

Product datasheet for **MG206310**

Ren1 (NM_031192) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ren1 (NM_031192) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ren1
Synonyms:	D19352; Ren; Ren-1; Ren-A; Ren1c; Ren1d; Rn-1; Rnr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206310 representing NM_031192 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGAAGGAGGATGCCTCTCTGGCACTCTTGTGCTCTGGAGTCCTTGCACCTTCAGTCTCCAA
CACGCACCGCTACCTTTGAACGAATCCCCTCAAGAAAATGCCTTCTGTCCGGAAATCCTGGAGGAGCG
GGGAGTGGACATGACCAGGCTCAGTGTGAATGGGGCGTATTACAAAGAGGCCTTCCTTGACCAATCTT
ACCTCCCCGTGGTCTCACCACTACCTGAATACCCAGTACTACGGCGAGATTGGCATCGGTACCCAC
CCCAGACCTTCAAAGTCATCTTTGACACGGGTTACGCCAACCTCTGGGTGCCCTCCACCAAGTGCAGCCG
CCTCTACCTTGCTTGTGGGATCACAGCCTCTATGAGTCCTCTGACTCCTCCAGCTACATGGAGAACGGG
TCCGACTTCACCATCCACTACGGATCAGGGAGAGTCAAAGGTTTCTCAGCCAGGACTCGGTGACTGTGG
GTGGAATCACTGTGACACAGACCTTTGGAGAGGTACCGAGCTGCCCTGATCCCTTTCATGCTGGCCAA
GTTTGACGGTGTCTAGGCATGGGCTTTCCCGCTCAGGCCGTTGGCGGGTTACCCCTGTCTTTGACCAC
ATTCTCTCCAGGGGTGCTAAAGGAGGAAGTGTCTCTGTCTACTACAACAGGGGTTCCACCTGCTGG
GGGGCAGGTGGTGTAGGAGGTAGCGACCCGACGATTATCAAGGCAATTTTCACTATGTGAGCATCAG
CAAGACTGACTCCTGGCAGATCACGATGAAGGGGTGTCTGTGGGTCTTCCACCCTGCTATGTGAAGAA
GGCTGTGCGGTAGTGGTGGCACTGGTTTCATCTTTATCTCGGCTCCTACGAGCTCCCTGAAGTTGATCA
TGCAAGCCCTGGGAGCCAAGGAGAAGAGAATAGAAGAATATGTTGTGAAGTGTAGCCAGGTGCCACCCT
CCCCGACATTTCTTTGACCTGGGAGGCAGGGCCTACACACTCAGCAGTACGGACTACGTGCTACAGTAT
CCCAACAGGAGAGACAAGCTGTGCACACTGGCTCTCCATGCCATGGACATCCCACCACCCACTGGCCCTG
TCTGGGTCTGGGTGCCACCTTCATCCGCAAGTTCTATACAGAGTTTGATCGGCATAACAATCGCATTGG
ATTCGCTTGGCCCGC

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206310 representing NM_031192
 Red=Cloning site Green=Tags(s)

MDRRRMPLWALLLLWSPCTFSLPTRTATFERIPLKKMPSVREILEERGVDMTRL SAEWGVFTKRPSLTNL
 TSPVVL TNYLNTQYYGEIGIGTPPQTFKVI FDTGSANLWVPSTKCSRLYLACGIHSLYESDSSSYMENG
 SDFTIHYGSGRVKGFLSQDSVTVGGITVQTTFGEVTELP LIPFMLAKFDGVLGMGFPAQAVGGVTPVFDH
 ILSQGVLKKEEVFSVYYNRGSHLLGGEVVLGGSDPQHYQGNFHVYSISKTD SWQITMKGVSVGSSTLLCEE
 GCAVVVDTGSSFI SAPTSSLKLI MQALGAKEKRIEEEVYVNC SQVPTLPDISFDLGGRAYTLSSTDYVLQY
 PNRDKLCTLALHAMDIPPTGPVWVLGATFIRK FYTEFDRHNNRIGFALAR

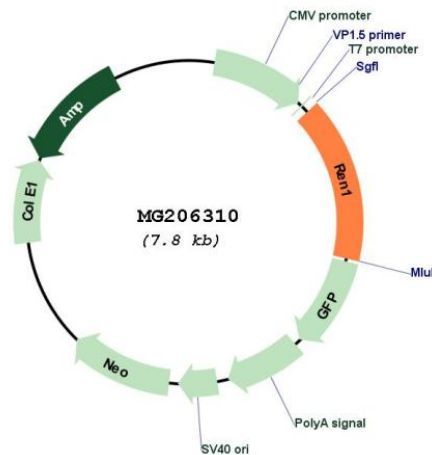
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031192

ORF Size:	1206 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_031192.3 , NP_112469.1
RefSeq Size:	1420 bp
RefSeq ORF:	1209 bp
Locus ID:	19701
UniProt ID:	P06281
Cytogenetics:	1 57.91 cM
Gene Summary:	Renin is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney. [UniProtKB/Swiss-Prot Function]