

Product datasheet for **MG225803**

Syn3 (NM_001164495) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syn3 (NM_001164495) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Syn3
Synonyms: MGC130403
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225803 representing NM_001164495
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTTCTCCGAGGCGGCTGTCTGACAGCAGCTTTGTGGCCAACCTGCCAATGGCTACATGCCGG
ACCTGCAGCGCCCAGAGAGCTCCAGTAGCTCTCCAGCATCCCCGGCCACAGAGAGGAGGCACCCAGCC
CCTGGCTGCCTCCTTCTCATCTCCAGGATCCAGCCTGTTGAGCTCCTTCTCCGGTGCCATGAAACAGACC
CCACAGGCTCCCTCAGGGCTGATGGAACACCCACTCCTGTACACCCGTGGTTCAGAGACCCAGGATCT
TGTTGGTTATCGATGACGCCATACAGACTGGTCAAAGTATTTTCATGGGAAGAAAGTGAATGGCGACAT
TGAGATCCGAGTGAACAGGCTGAGTTCTGAGCTGAACCTGGCTGCTTATGTTACCGGAGGCTGCATG
GTGGACATGCAAGTTGTGAGAAATGGCACAAAATTTGTGCGGTCCTTCAAACCTGACTTCATCCTGGTCC
GACAGCATGCCTACAGCATGGCCCTGGCTGAGGACTACCGGAGCCTGGTCATCGGCCTCCAGTATGGAGG
GCTTCTGCTGTCAACTCTCTACTCCGTATACAACCTTCTGCAGCAAGCCTTGGGTGTTTTCTCAGCTC
ATTAAGATCTTCCATTCTTGGGTCCTGAGAAATTTCCACTAGTGAGCAAAACATTTTCCCCAACCA
AGCCAATGCATTTTACTCATTCCCTCCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225803 representing NM_001164495
 Red=Cloning site Green=Tags(s)

MNFLRRRLSDSSFVANLPNGYMPDLQRPESSSSSPASPATERRHPQLAASFSSPGSSLFSSFSGAMKQT
 PQAPSGLMEPPTPVTPVQRPRIILLVIDDAHTDWSKYFHGKKNVNGDIEIRVEQAEFSELNLAAYVTGGCM
 VDMQVVRNGTKIVRSFKPDFILVRQHAYSMALAEDYRSLVIGLQYGGLPAVNSLYSVYNFCSKPWFVSQL
 IKIFHSLGPEKFLVEQTFPPNHKPMHFTHSLR

TRTRPLE - GFP Tag - V

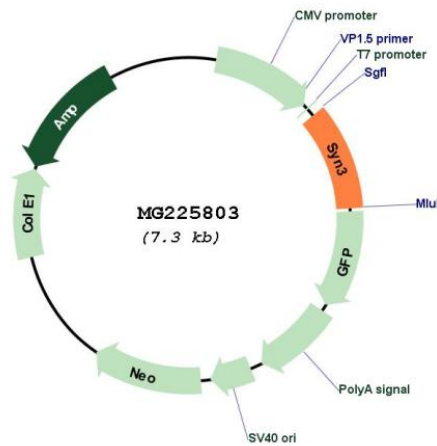
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001164495

ORF Size: 729 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_001164495.1 , NP_001157967.1
RefSeq Size:	4020 bp
RefSeq ORF:	732 bp
Locus ID:	27204
Cytogenetics:	10 C1
Gene Summary:	May be involved in the regulation of neurotransmitter release and synaptogenesis. Binds ATP with high affinity and ADP with a lower affinity. This is consistent with a catalytic role of the C-domain in which ADP would be dissociated by cellular ATP after bound ATP was hydrolyzed (By similarity).[UniProtKB/Swiss-Prot Function]