

## Product datasheet for **MR223098**

### **Itga8 (NM\_001001309) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itga8 (NM\_001001309) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Itga8  
**Synonyms:** AI447669  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223098 representing NM\_001001309  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCGGGAACCCACTGTGGTCCCCGGGGAACCGGCACCTCCGTTGCGCGTCTCTGTTGCGTCT  
CGGCCGCTGGGGATGCTGTGGTCCCCGCGTGTCTGGCGTTCAACTGGATGTGGACAAGCTCACTGT  
GTACAGTGGCCCCGAGGGCAGCTACTTCGGCTACTCACTGGACTTCTACATACCTGATGCGCGCACAGCC  
AGTGTCTTAGTGGGGCACCCAAAGCCAACACTAGCCAGCCGGATATCGTAGAAGGGGAGCTGTCTACT  
ACTGTCCCTGGCCCTCAGAGAGGTCTGCACAGTGAAGCAGATACCGTTTGACACCACCAACAACAGGAA  
AATCAGAGTTAATGGAACCAAAGAACCTATAGAATTTAAATCAAACCAGTGGTTTGGAGCCACAGTGAGA  
GCTCACAAGGAAAAGTTGTGGCTTGTGCCCTTTGTATCACTGGAGAATCTGAAACCTAATCCAGCGA  
AGGACCCAGTTGGCACATGCTATGTAGCAATTCAGAATTCAGTGCCTATGCTGAGCACTCACCTTGTGCG  
AAACAGCAATGCTGATCCCGAAGGCCAAGGTTACTGCCAGGCAGGGTTTAGCCTAGACTTCTATAAGAA  
GGAGACCTTATAGTGGGAGGACCTGGAAGTTTTACTGGCAAGGTCAGGTGATCACTGTCAGTATAGCAG  
ACATCATTGCAAATTACTCATTCAAGGATATTCTACGAAAATTGGCCGCAGAAAAGCAGACAGACGTGGC  
TCCAGCTTCTATGATGACAGCTACCTTGGATATTCGGTCGCTGGAGAATTCAGTGGGACTCTCAG  
CAAGAATTGGTGGCTGGGATTCGAAGAGGACACAGAATTTGGATATGTCTCCATCATTAACTCCACAG  
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AGTAACCCTAGAGAAGTGGGACAGGTCTACTTGTACCTTCAAGCAAGCGCCCTCTCTTCCAAGACCCAC  
AGGTCCTCACCGGCACGGAGACATTTGGGAGATTTGGTAGCTCTGTGGCCCACTTGGGGACCTGAACCA  
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CCATCCCTTCTGGATTTGGCTTTTCTCTAAGAGGAGATGCAGACATAGACAAGAATGATTACCCAGATTT  
GCTTGTAGGGCATTGAAAAGGGAAAGTAGCTTTACAGAGCAAGGCCAGTTGTAACCGTGGATGCC



CAGCTTCTGCTGCACCCGATGATTATCAACCTTGAAAATAAACTTGCCAGATTCCAGAATTCCTACTC  
 CTGTGGCCTGCTTTTCTGTAAGAGTCTGTGCATCTATAGCAGGCCAGAGCATTTCAAATACAATAGCCCT  
 GCTGGCCGAGGTGCAGTTAGATTTCTGAAGCAAAAAGGAGCCATCAAACGGACGCTCTTTCTCCACAAC  
 CACCAGTCCCATTACCTTCCCCTTTGTGATGAAGCAGCAGAAAATCCCTCCACTGCCAGGATTTATGG  
 TTTACCTTCGGGATGAACTGAATTCGAGATAAATTGTCTCCAATCAACATCAGCCTGAACACAGTTT  
 GGATGATTCTACCTTTAAAGACAGCCTGGAAGTGAAGCCAATTTGAACCACTACAGGGACAATGTAGTT  
 ACTGAGCAGGCTCACATCCTGGTGGACTGTGGAGAAGACAATCTATGCGTTCCTGACTTGAAGCTGCAG  
 CTAGACCAGATAAGCATCAGATAATTATTGGCGATGAAAATCACCTAATGCTCATAATAAATGCAAGAAA  
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 GAGCGCAACAACAAGGGACTGAGGCCCTGAGTTGTGAGTACAAGATGAAAAACGTGACCAGGATGGTGG  
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 CCTTGAGAAAACAATATGAGCATTAACTTCGATCTCCAATCAGAAGCTCCAATAAGGACAATCCTGAC  
 AGCAACTTCGAGCGTGTACAGATCAACATCACTGCCATTGCTCAGGTCGAAATCAGAGGAGTGTCCACC  
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 TACAATGTCAAACAATCCTGAGATCAACCCACAGGATATAAAGCCTGCTGCCTCCCCAGAGGATACCC  
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 CAGTGGTTCGCTGGGAGGAGGCGAAAGTGCAGTCTAAAGGTGAGTTCGAGATTGTGGGCCACACGTT  
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 AAAGAACAGCCAGCAAAGCTGCCAGCGGGAGCACAGCGGTTAAGACGTGCGTTATTTGGCCACTCCGA  
 ATGTCTCTTCAATTCCATTGTGGTCATAATACTAGCGATCCTTCTTGTTGCTGGTCTGGCTAT  
 CTTAAGTTAGCTTTATGGAAGTGTGGATTCTTTGATAGAGCAAGACCTCCTCAGGATGAAATGACAGAC  
 AGGGAACAACGACCAGTGACAAGACCCAGAGGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223098 representing NM\_001001309  
 Red=Cloning site Green=Tags(s)

