIRVSQPLTRGPSAFIPEKEVVQANTADERTNFLVEEYSTSG
 RLDNITQVMSLHTQYLESFLRSQFYMLRMDGPLPLPDRHYIAIMAAARHQCSYLINMHVDEFKTTGGIAE
 WLNGLLEYVPQRLRNLNEINKLLAHRPWLITKEHIQKLVKTGENNWSLPELVHAVVLLAHYHALASFVFGS
 GINPERDPGIANGFRLISVSSFCVCDLANDNSIENTSLAGSNFGIVDSLGELEALMERMKRLQEDREDDE
 TTREEMTTRFEKEKESLFFVVPGETLHAFPHSDFEDDVIPTADVSRVIEDPSFGYEDFARRGEEHLPTFR
 AQDYTWENHGFSLVNRLYSDIGHLLDEKFRMVYNLTNTMATHEDVDTTLRRALFNVYHCFMFGIRYDDY
 DYGEVNLQLLERSLKVIKVTVCYPERTTKRMYDSYWRQFTHSEKVHVNLLLMEARMQAELLYALRAITRH
 LT

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_030261

ORF Size: 1479 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_030261.4](#), [NP_084537.2](#)

RefSeq Size: 2158 bp

RefSeq ORF: 1479 bp

Locus ID: 75747

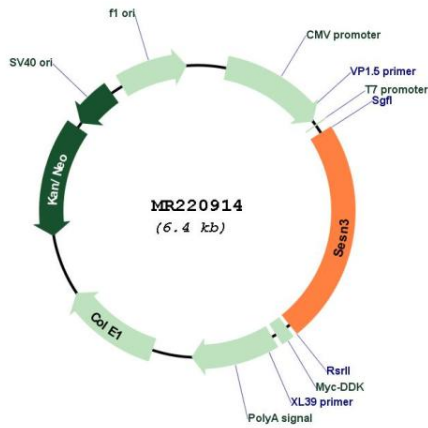
UniProt ID: [Q9CYP7](#)

Cytogenetics: 9 A1

MW: 57 kDa

Gene Summary: May function as an intracellular leucine sensor that negatively regulates the TORC1 signaling pathway (PubMed:25259925). May also regulate the insulin-receptor signaling pathway through activation of TORC2 (PubMed:25377878). This metabolic regulator may also play a role in protection against oxidative and genotoxic stresses (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220914