

Product datasheet for **RN214645**

Gskip (NM_001014198) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gskip (NM_001014198) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gskip
Synonyms:	RGD1308470
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214645 representing NM_001014198 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGCTCGCAGAATGGAAACAGACTGTAATCCCGTGGATCTAAGCAGTATGTCTGGATTCGAAGAAG
GCTCCGAGCTCAACGGGTTTGAAGGAACAGATGAAGGACATGCAGCTGGAGGCTGAGGCCGTTGTCAA
TGACGTTCTCTTTGCTGTCAACAACATGTTTGTCTCAAAAAGCCTGCCCTGTGCAGACGATGTGGCTTAC
ATCAATGTGGAGACAAAGGAAAGAAACAGATACTGCCTGGAGCTCACAGAAGCAGGGCTCAGGGTGGTGG
GCTATGCTTTTGACCAGGTGGAGGACATTTGCAAACCCCTACCATGAGACAGTCTACTCCCTGTTGGA
TACGCTCAGCCCTGCCTACCGGGAAGCATTGGAAATGCTCTCCTTCAGAGACTGGAAGCTTTGAAACGA
GATGGACAGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001014198
Insert Size:	435 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<ol style="list-style-type: none">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:	<u>NM_001014198.2</u> , <u>NP_001014220.2</u>
RefSeq Size:	1629 bp
RefSeq ORF:	435 bp
Locus ID:	362778
UniProt ID:	<u>Q5PPI3</u>
Cytogenetics:	6q32
Gene Summary:	A-kinase anchoring protein for GSK3B and PKA that regulates or facilitates their kinase activity towards their targets. The ternary complex enhances Wnt-induced signaling by facilitating the GSK3B- and PKA-induced phosphorylation of beta-catenin leading to beta-catenin degradation and stabilization respectively. Upon cAMP activation, the ternary complex contributes to neuroprotection against oxidative stress-induced apoptosis by facilitating the PKA-induced phosphorylation of DML1 and PKA-induced inactivation of GSK3B. During neurite outgrowth promotes neuron proliferation; while increases beta-catenin-induced transcriptional activity through GSK3B kinase activity inhibition, reduces N-cadherin level to promote cell cycle progression (By similarity). May play a role in cleft palate formation and is required for postnatal life through modulation of the activity of GSK3B during development (By similarity).[UniProtKB/Swiss-Prot Function]