

Product datasheet for **MC223683**

Itga7 (NM_008398) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga7 (NM_008398) Mouse Untagged Clone
Tag: Tag Free
Symbol: Itga7
Synonyms: al; alpha7; [a]; [a]7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223683 representing NM_008398
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCAGGATCCGAGGTGCGATTTTCTCCGGCCCCCGGAATCTACTATCTTATTACTTCCTTGCTCG
 CTGGACTGTTCTTACCACCGCTATCGCCTCAATCTGGATGTGATGGTGCCATACGCAAGGAGGGAGA
 ACCCGGCAGCCTATTCGGCTTTTCGGTGGCCCTGCACCGACAATTACAGCCCCGACCCAGAGCTGGCTG
 CTGGTGGGCGCTCCCCAGGCCCTGGCTTCTCTGGACAGCAGGCAAACCGCACCGGAGGCCTCTTTGCTT
 GTCCCCCTGAGCCTAGAGGAGACAGATTGCTACAGAGTGGACATTGACAGGGGAGCTAACGTGCAGAAGGA
 GAGCAAGGAGAACCAATGGCTGGGAGTCAGTGTCCGGAGCCAGGGGCCAGGGGGCAAGATTGTTACGTGT
 GCACACCGATATGAGTCTCGACAGAGAGTGGACCAGGCTTTGGAGACTCGGGATGTGATTGGCCGCTGCT
 TTGTGCTAAGCCAGGACCTGGCCATCCGTGATGAGCTGGATGGTGGGGAGTGAAGTTCTGTGAGGGGCG
 CCCCCAGGGCCATGAACAGTTTGGGTTCTGTGAGCAGGGCACAGCTGCCACCTTCTCCCCGACAGTCAC
 TACCTCGTCTTTGGGGCTCCAGGAACCTATAACTGGAAGGGTTGCTTTTTGTGACCAACATTGATAGCT
 CAGACCTGACCAGCTGGTGTATAAACTTTGGACCTGCTGACCGGCTCACAGGACCAGCCGGAGACTT
 GACCTTGAATAGCTATTTAGTTTTCTCCATCGATTCTGGGAAGGGTCTTATGCGCTCAGAAGAGCTGAGT
 TTTGTGGCAGGGGCCACGTGCCAACCACAAAGGGGCTGTGGTCACTCTGCGCAAGGATAGCGCCAGCC
 GCTTGATACTGAGGTTGTGCTGTCTGGGGAGCGCCTGACCTCTGGCTTTGGCTACTCACTGGCTGTGAC
 TGATCTCAACAATGATGGCTGGGAGACCTGATTGTGGGTGCCCTACTTCTTTGAACGCCAAGAAGAG
 CTGGGAGGTGCTGTATGTGTACATGAACCAGGGTGGCCATTGGGCAGATATCTCTCTCCGAATCT
 GTGGCTCCCTGATTCCATGTTTGGGATCAGTTTGGCTGTATTGGGGACCTCAACCAAGATGGCTTCCC
 AGACATTGCCGTGGGAGCTCCCTTTGACGGAGATGGGAAGGTCTTATCTACCATGGGAGCAGCCTTGGG
 GTGGTTGTCAAACCTTACAGGTGCTGGAGGGCAGGCGGTGGGTATCAAGAGCTTTGGTACTCCCTGT
 CTGGTGGCCTGGATGTGGATGAAAATCACTACCCAGACCTGCTTGTGGGCTCCCTGGCTGATACCGCTGC
 TCTGTTACAGGGCCAGACCTGTTCTACATGTCTCCAAGAGATCTTATTGACCCAGAGCCATCGATCTG
 GAACAACCAACTGTGCCGATGGACGCTTGGTCTGTGTGGACATAAAGATCTGTTTCAGCTATGTCGCTG



