

Product datasheet for **RC237536**

HIP55 (DBNL) (NM_001284315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIP55 (DBNL) (NM_001284315) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIP55
Synonyms:	ABP1; HIP-55; HIP55; SH3P7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237536 representing NM_001284315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCAACAGCAATGACATCCGCTGGCTGGCACAGGGGGGGCCCATGTGACCATCAACGCACGGG
CCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAACTACAGCTT
TCACAAGGAGAGTGGCCGCTCCAGGACGTGGGACCCAGGCCCCAGTGGGCTCTGTGTACCAGAAGACC
AATGCCGTGTCTGAGATTAAGGGTTGGTAAAGACAGCTTCTGGCCAAAGCAGAGAAGGAGGAGGAGA
ACCGTCGGCTGGAGAAAAGCGCGGGCCGAGGAGGCACAGCGCAGCTGGAGCAGGAGCGCCGGGAGCG
TGAGCTGCGTGGAGCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCAGGCCAGCCCCAGAGC
AGGACGTGGGAGCAGCAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGA
GGGAGATTTTCAAGCAGAAGGAGAGGGCCATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCT
GAGGAGCCCTTCTGCAGAAGCAGCTCACCCAACAGAGACCCACTTTGGCAGAGAGCCAGCTGTCTGCC
ATCTCAAGGCCAGGGCAGATCTCCCTGCTGAGGAGCCGGCGCCAGCACTCCTCCATGTCTGGTGCAGG
CAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAGCAGGAGACCTTCTACGAGCAGCCCCACTGGTGCA
GCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCATTCAGGGCCAGGGGCTCAGTGGCAAGGGCTC
TGTGCCGTGCCCTGTACGACTACCAGGCAGCCGACGACACAGAGATCTCCTTTGACCCCGAGAACCTCA
TCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCGGATGGCCATTTGGCATGTT
CCCTGCCAACTACGTGGAGCTCATTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237536 representing NM_001284315
Red=Cloning site Green=Tags(s)

MKATAMTSAWLAQGGAHVTINARAEEDVEPECIMEKVAKASGANYSFHKESGRFQDVGQPAPVGSVYQKT
 NAVSEIKRVGKDSFWAKAEKEEENRRLEEKRAEEAQRQLEQERRERELREAAARREQRYQEQQGEASPQS
 RTWEQQQEVVSRNRNEQESAVHPREIFKQKERAMSTTSSISSPQPKLRSPFLQKQLTQPETHFGREPAAA
 ISRPRADLPAEEPAPSTPPCLVQAEAAAAYVEEPPPEQETFYEQPPLVQQQAGAGSEHIDHHIQGQGLSGQGL
 CARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYPDGHFGMFPANYVELIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001284315

ORF Size: 1008 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_001284315.1](#), [NP_001271244.1](#)

RefSeq Size: 2025 bp

RefSeq ORF: 1011 bp

Locus ID: 28988

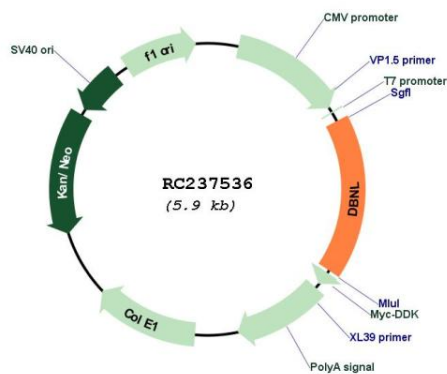
UniProt ID: [Q9UJU6](#)

Cytogenetics: 7p13

MW: 38.4 kDa

Gene Summary: Adapter protein that binds F-actin and DNM1, and thereby plays a role in receptor-mediated endocytosis. Plays a role in the reorganization of the actin cytoskeleton, formation of cell projections, such as neurites, in neuron morphogenesis and synapse formation via its interaction with WASL and COBL. Does not bind G-actin and promote actin polymerization by itself. Required for the formation of organized podosome rosettes (By similarity). May act as a common effector of antigen receptor-signaling pathways in leukocytes. Acts as a key component of the immunological synapse that regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC237536