MSAGTHCGPPGNRAPPFARLCCVSAALGMLWSPAFLAFNLDVDKLTVYSGPEGSYFGYSLDFYIPDARTA  
 SVLVGAPKANTSQPDIVEGGAVYYCPWPSERSAQCKQIPFDTTNNRKIRVNGTKEPIEFKSNQWFGATVR  
 AHKGKVVACAPLYHWRTLKPNPAKDPVGTGYVAIQNFSAEHSPCRNSNADPEGQGYCQAGFLDFYKN  
 GDLI VGGPGSFYWGQVITVSIADIIANYSFKDILRKLAAEKQTDVAPASYDDSYLGYSVAAGEFTGDSQ  
 QELVAGIPRGAQNFYVSIINSTDMTFIQNFTGEQMASYFGYTVVSDVNNDGMDDILVGAPLFMEREF  
 SNPREGVQVYLYLQASALLFQDPQVLTGTETFRGFGSSVAHLGDLNQGYNIDIAIGVPPFAGKQDQKGLI  
 YNGNPRGLHSPKPSQVLQGIWGSQTI PSFGFSLRGDADIDKNDYDILLVGAFGKGVAVYRARPVTVDA  
 QLLLHPMIINLENKTCQIPEFPVACFSVRVCASIAQGISNTIALLAEVQLDFLKQKGAIKRTLFLHN  
 HQSHFTFPFVMKQKSLHCQDFMYYLRDETEFRDKLSPINISLNYSLDDSTFKDSLEVPIILNHYRDNV  
 TEQAHLVDCGEDNLCVPDLKLSARPKHQIIGDENHMLIINARNEGEGAYEAEFVFIPEEADYVGI  
 ERNNGKLRPLSCEYKMNVTMVMVCDLGNPMVTGTNFSLGLRFVPRLEKTNMSINFDLQIRSSNKDNP  
 SNFERVQINITAIAQVEIRGVSHPPQIVLPIHNWEPEKKPKHEEEVGPLVEHIYELHNIGPSTISDSILD  
 VGWPF SARDEFLLYIFHLQTLGPLQCQTNPENPQDIKPAASPEDPELSAFLRNATIPHLVRKRDV  
 QLHRQSPARILNCTNIDCLQISCAVGRLLGGESAVLKVRSRLWAHTFLKRNKNDHYALASLVSEVVKMPY  
 KEQPAKLPAGSTAVKTSVIWATPNVSFSIPLWVILAILLGLLVLAAILTLALWKCGFFDRARPPQDEMTD  
 REQLTSDKTPEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_d06.zip](https://cdn.origene.com/chromatograms/mm9002_d06.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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\\_001001309.3](#)

RefSeq Size: 5782 bp

RefSeq ORF: 3189 bp

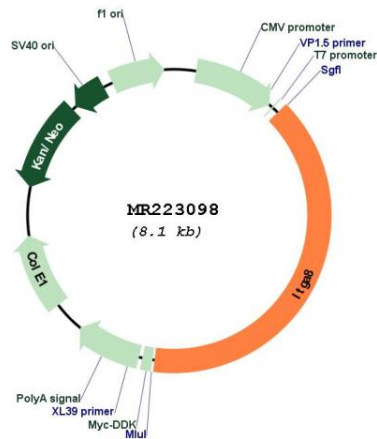
Locus ID: 241226

UniProt ID: [A2ARA8](#)

**Cytogenetics:** 2 9.12 cM  
**MW:** 118 kDa

**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]

**Product images:**



Circular map for MR223098