

Product datasheet for **MG223098**

Itga8 (NM_001001309) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga8 (NM_001001309) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itga8
Synonyms:	A1447669
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223098 representing NM_001001309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCGGGAACCCACTGTGGTCCCCGGGGAACCGGCACCTCCGTTGCGCGTCTCTGTTGCGTCT
CGGCCGCTGGGGATGCTGTGGTCCCCGCGTGTCTGGCGTTCAACTGGATGTGGACAAGCTCACTGT
GTACAGTGGCCCCGAGGGCAGCTACTTCGGCTACTCACTGGACTTCTACATACCTGATGCGCGCACAGCC
AGTGTCTTAGTGGGGCACCCAAAGCCAACACTAGCCAGCCGGATATCGTAGAAGGGGAGCTGTCTACT
ACTGTCCTGGCCCTCAGAGAGGTCTGCACAGTGAAGCAGATACCGTTTGACACCACCAACAACAGGAA
AATCAGAGTTAATGGAACCAAAGAACCTATAGAATTTAAATCAAACCAAGTGGTTTGAGCCACAGTGAGA
GCTCACAAGGAAAAGTTGTGGCTGTGCCCTTTGTATCACTGGAGAATCTGAAACCTAATCCAGCGA
AGGACCCAGTTGGCACATGCTATGTAGCAATTCAGAATTCAGTGCCTATGCTGAGCACTCACCTTGTCG
AAACAGCAATGCTGATCCCGAAGGCCAAGGTTACTGCCAGGCAGGGTTTAGCCTAGACTTCTATAAGAA
GGAGACCTTATAGTGGGAGGACCTGGAAGTTTTACTGGCAAGGTCAGGTGATCACTGTCAGTATAGCAG
ACATCATTGCAAATTACTCATTCAAGGATATTCTACGAAAATTGGCCGCAGAAAAGCAGACAGACGTGGC
TCCAGCTTCTATGATGACAGCTACCTTGATATTCGGTCGCTGGAGAATTCAGTGGGACTCTCAG
CAAGAATTGGTGGCTGGGATTCGAAGAGGACACAGAATTTGGATATGTCTCCATCATTAACTCCACAG
ACATGACCTTCATTGCAATTTTACTGGTGGAGCAGATGGCATCTTATTTGCGATATACTGTTGTGGTATC
AGATGTTAACAATGATGGCATGGATGACATATTGGTCGGGGCACCTCTCTTTATGGAGCGAGAATTTGAA
AGTAACCCTAGAGAAGTGGGACAGGTCTACTTGTACCTCAAGCAAGCGCCCTCTCTTCAAGACCCAC
AGGTCCTCACCGGCACGGAGACATTTGGGAGATTTGGTAGCTCTGTGGCCCACTTGGGGACCTGAACCA
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GCTGTAGGGCATTGAAAAGGGAAAGTAGCTTTACAGAGCAAGGCCAGTTGTAACCGTGGATGCC



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CAGCTTCTGCTGCACCCGATGATTATCAACCTTGAAAATAAACTTGCCAGATTCAGAATTCCTACTC
 CTGTGGCCTGCTTTTCTGTAAGAGTCTGTGCATCTATAGCAGGCCAGAGCATTTCAAATACAATAGCCCT
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 CAGCTCCACAGACAGAGCCCTGCAAGAATACTGAACTGTACCAACATTGACTGCTTGCAATCTCTTGTG
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 CTTAAGCTTTAGCTTTATGGAAGTGTGGATTCTTTGATAGAGCAAGACCTCCTCAGGATGAAATGACAGAC
 AGGGAACAACCTGACCAGTGACAAGACCCAGAGGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223098 representing NM_001001309
 Red=Cloning site Green=Tags(s)

MSAGTHCGPPGNRAPPFARLCCVSAALGMLWSPAFLAFNLDVDKLTVYSGPEGSYFGYSLDFYIPDARTA
 SVLVGAPKANTSQPDIVEGGAVYYCPWPSERSAQCKQIPFDTTNRRKIRVNGTKEPIEFKSNQWFGATVR
 AHKGVVACAPLYHWRTLKNPAKDPVGTGYVAIQNFSAYAEHSPCRNSNADPEGQGYCQAGFSLDFYKN
 GDLYVGGPGSFYQGVITVSIADIIANYSFKDILRKLAAEKQTDVAPASYDDSYLGYSVAAGEFTGDSQ
 QELVAGIPRGAQNFYVSIINSTDMTFIQNFTGEQMASYFGYTVVSDVNNMGDDILVGAPLFMEREF
 SNPREGVQVYLYLQASALLFQDPQVLTGTETFRGFGSSVAHLGDLNQGYNDAIGVVPFAGKDQRGKVL
 YNGNPRGLHSPKPSQVLQGIWGSQTIPTSGFGSLRGDADIDKNDYDILLVAFGKGVAVYRARPVTVDA
 QLLLHPMIINLENKTCQIPEFPTPVACFSVRVCASIAQGISNTIALLAEVQLDFLKQKGAIKRFLFLHN
 HQSHFTFPFVMKQKSLHCQDFMYYLRDETEFRDKLSPINISLNYSLDDSTFKDSLEVKPILNHYRDNV
 TEQAHLVDCGEDNLCVPLKLSARPKHQIIGDENHMLIINARNEGEGAYEAEFVIEPEEADYVGI
 ERNNGKLRPLSCEYKMENTRMVVDLGNPMVTGTNFSGLRFAVPRLEKTNMSINFDLQIRSSNKDNDP
 SNFERVQINITAIAQVEIRGVSHPPQIVLPIHNWEPEKKPKHEEEVGPLVEHIYELHNIGPSTISDSILD
 VGWPF SARDEFLLYIFHLQTLGLPLQCQTNPENPDIKPAASPEDPELSAFLRNATIPHLVRKRDVPPV
 QLHRQSPARILNCTNIDCLQISCAVGRLLGGESAVLKVRSRLWAHTFLKRKNDHYALASLVSEVKKMPY
 KEQPAKLPAGSTAVKTSVIWATPNVFSFIPLWVILAILLGLLVLAAILTLALWKCGFFDRARPPQDEMTD
 REQLTSDKTPEA

TRTRPLE - GFP Tag - V

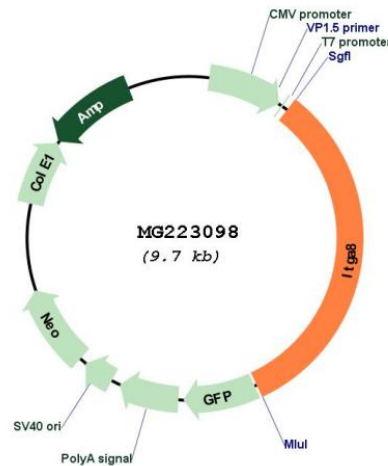
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001309

ORF Size: 3186 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_001001309.3</u>
RefSeq Size:	5782 bp
RefSeq ORF:	3189 bp
Locus ID:	241226
UniProt ID:	<u>A2ARA8</u>
Cytogenetics:	2 9.12 cM
Gene Summary:	This gene encodes a member of the integrin family of cell surface proteins that mediate cellular interactions with the extracellular matrix and other cells. The encoded protein undergoes proteolytic processing to generate the disulfide-linked heterodimeric alpha subunit which, in turn associates with a beta subunit to form the functional integrin receptor. Mice lacking the encoded protein mostly die after birth due to kidney defects, but some of animals that survive exhibit defects in the sensory hair cells of the inner ear. [provided by RefSeq, Aug 2016]