

## Product datasheet for **MR216542**

### Haspin (NM\_010353) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Haspin (NM_010353) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Haspin
Synonyms:	Gsg2; Haspin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216542 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCACAGGCTCACCCGCGGTCCGGTACCCGGCTCTTTCGAACGTACGCGGCGAGGGCGTCCGGGGT  
 CGCAGCGGCAGCCTGGCGGGCTGGCTGAGCAATGGTTCAGCCGCGGAACCTGAAGCGCGCTTCAGCAG  
 CAGCCTCAGCGACAGTAACGAGTCGCGGCTGTGCTTCCGACGACCCGACGACCCGACTTCCCCGGC  
 AGCCTCGTGGCCAGCGGCGAGGCGTCTCGGGCAGCGGCTCCCGAACAGCGGACCCTGACAAACA  
 CTCCAAGAGTCCAAGGCTGCGACCTCGGCCCCCGAGAAGTGCAGCACCCCGTGCAGCCGGCTGCGACC  
 GCCACCTTCCCCAACTGCAGCCCGGGTGCCTCGGGTCCGACCACAGTGTGTGCATCCAGTCCAGGGAC  
 AGCAACGAGCTGGGCACCAGTGCCTCCCTTTCAGCTCTCGGCCTCGCCCGAGCCCCGACCCTTTGT  
 ATGCTGACTCTGCAGTCCCCGGGAGCTTCCACTTGCCGGCAGCCTCCCTAAGTGAACCGTCTGTGCCCTG  
 CCCCCAGGTGGCAGCAACCGGTGACAGGTACACCGGGAGGGCCCTCCGAGCCGAAGCCAGCTTCAGTCA  
 TCTCTCTTTAGCCTTGTGAACCTCAGGGGCCACAGAAGAGAACAAGTTTGGGACAGATGGGGAGAATGTGA  
 AGGAATCGTGTGTGAAAGAAGACAGCAGATGGGAAACAGACTAACCGACCCCTGATCTGACAAGCCCGGG  
 AAAGAGAAAGGCCCGCTGTAAAAAGTTGTGTCCAAGGAGTCGACCAGAGAGACTATGAGGAGTCCAGT  
 GCTTGCAAAGACCTTCGTGTACCAGGGGAAATCAGCAGGCCTAAGAGAAGTGGGCCACTCCGGAAGAGGA  
 AACGGCAAGAAGCAACGGGAACCCCTCCCCGCCACTACCACCAATCTAAGAAGAAAAGGAAAAGCGTCAGT  
 CTCCTTATGGAACCTGAATACTAGCCAGAGGGATTCTTGGACAAAACCAGAGCCTCCTTCGGTTTCCAC  
 AAGAAGAAAATTATAACCAAGTGTGATAGAGGTATGCAGTCTGTGTCAGTCTTCTCCTCCAGGTCCCTCC  
 TGTCTGAATGTTCCGCCCTCTATCAAGAACAGAGCACACCTTACTGTTTCTTCTCGATGCTCTTCTGT  
 GTATTTGCTAAGTCCCTTAAAGACCCTGCATGTACAGACCAAAGGCCATCTTATGCTGAAAAGGTTTAT  
 GGGGAGTGAATCAGGAAGGGCCATCCCTTTAGTGATTGCCTTTCCACGGA AAAA ACTGGAACGGTGTG  
 AGAAGATTGGGAAGGAGTGTGGGAGAAGTGTTCAGATAATTAACGACCAAGCACCTGTAGCCCTAAA  
 AATCATTGCTATTGAAGGGTTAGATTTAGTCAATGGGTCCACCAGAAAACCTTTGAGGAAATCCTGCCG  
 GAGATCATTATCTCAAAGAGCTGAGTCTTGTCTAGTGAGGCCTACAACCGCACAGAAGGCTTTATTG  
 GGCTGAACCTCAGTACACTGTGTTCAAGGGCTTTACCCTCCCTGTGCTGAAAGCCTGGGATCACTATAA  
 CACAACCAAAAAGATCTGCCAATGACCGGCTGACTTTTTCCAGGAAGACCAGCTCTTTATTATCCTGGAA  
 TTTGAGTTTGGTGGGTTGACTTGGAGCGAATGAAAACCAAGCTGTCCTCTGTGGCGACTGCAAAGAGCA  
 TTCTCCACAGATCACCGCATCCCTGGCTGTGGCAGAAGCATCCCTGCATTTGAGCACCGGGACTTACA  
 CTGGGGAAATGTGCTCTTAAAGAAAACCAACCTCAAAGA ACTCCGCTACACCCTCAATGGGAAAACGAGC  
 ACCATTCCCACCCATGGGCTACAGGTCAACATCATTGACTACACCCTGTCCCGCTTGGAGCGGGATGGGA  
 TTGTGGTTTTCTGTGATATCTCCGCTGAAGAGGACCTATTACAGGTGAGGGTACTACCAGTTTGGAGT  
 CTACAGGCTCATGAGGAAGGAGAAACAAA ACTGCTGGGGTGAAGTATCACCTTACAATAATGTGCTGTGG  
 CTGCATTACCTCACAGACAAGATTCTGAATAAGATGAAATTTAAGACTAAATGCCAGAGCGCAGCCATGA  
 AGCAAATAAGGAAAACCTGCAACATTTCCACAGGACTGTACTGAGTTTCAGCTCTGCCACGGACCTGCT  
 CTGCCAACACAGTCTATTTAGG

