

Product datasheet for **MG207426**

Sil1 (NM_030749) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sil1 (NM_030749) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sil1
Synonyms:	1810057E01Rik; AI042831; wz
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207426 representing NM_030749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCCTCAGCACCTGCCTTCAACTAGGATGGCTCTCCAGGAATGCTGCTGGGGCTGCTGTTGACTT
 CCTGTTTAACTCTGCCTCAGCTGTCAGAACTCAAATAATTTTGCACCTACCAACCCAGAGAAGAGCAT
 CCACCAGGAATCAGATACAAAGGAGACAGGGAAGAGGAGGAGCTAGACACCGAGATCCTGGAGGTGTTCC
 CACCCAACCAAGAGTGGCAGACCCCTTCAACCAGGTGAGGCTGTTCTGCAGGATCCCATGTGCGAATGA
 ACCTACAGACTGGAGTAAACGAGGTGAAGCTCCAACAAGAAGACAAATTTCAAAAATCTGAAAGGATT
 TAAAAGAGGCAGAAGGCTGGACATCAACGCCAACACATACACATCTCAGGACCTCAAGAGTGCCTGGCC
 AAATTCAGGAGGGGACCGAGATGGAGAATTCAAAGGATGAAGTGGCAGACAGGCCACAGTCAAGCAGC
 TCTTCCGCCCATTGAGGAGCTGAAGAAGGAATTTGATGAGCTGAACGTTGTTCTTGAGACTGACATGCA
 GATTATGGTTCGGCTGATAAACAAGTTCACAGCTCCAGCTCCAGCCTAGAAGAGAAGGTTGCTGCGCTC
 TTTGATCTTGAGTACTATGTCCATCAGATGGATAACGCACAGGACCTGCTGTCTTTGGTGGCCTTCAAG
 TGGTGATTAATGGGCTCAACAGCACAGAACCCTGGTGAAGGAGTATGCTGCTTTTGTGCTGGGGCCGC
 CTTTTCCAGCAATCCGAAGTCCAGGTGGAAGCCATCGAAGGGGAGCCCTGCAGAAGCTGCTGGTCATC
 CTGGCCACAAACCAGCCTCTCCCGCCAAGAAGGTCCTGTTGCACTGTGCTCCCTGCTGCGCCACT
 TCCCCTATGCCAGCAGCAGTTCCTGAAGCTCGGGGCCCTGCAGGTCTCAGGAGCTGGTACAGGAGAA
 GAGTGCAGAGGTACTGGCCGTGCGTGTGGTCACCTGCTCTATGACCTGGTCACTGAGAAGATGTTGCT
 GAGGAGGAGGCAGAGTTGACCCAGGATTCATCCCAGAGAAGCTGCAGCAGTATCGCCAGGTGCAGCTCC
 TGCCAGGCCTGCAGGAACAGGTTGGTGTGAGATCACCGCCAGCTCCTGGCCCTCCAGAGCATGATGC
 TCGGGAGAAGGTGCTGCAGACACTGGGTGCCCTCCTGACCACCTGCCGGGATCGCTACCGTCAAGGACCTC
 CAGTTGAGCAGGACACTAGGCGCTCTCCAAGCAGAGTACCAAGCCCTGGCCTCCCTGGAGCTCCAAGAAG
 GCGAAGATGATGGCTACTTCGGGAAGTCTGGCTCCATCAACAGCTTGATGAAGGAACCTAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207426 representing NM_030749
 Red=Cloning site Green=Tags(s)

MAPQHLPSTRMASPGMLLGLLLTSCLTCLSCQNSNNFALTNPEKSIHQESDTKETREEEELDTEILEVF
 HPTQEWQTLQPGQAVPAGSHVRMNLQTVNEVKLQEDKFQNNLKGFKRGRRLDINANTYTSQDLKSALA
 KFKEGTEMENSKDELARQATVKQLFRPIEELKKEFDELNVVLETDQMIMVRLINKFNSSSSSLEEKVAAL
 FDLEYYVHQMDNAQDLLSFGGLQVVINGLNSTEPVKEYAAFVLGAFFSSNPKVQVEAIEGGALQKLLVI
 LATNQPLPAKKKVLFALCSLLRHFPYAQQQFLKLGGLQVLRSLVQEKSATVLA VRVVTLTYDLVTEKMF
 EEEAELTQDSSPEKLQQYRQVQLLPGLQEQGWCEITAQLLALPEHDAREKVLQTLGALLTTCRDRYRQDL
 QLSRTLGRQLAEYQALASLELQEGEDDGYFRELLASINSLMKELR

TRTRPLE - GFP Tag - V

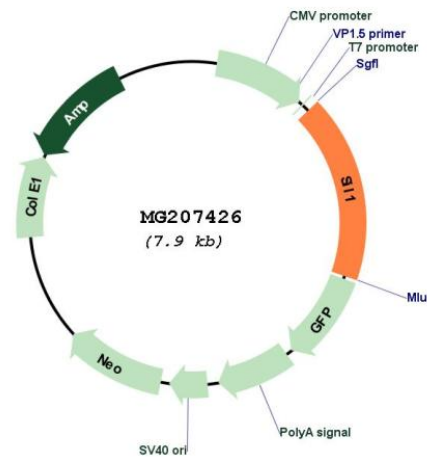
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030749

ORF Size: 1395 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:	<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_030749.2</u> , <u>NP_109674.2</u>
RefSeq Size:	1715 bp
RefSeq ORF:	1398 bp
Locus ID:	81500
UniProt ID:	<u>Q9EPK6</u>
Cytogenetics:	18 B1-B2
Gene Summary:	Required for protein translocation and folding in the endoplasmic reticulum (ER). Functions as a nucleotide exchange factor for the ER luminal chaperone HSPA5 (By similarity). [UniProtKB/Swiss-Prot Function]