

Product datasheet for **RC230565**

Alpha Dystroglycan (DAG1) (NM_001177636) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Alpha Dystroglycan (DAG1) (NM_001177636) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Alpha Dystroglycan |
| Synonyms: | 156DAG; A3a; AGRNR; DAG; LGMDR16; MDDGA9; MDDGC7; MDDGC9 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC230565 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGATGTCTGTGGGCTCTCGTGTCTGCCCTCTGGGGAGGACCTTTCTCCTCTGCTCTCTG
 TGGTTATGGCTCAGTCCCACTGGCCAGTGAACCTCAGAGGCTGTGAGGACTGGGAAAACAGCTTGA
 GGCATCCATGCACTCAGTGTCTCAGACCTCCACGAGGCTGTTCCACAGTGGTTGGCATTCTGATGGC
 ACGGCTGTCTCGGGCGCTCATTTGAGTGACCATTCCAACAGATTTGATTGCCTCCAGTGGAGATATCA
 TCAAGGTATCAGCGGCAGGAAGGAGGCTTTGCCATCTGGCTGCACTGGGACTCACAGAGCCACACCT
 GGAGGGCTCCCCCTTGACACTGATAAGGGTGTGCATTACATTCAGTGAGCGCTACACGGCTGGGGCC
 AACGGGAGCCACATCCCCAGACCTCCAGTGTCTCCATCGAGGTCTACCCTGAAGACCACAGTGAGC
 TGCAGTCGGTGAGGACAGCTCCCCAGACCTGGTGAGTGGTATCATCTGCCTGTGCTCGGATGAACC
 TGTGACTGTTTTGACGGTGATTTGGATGCCGACCTACCAAGATGACCCAAAGCAAAGGATTGACCTC
 CTGCACAGGATCGGAGCTTCTCAGAAGTAGAGCTTACAACATGAAATTAAGTCCGGTGGTGAATAACA
 GACTATTTGACATGTCTGGCTTCATGGCTGGCCCGGAAATGCAAAAAGGTGGTGGAGAAATGGGGCCCT
 TCTCTCTGGAAGCTGGGCTGCTCCCTGAACGAAACAGTGTGCCTGACATTCATGGTGTAGAGGCCCT
 GCCAGGGAGGGCGCAATGTCTGCTCAGCTTGGCTACCCTGTGGTGGGTTGGCACATCGCCAATAAGAAGC
 CCCCTCTTCCAAACGCGTCCGGAGGCAGATCCATGCTACACCCACACCTGTCACTGCCATTGGGCCCCC
 AACCACGGCTATCCAGGAGCCCCATCCAGGATCGTGCCAACCCACATCTCCAGCCATTGCTCCTCCA
 ACAGAGACCATGGCTCCTCAGTCAGGATCCTGTTCTGGGAAACCCACGGTCAACATCCGGACTCGAG
 GCGCATTATTCAAACCCCAACCTAGGCCCTCCAGCCTACTCGGGTGTGAGAAGTGGCACCACT
 TCCTGGCCAGATTCGCCCAACGATGACCATTCCTGGCTATGTGGAGCCTACTGCAGTTGCTACCCCTCCC
 ACAACCCACCAAGAAGCCACGAGTATCCACACCAAAACAGCAACGCCTTCAACTGACTCCACCACCA
 CCACGACTCGCAGGCCAACCAAGAAACACGGACACCCCGCCAGTGCCTGGGTCAACCAAAAGTTTC
 CATCACCAGATTGGAACTGCCTCACCGCTACTCGTATTCGACACCACCAGTGGAGTGCCCGTGGC
 GGAGAACCAACAGCGCCAGAGCTCAAGAACCATATTGACAGGGTAGATGCCTGGGTTGGCACCTACT
 TTGAGGTGAAGATCCCGTCAGACTTTCTATGACCATGAGGACACCACCAGTACAAGTGAAGCTGAC
 CCTGAAACTGCGGGAGCAGCAGCTGGTGGCGAGAAGTCTGGGTACAGTTCAACAGCAACAGCCAGCTC
 ATGTATGGCTTCCCAGCAGCAGCCACGTGGGCAAACAGAGTATTTTCATGCATGCCACAGACAAGGGGG
 GCCTGTGCGCTGTGGATGCCTTCGAGATCCACGTCCACAGGCGCCCCAAGGGGATAGGGCTCCTGCAAG
 GTTCAAGGCCAAGTTTGTGGGTGACCCGGCACTGGTGTGAATGACATCCACAAGAAGATTGCCTTGGTA
 AAGAACTGGCCTTCGCCTTTGGAGACCAGAACTGTAGCACCATCACCTGCAGAATATCACCCGGGGCT
 CCATCGTGGTGGAAATGGACCAACAACACTGCCTTTGGAGCCCTGCCCAAGGAGCAGATCGCTGGGCT
 GAGCCGCGGATCGCTGAGGATGATGGAAAACCTCGGCCTGCCTTCTCCAACGCCTAGAGCCTGACTTT
 AAGGCCACAAGCATCACTGTGACGGCTCTGGCAGTTGTGGCACCTACAGTTTATCCCTGTGGTACCAC
 CCAGGAGAGTGCCCTCAGAGGCGCCGCCACAGAAGTGCCTGACAGGGACCCTGAGAAGAGCAGTGAGGA
 TGATGTCTACCTGCACACAGTCATTCCGGCCGTGGTGGTGCAGCCATCCTGCTATTGCTGGCATCATT
 GCCATGATCTGCTACCGCAAGAAGCGGAAGGGCAAGCTTACCCTTGAGGACCAGGCCACCTTCATCAAGA
 AGGGGGTGCCTATCATCTTTCAGAGCAACTGGACGACTCCAAGCCCCACCCTCCTCCAGCATGCCACT
 CATTCTGAGGAGGAGAAGGCTCCCCTACCCCTCCTGAGTACCCCAACCAGAGTGTGCCGAGACCACT
 CCTCTGAACCAGGACACCATGGGAGAGTACAGCCCTGCGGGATGAGGATCCCAATGCGCCTCCTACC
 AGCCCCACCGCCCTTACAGCACCCATGGAGGGCAAGGGCTCCCGTCCAAGAACATGACCCCATACCG
 GTCACCTCCTCCATGTCCACCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230565 protein sequence
 Red=Cloning site Green=Tags(s)