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216542 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQAHPRSGTRLFRTYAARGVRSQRQPGGLAEQWFQPPNLKRAFSSSLSDSNESPAVASDDPDDPDFPG  
 SLVGQRRRRPRGSGSRNQRTL TNTPRVQRLRPRPPQKCTPCSRLRPPFPNCSPGCLGSDHSVCIQSRD  
 SNELGTSASLFSSPASPAPDPLYADSAVPGSFHLPAASLSEPSVPCQVAATGDRYTGRALRAEAFRS  
 SLFSLVNSGATEENKFGTDGENVKESCCERRQQMGNRL TDPDL TSPGKRKAACKKVVSQGVQDRDYEESS  
 ACKDLRVPGEISRPKRTGPLRKRKRQEATGTPPRHYHQSKKKRKASVSLWNLNTSQRDSWTKTRASFGFH  
 KKKIITSVIEVCSSVASSSRSLSECSTPPIKNRAHL TVSSRCSVYLLSPLKTLHVTDQRPSEAEKVY  
 GECNQEGPIPFSDCLSTEKLERCEKIGEGVFGEVFIINDQAPVALKIIAIEGLDLVNGSHQKTFFEEILP  
 EIIISKELSLLSSEAYNRTEGF IGLNSVHCVQGLYPLLLKAWDHYNNTKRSANDRPDFQEDQLFIIIE  
 FEFGGVDLERMKTKLSSVATAKILHQITASLAVAEASLHFEHRDLHWGNVLLKKTNLKELRYTLNGKTS  
 TIPTHGLQVNIIDYTL SRLERDGI VVFCDISAEEDLFTGEGDYQFEIYRLMRKENKNCWGEYHPYNNVWL  
 LHYLTDKILNKMFKTKCQSAAMKQIRKNLQHFHRTVLSFSSATDLLCQHSLFR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010353

**ORF Size:** 2265 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\\_010353.1](#), [NM\\_010353.2](#), [NP\\_034483.1](#)

**RefSeq Size:** 2818 bp

**RefSeq ORF:** 2265 bp

**Locus ID:** 14841

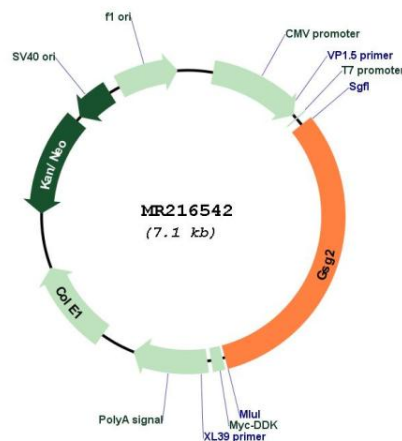
**UniProt ID:** [Q9Z0R0](#)

**Cytogenetics:** 11 45.25 cM

**MW:** 84.2 kDa

**Gene Summary:** Serine/threonine-protein kinase that phosphorylates histone H3 at 'Thr-3' (H3T3ph) during mitosis. May act through H3T3ph to both position and modulate activation of AURKB and other components of the chromosomal passenger complex (CPC) at centromeres to ensure proper chromatid cohesion, metaphase alignment and normal progression through the cell cycle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR216542