

## Product datasheet for **RG227540**

### **mSin3A (SIN3A) (NM\_001145357) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	mSin3A (SIN3A) (NM_001145357) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIN3A
Synonyms:	WITKOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227540 representing NM_001145357 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGCGTTTGGATGACCAGGAGTCACCGGTGTATGCAGCCAGCAGCGTCGGATCCCTGGCAGCA  
CAGAGGCTTTTCCTCACCAGCACCGGTGCTTGCCCTGCCCTCCTGTGTATGAAGCAGTGTCTGAGAC  
CATGCAGTCAGCTACGGGAATTCAGTACTCTGTAACACCCAGCTACCAGGTTTCAGCCATGCCACAGAGC  
TCCGGCAGTCATGGGCCGCTATAGCAGCAGTTCATAGCAGCCATCATCACCCAACAGCGGTGCAGCCCC  
ACGGAGGCCAGGTGGTCCAGAGTCATGCTCATCCAGCCCCACCAGTTGCACCAGTGCAGGGACAGCAGCA  
ATTTTCAGAGGCTGAAGGTGGAGGATGCGCTATCTTATCTTGACCAGGTGAAGCTGCAGTTTGGTAGTCAG  
CCTCAGGTCTACAATGATTTTCCTTGACATCATGAAGGAATTTAAATCTCAGAGCATCGACACCCCAAGGAG  
TGATTAGTCGTGTGCCAGCTATTTCAAAGGCCACCCCGATCTGATAATGGGATTC AACACCTTCTTGCC  
CCCTGGCTACAAAATTGAGGTGCAAACCAATGACATGGTGAATGTGACAACTCCTGGCCAGGTTTCATCAG  
ATTTCCACCCATGGCATCCAGCCACAGCCTCAACCACCACCCCAACATCCTTCCAGCCTTCAGCCCAGT  
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CCAGCATTGACAGAGCAGGAGGTGTATGCCAGGTTGCTCGTCTCTTTAAAAACCAGGAAGATTTGTTGT  
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TGATAAGTCCGAAAGGCTCTTCGGAGTGCAGAAGCCTACGAAAATTTCTACGCTGCTTGTATTTTT



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AACCAGGAGGTGATCTCTCGTGCTGAGCTTGTCACACTAGTCTCTCCTTTCTGGGAAATTCCTGAGT  
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AAGTATCGTGTCAAATACGGCACAGTATTCAAAGCCCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227540 representing NM\_001145357  
 Red=Cloning site Green=Tags(s)

MKRRLDDQESPVYAAQRRIPGSTEAFPHQHRVLAPAPPVYEAVSETMQSATGIQYSVTPSYQVSAMPQS  
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 PQVYNDFLDIMKEFKSQSIDTPGVISRVSQ LFKGHPDLIMGFNTFLPPGYKIEVQTNDMVNVTTTGGVHQ  
 IPTHG IQPQPQPPQHPSPQSAQSAPAPAQAPQPPPAKVSKPSQLQAHTPASQQTPLPPYASPRSPV  
 QPHTPVTISLGTAPSLQNNQPVFNFHAINVYVNIKNRFQGPDIYKAFLEILHTYQKEQRNAKEAGGNYT  
 PALTEQEYVAQVARLFKNQEDLLSEFGQFLPDANSSVLLSKTTAEKVDSVRNDHGGTVKKPQLNNKPQRP  
 SQNGCQIRRHPTGTPPVKPKKLLNLKSSMADASKHGGTESLFFDKVRKALRS AEAYENFLRCLVIF  
 NQEVISRAELVQLVSPFLGKPELFWFNFLGYKESVHLETYPKERATEGIAMEIDYASCKRLGSSYRA  
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 RVLEAIQKKLSRLSAEEQAKFRDNTLGGTSEVIHRKALQRIYADKAADIIDGLRKNPSIAVPIVLKRLK  
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 VPVGPLSLAYEDKQILEDAALIIHHVQRQTGIQKEDKYKIKQIMHHFIPDLLFAQRGDLSDVEEEEE  
 EMDVDEATGAVKKHNGVGGSPKSKLLFSNTAAQKLRGMDEVYNYLFYVNNWYIFMRLHQILCLRLLRIC  
 SQAERQIEEENREREWEREVLGIKRDKSDPAIQRLRKEPMDVDVVEDYPAFLDMVRSLLDGNIDSSQYE  
 DSLREMFTHAYIAFTMDKLIQSIVRQLQHIVSDEICVQVTDLYLAENNGATGGQLNTQNSRSLLESTY  
 QRKAEQLMSDENCFLMFIQSQQVQLTIELLDTEEENSDDPVEAERWSDYVERYMNSDTSPELREHLA  
 QKPVFLPRLRRIRKCRQREGREQEKEGKGNKSKTMENVDSLDKLECRFKLNSYKMVYIKSEDYMYRRT  
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 KYRVKYGTVFKAP

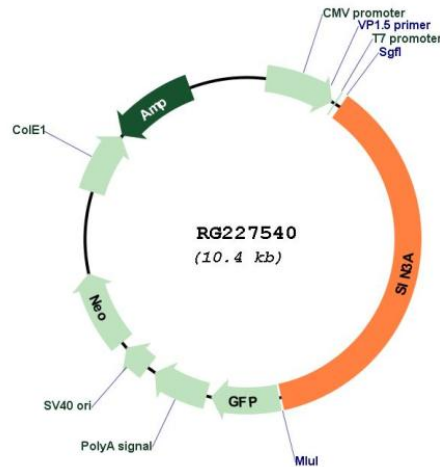
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001145357

**ORF Size:** 3819 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\\_001145357.2](#)

**RefSeq Size:** 6620 bp

**RefSeq ORF:** 3822 bp

**Locus ID:** 25942

**UniProt ID:** [Q96ST3](#)

**Cytogenetics:** 15q24.2

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Huntington's disease

**Gene Summary:** The protein encoded by this gene is a transcriptional regulatory protein. It contains paired amphipathic helix (PAH) domains, which are important for protein-protein interactions and may mediate repression by the Mad-Max complex. [provided by RefSeq, Jul 2008]