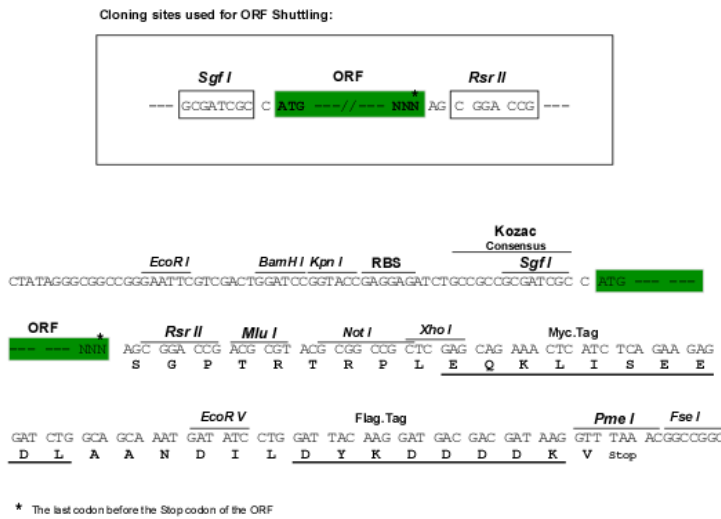
MRMSSVGLSLLPLWGRFTLLLLSVVMAQSHWPSEPSEAVRDWENQLEASMHSVLSDLHEAVPTVVGIPDG
 TAVVGRSFRVTIPTDLIASSGDIKVSAAKALPSWLHWDQSHTLEGLPLDTDKGVHYISVSATRLGA
 NGSHIPQTSSVFSIEVYPEDHSELQSVRTASDPDGEVSSACAADPEVTLTVILDADLTKMTPKQRIDL
 LHRMRSFSEVELHNMKLVVVNNRFLDMSAFMAGPGNAKKVVENGALLSWKLGCSLNQNSVPDIHGVEAP
 AREGAMSAQLGYPVVGWHIANKKPPLPKRVRRIHATPTPVTAIGPPTTAIQEPPSRIVPTPTSPAIA
 TETMAPVVRDPVPGKPTVTIRTGAIITPTLGPITQPTRVSEAGTTVPQGQIRPTMTIPGYVEPTAVATPP
 TTTTKPRVSTPKPATPSTDSTTTTTRRPTKKPRTPRPVPRVTTKVSITRLETASPTRIRTTTSGVPRG
 GEPNQRPCLKNHIDRVDWVGTYFEVKIPSDTFYDHEDTTDKLKLTLKLEQQLVGKESWVQFNSNSQL
 MYGLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHRRPQGDRAPARFKAKFVGDGALVNDIHKKIALV
 KKLAFAGDRNCSTITLQNI TRGSIVVEWTNNTLPLEPCPKEQIAGLSRRIAEDDGKPRPAFNALEPDF
 KATSITVTGSGSCRHLQFIPVPPRRVPSEAPTEVPDRDPEKSEDDVYLHTVIPAVVVAAILLIAGII
 AMICYRKKRKGKLTLEDQATFIKKGVP IIFADELDDSKPPPSSMPLILQEEKAPLPPPEYPNQSPETT
 PLNQDTMGEYTPLRDEDPNAPPYQPPPPFTAPMEGKSRPKNMTPYRSPPPYVPP

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

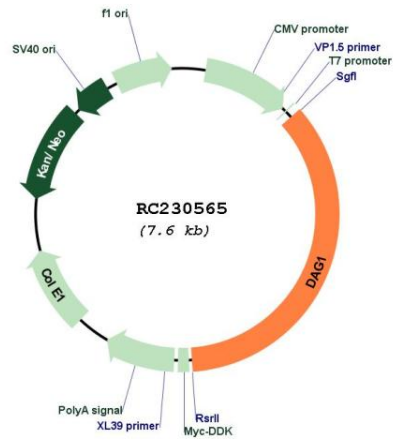
Cloning Scheme:



ACCN: NM_001177636

| | |
|-------------------------------|---|
| ORF Size: | 2685 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_001177636.2 , NP_001171107.1 |
| RefSeq Size: | 5825 bp |
| RefSeq ORF: | 2688 bp |
| Locus ID: | 1605 |
| UniProt ID: | Q14118 |
| Cytogenetics: | 3p21.31 |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| Protein Pathways: | Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Hypertrophic cardiomyopathy (HCM), Viral myocarditis |
| MW: | 97.5 kDa |
| Gene Summary: | This gene encodes dystroglycan, a central component of dystrophin-glycoprotein complex that links the extracellular matrix and the cytoskeleton in the skeletal muscle. The encoded preproprotein undergoes O- and N-glycosylation, and proteolytic processing to generate alpha and beta subunits. Certain mutations in this gene are known to cause distinct forms of muscular dystrophy. Alternative splicing results in multiple transcript variants, all encoding the same protein. [provided by RefSeq, Nov 2015] |

Product images:



Circular map for RC230565