

Product datasheet for **MG206338**

Sec14I2 (NM_144520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec14I2 (NM_144520) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec14I2
Synonyms:	1300013M05Rik; Spf; TAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206338 representing NM_144520 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGCAGAGTCGGTGACCTGAGCCCCAACAGGAGGAGGCACTGGCCAAGTCCGAGAAAATGTTC
AGGACGTGCTGCCACCCTGCCAATCCAGATGACTACTTCCTCCTTCGATGGCTCCGAGCCGAAGCTT
TGACCTGCAGAAGTCAGAGGCCATGCTCCGAAAGCATGTGGAATCCGGAAGCAAAGGACATTGACAAA
ATCATCAGCTGGCAGCCACCAGAGGTGATCCAACAGTATCTGTCAGGCGGCAGATGTGGCTACGACTTGG
ACGGCTGCCCTGTCTGGTACGACATCATTGGCCCTCTGGATGCCAAAGGTCTGCTGTTCTCCGCCTCAA
GCAGGACCTGCTCAGGACCAAGATGAGAGACTGTGAGCTGCTTCTGCAGGAGTGTATCCAGCAGACCACA
AAGCTAGGGAAGAAGATAGAGACCATCACCATGATTTATGACTGTGAAGGACTCGGCCTCAAGCACCTCT
GGAAACCTGCAGTGGAGGCCATAGGAGAGTTTCTCACCATGTTTGAAGAAAATTATCCTGAAACACTGAA
GCGTCTGTTTGTGTTAAAGCTCCCAAGCTGTTTCTGTGGCCTATAACCTCATCAAGCCCTTCTAAGT
GAAGACTCGGAGGAAGATCATGGTCTGGGGCAAACCTGGAAGGAGTTTTACTCAAACATATCAGCC
CTGACCAGCTGCCTGTGGAATACGGAGGCCATGACAGATCCTGACGGAATCCCAAGTGTAAATCTAA
GATCAACTATGGGGCGACATCCCAAGCAGTACTACGTGCGAGACCAGGTGAAGCAGCAGTATGAACAC
ACCGTGCAGGTCCTCCGAGGCTCTCCCAAGTGGAGTATGAGATTCTTTTCCGGGCTGTGCTCCTCA
GGTGGCAGTTTATGTCGAGGGATCAGACGTGGGTTTTGGGATTTTCTGAAGACCAAGATGGGGGAACG
GCAGCGGCAGGGGAGATGACGGAGGTGCTGCCAAACCAGAGATACAATCCACATGGTGCCTGAGGAT
GGAACCTCACCTGCAGTGAAGCCAGGCATCTATGTTCTGCGGTTCCGACAACCTACAGTTCATCCATG
CCAAGAAAGTCAGTTTACCCTGGAGGTCTGCTTCCAGACAAAGCAGCCGAAGAGAAGATGAACCGCA
GGGGCAGACACCCCAA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206338 representing NM_144520
 Red=Cloning site Green=Tags(s)

MSGRVGDLSPKQEEALAKFRENVDVLP LTP LNPDDYFLLRWRARSFDLQKSEAMLRKHVEFRKQKIDDK
 IISWQPPEVIQQYL SGGRCGYDL D GCPVWYDIIGPLDAKGLLFSASKQDLLR TKMRDCELLLQECIQOTT
 KLGKKIETITMIYDCEGLGLKHLWKPAVEAYGEFLTMFEENYPETLKR L FVVKAPKLPVAYNLIKPFLS
 EDTRRKIMVLGANWKEVLLKHI SPDQLPVEYGGTMTDPDGNPKCKSKIN YGGDIPKQYYVRDQVKQYEH
 TVQVSRGSSHQVEYELFPGCVLRWQFMSEGS DVGFGIFLKT KMGERQRAGEMTEVLPNQRYNSHMVPED
 GLTCSEPGIYVLRFDNTYSFIHAKKVSFTVEVLLPDKAAEEKMNQGGADTPK

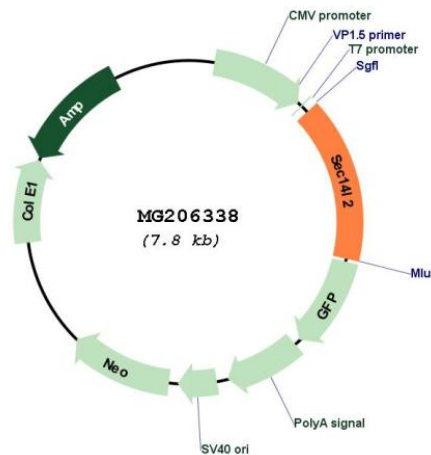
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144520

ORF Size:	1209 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:	NM_144520.1
RefSeq Size:	2529 bp
RefSeq ORF:	1212 bp
Locus ID:	67815
UniProt ID:	Q99J08
Cytogenetics:	11 A1
Gene Summary:	Carrier protein. Binds to some hydrophobic molecules and promotes their transfer between the different cellular sites. Binds with high affinity to alpha-tocopherol. Also binds with a weaker affinity to other tocopherols and to tocotrienols. May have a transcriptional activatory activity via its association with alpha-tocopherol. Probably recognizes and binds some squalene structure, suggesting that it may regulate cholesterol biosynthesis by increasing the transfer of squalene to a metabolic active pool in the cell (By similarity).[UniProtKB/Swiss-Prot Function]