

Product datasheet for **RC225720**

HIP55 (DBNL) (NM_001122956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIP55 (DBNL) (NM_001122956) 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)



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ORF Nucleotide Sequence:

>RC225720 representing NM_001122956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCGAACCTGAGCCGGAACGGGCCAGCGCTGCAAGAGGCCTACGTGCGGGTGGTCACCGAGAAGT
 CCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATCCGCGTGGCTGGCACAGGGGA
 GGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCCTTCTGCAGAGTGAAG
 GACCCCAACTCTGGACTGCCAAATTTGTCTCATCAACTGGACAGGCGAGGGCGTGAACGATGTGCGGA
 AGGGAGCCTGTGCCAGCCAGTCAGCACCATGGCCAGTTCCTGAAGGGGGCCATGTGACCATCAACGC
 ACGGGCCGAGGAGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAATAC
 AGCTTTCACAAGGAGAGTGGCCGCTCCAGGACGTGGGACCCAGGCCCCAGTGGGCTCTGTGTACCAGA
 AGACCAATGCCGTGTCTGAGATTAAGGGTTGGTAAAGACAGCTTCTGGCCAAAGCAGAGAAGGAGGA
 GGAGAACCGTCGGCTGGAGGAAAAGCGGGCCGAGGAGGCACAGCGGAGCTGGAGCAGGAGCGCCGG
 GAGCGTGAGCTGCGTGAGGCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCC
 AGAGCAGGACGTGGGAGCAGCAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGGGTCAACATGTGC
 TTCCCTCCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAGGAGAGGGCCATGTCCACCACC
 TCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCTTCTGCAGAAGCAGCTCACCCAACAGAGA
 CCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCAGGGCAGATCTCCCTGCTGAGGAGCCGGC
 GCCCAGCACTCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAGCAGGAG
 ACCTTCTACGAGCAGCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATTC
 AGGGCCAGGGGCTCAGTGGGCAAGGGCTCTGTGCCCGTGCCTGTACGACTACCAGGCAGCCGACGACAC
 AGAGATCTCCTTTGACCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGC
 TATGGCCGATGGCCATTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225720 representing NM_001122956
 Red=Cloning site Green=Tags(s)

MAANLSRNGPALQEAYVRVVEKSPDWDALFTYEGNSNDIRVAGTGEGGLEEMVEELNSGKVMYAFCRVK
 DPNSGLPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHV TINARAEEDVEPECIMEKVAKASGANY
 SFHKESGRFQDVGPQAPVGSVYQKTNAVSEIKRVGKDSFWAKAEKEEENRRLEEKRRAEAAQRQLEQERR
 ERELREAAARREQRYQEQQGEASPSRTWEQQQEVVSRNRNEQGSTCASLQESAVHPREIFKQKERAMSTT
 SISSPQPGKLRSPFLQKQLTQPETHFGREPAAAISRPRADLPAEEPAPSTPPCLVQAEAAVYEEPPPEQE
 TFYEQPLLVQQGAGSEHIDHIIQGQLSGQLCARALYDYQAADDTEISFDPENLITGIEVIDEGWWRG
 YGPDGHFGMFPANYVELIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8060_a10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001122956

ORF Size: 1317 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_001122956.2](#)

RefSeq ORF: 1320 bp

Locus ID: 28988

UniProt ID: [Q9UJU6](#)

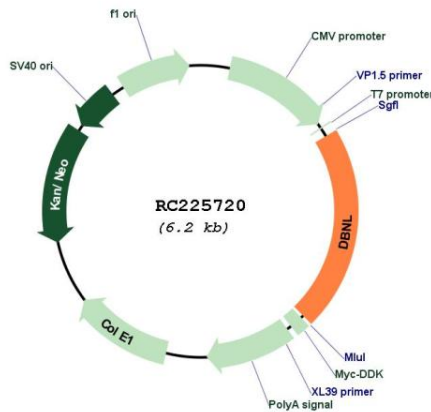
Cytogenetics: 7p13

MW: 48.9 kDa

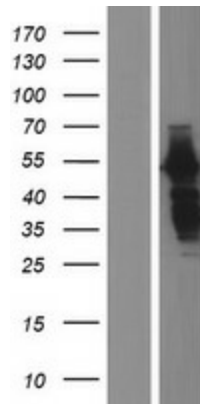
Gene Summary:

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 RC225720



Western blot validation of overexpression lysate (Cat# [LY426586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225720 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).