

## Product datasheet for **MG206061**

### Syne4 (NM\_153577) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syne4 (NM_153577) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syne4
Synonyms:	0610012K07Rik; AI428936; KASH4; Nesp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206061 representing NM_153577 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGGTTCACCTCTTGGCCGTGAATCCCGCCAGAGCCTGTGAATTGTCCCTGGCAGCTCCTA  
GAGAGCTGGATGTTGTGGAGGGACCATCTGCCCTGCACCTGAGGAAGAGACAAGCAGGCCAGAGCAGGT  
CCAGGCCCTCCTTGGCCCTGCCTGAGCATTGCATGGGTGAAGTGAAGAGCACTGAGTCTGCCACCAGCCCC  
TCAAGACTCCCCCTGGCCTTCTCCATGAGCATCAAGACGGGGCAAGCCCTGTGAGCACTCTGACTCTG  
GTTTGAAGTACTAGAAGCTGAACAGGACAGTCTACATCTTTGTCTGTTGAGGTTGAAGTCCGGCTGCA  
GGACCTGGAACGAGGCCCTTGGGTCTTGGACGCTGGCCACAACAGGATTGTCCAGATGCAGGCCCTGCAG  
GCAGAGCTACGAGGGCCGCTGAGCGCGTGGATGCATTGCTTGCATTTGGTGAAGGCTGGCAGAGAGGA  
GTGAGCCCAGGGCCTGGGCATCCCTGGAGCAGGTCTGAGGGCCCTTGAACCCACCGAGACACCATCTT  
CCAACGGCTCTGGCAGCTGCAGGCCAGTTGATCAGCTATAGCCTGGTGTCTTGAAGGCCAACCTCCTG  
GACCAGGACTTGAAGTTGAGGGAGACTCAGACGGGCCAGCAGCTGGTGGAGTCTGGGGCCCTGGGCAC  
CCAGTACCTTCCCACCTCTGCAGAGTTGGAGTGGGACCCAGCAGGGGATGTTGGGGTCTTGGGCCCTC  
AGGGCAAAGATATCTCGGATACCAGGAGCTCCCTGTGAGCTGTGTGGCTACAGGGGACCCAGAGCAGT  
GGACAGGGCCTTGAAGCCTGCTCTCCTTGGGGCTTGGCCACCGAAACATTTAGCGGCTCACCATCGAA  
GGCGGCTCCGGAAGCCTCAGGACAGGAAGAGGCAAGTATCCCCCAGTCTGCCTGATGCAATGCTGGAAGT  
GGATCGCGGGGTCCCAGCTCCTGCATCCAAGCGGCCCTGACCCTCTTCTTTCTCCTTCTTCTCCTCT  
CTGGTGGGTGCCACGCTGTTGCTGCCCTTGTGGGGTCTCCTGCTTCTCATGCCGGCTGGCTAGGA  
CGCCCTACCTGGTCTCAGTTATGTCAATGGTCTCCCTCAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206061 representing NM\_153577  
 Red=Cloning site Green=Tags(s)

MALVPPLGREFPPEPVNCPLAAPRELDVVGITICPAPEEETS RPEQVQASLGLPEHCMGELKSTESATSP  
 SRLPLASSHEHQDGGKPCHEHSDSGLEVLAEQDSLHLCLLRLNFRLQDLERGLGSWTLAHRIVQMALQ  
 AELRGAERVDALLAFGEGLAERSEPRAWASLEQVLRALGTHRDTIFQRLWQLQAQLISYSLVLEKANLL  
 DQDLEVEGSDGPAAGGVWGPWAPSTFPTPALEWDPAGDVGGLGPSGQKISRIPGAPCELCGYRGPQSS  
 GQGLEDLLSLGLGHRKHLAAHRRRLRKPQDRKRQVSPSLPDAMLEVDRGVPAPASKRPLTLFFLLFLLL  
 LVGATLLLPLSGVSCCSHARLARTPYLVLSYVNGLPPI

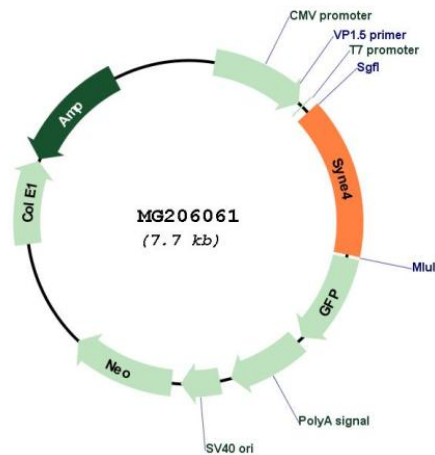
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_153577

<b>ORF Size:</b>	1164 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153577.2</a> , <a href="#">NP_705805.1</a>
<b>RefSeq Size:</b>	1354 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	233066
<b>UniProt ID:</b>	<a href="#">Q8CII8</a>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning (By similarity). Behaves as a kinesin cargo, providing a functional binding site for kinesin-1 at the nuclear envelope. Hence may contribute to the establishment of secretory epithelial morphology, by promoting kinesin-dependent apical migration of the centrosome and Golgi apparatus and basal localization of the nucleus.[UniProtKB/Swiss-Prot Function]