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TGCCAGCAGCTACAGCCCTAGTGTGGCCTTAGATTATATGTTAGATGGGGACACAGACCCGAGGCTCCG
 GGGCCAGGTTCCACGTGTGACGTTTCTGAGCCGAGGCCTGGATGACCTCAGGCATCAGTCCCTCCGGCACC
 GTGTGGCTGAAGCACCACATGACCCGAGTCTGTGGAGATACTGTGTTCCAGCTGCAGGAAAACGTCAAAG
 ACAAGCTACGGGCCATTGTGGTACCCTGTCAATGGTCTCCGAACCCCTCCATTAGGGAGGCAAGCACC
 TGGCCAGGAGCTCCCACTGTGGCTCCCATCCTCAATGCTCACCAGCCCAGCACCAGAGGACTGAGATC
 CACTTTCTGAAGCAAGGCTGCGGTGAAGATAAGATCTGTGAGAGCAACCTCCAGCTCGAGCGGTACCAGT
 TCTGTTCCAGGATCAGCGACACAGAGTTCAGGCTCTGCCATGGATCTGGATGGAAGGACCGCCCTGTT
 CGCATTGAGTGGGCAGCGTTCATAGGCTGGAAGTACAGTACCAACCTGCCCTCTGACCCTGCCCGG
 CCTCAGGCAGATGGGATGATGCTCATGAAGCACAGCTCTGGTCACTCTCCAGCCTCTACGGTACT
 CAGGAGTCCGTGCTCTGGACTCTGTGGAGAAGCCGCTCTGCCTGTCCAATGACAGCGCCTCTCATGTCGA
 GTGTGAGCTGGGAACCCATGAAGAGAGGCGCTCAGGTCACCTTTTACCTCATCCTCAGCACCTCTGGG
 ATCACTATTGAGACCACAGAGCTGGAGGTGAAATTGCTGTTAGCCACGATCAGTGAGCAGGAGCTGGATC
 CGGTCTCCGTTCCGGCTCATGTCTTCATTGAATTGCCACTGTCCATTTCCAGGGTGGCCACTCCCAGCA
 ACTCTTCTCTCTGGCGAGGTGAAGGGCGAAAGTCCATGCGATCTGAGAGGGACGTGGGCAGCAAAGTC
 AAGTATGAGGTACGGTCTCCAATCAAGCCAGTCTCTCAATACTCTGGGCTCTGCGTTCCTCAACATCA
 TGTGGCCCCACGAGATCGCCAATGGAAGTGGCTGCTGTACCCCATGCGGGTAGAGCTGGAGGGCGGACA
 GGGCCTGGCAAGAGAGGGATCTGTTCCCAAGACCCAACATCCTCCAGCTGGATGTGGACAGCAGGGAT
 AGGAGGGCGGAGAGCTGGGGCAGCCGAGCCGAGGAGCCTCCAGAGAAGTGGAGCCTAGCACATCCT
 GGTGGCCAGTGTCTCTGCTGAGAAGAGAAACGTGACTCTGGACTGCGCCAGGGCAGCGCAAGTGTGT
 GGTGTTACAGTGGCCACTCTACAGCTTTGATCGTGCAGCCGTGCTTACGCTCTGGGGCCGCTCTGGAAC
 AGCACCTTTCTGGAGGAGTACATGGCCGTGAAATCCCTGGAAGTATCGTCCGAGCCAACATCACAGTGA
 AATCCTCCATTAAGAACTTGTGCTCAGAGATGCATCCACAGTATTCCAGTATGGTGTACTTGGACCC
 CATGGCCGTGGTTGTGGAAGGAGTCCCCGTGGTGCATCCTCCTGGCAGTGTGGCTGGCTGTTAGTC
 CTGGCCTTGTGCTACTGCTGTGGAAGCTGGGATTCTTCAAGCGGGGGAAGCACCCCGAGGCCACCG
 TGCCCCAGTACCACGAGTGAAGATCCCTCGGGAAGACCAGCAGATTCAGGAGGAGAAGACAGGCAC
 CATCCAGAGGAGTAACTGGGCAACTCCCAGTGGGAGGGCTCCGACGCACACCCCATCTTGCTGCCGAC
 TGGCATCTGAGCTGGGTCTGATGGACATCCGGTGCCAGCCACTGCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_008398

Insert Size:

3411 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_008398.2](#), [NP_032424.2](#)

RefSeq Size: 4035 bp

RefSeq ORF: 3411 bp

Locus ID: 16404

Cytogenetics: 10 77.2 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 transmembrane protein is the alpha subunit that forms a noncovalent heterodimer with the beta subunit to form the functional integrin receptor that binds to laminin. Mice lacking the encoded protein exhibit symptoms of progressive muscular dystrophy, impaired axonal regeneration and cerebral vascular defects. [provided by RefSeq, Aug 2016]