

Product datasheet for **SC314727**

Haspin (GSG2) (NM_031965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Haspin (GSG2) (NM_031965) Human Untagged Clone
Tag:	Tag Free
Symbol:	Haspin
Synonyms:	GSG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_031965, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTTCGCTCCCGGGACCTGGGAGCCGGCTTTCCGCACATATGGGGCTGCGGACGGCAGGAGAC
AGCGGCGCGCCGGCCGGGAAGCCGCGCAGTGGTCCCGCCGACGACCGGAGGCGTTTCTCAACAGCAG
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GCTGCGAGCTCGGCCCCCGCAGAAGTGCAGCACACCCTGCGGCCCGCTCCGACTTCCGCCCTTCCCGAGC
CGCGACTCCGGCCGCTCAGCCCGGACCTCAGCGTGTGCGGCCAGCCAGGGACGGCGACGAGTGGGCA
TCAGTGCCTCCCTGTTACGCTCTCTGCCCTCGCCCTGCCCGGGTCCCAACGCCAAGGGACAGTGCAT
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TCCCTGGACCGAGCATCTCTCCCTGCTCCAGGAGGAAGCGACAGGAGGAGCAAGGACACCAGGATGG
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TGAGTTTCGGGCAGATGGGAAGAATATGAGAGAGTCTGTGTAAGAAAGAACTGGTGGTGGGAAATGGA
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TCAAACCGGCTGTGATGAACAGAAACAAGTGGTGTCCGCTCCTTGGCACTCCTCCTATGATTTGTC
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CAGTCAGAAGGGTCTGTCCCCTTAGCCATTGCCTTCCACAGAAAACTGCAACGCTGTGAGAAGATT
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CATCTCCAAGAGTTGAGCCTCTATCCGGTGAAGTGTGCAACCGCACAGAAGGCTTTATCGGGCTGAAC
TCAGTGCCTGTGTCCAGGGATCTTACCCTCCCTGCTCCTCAAAGCCTGGGATCACTATAATTCAACCA
AAGGCTCTGCAAATGACCGGCTGATTTTTTTAAAGACGACCAGCTTTCATTGTGCTGGAATTTGAGTT
TGGAGGGATTGACTTAGAGCAAATGCGAACCAAGTTGTCTTCTTGGCTACTGCAAGAGCATTCTACAC
CAGCTCACAGCCTCCCTCGCAGTGGCAGAGGCATCACTGCGCTTTGAGCACCGAGACTTACACTGGGGGA
ACGTGCTCTTAAAGAAAACAGCCTCAAAAACTCCACTACACCCTCAATGGGAAGAGCAGCACTATCCC
CAGCTGTGGGTTGCAAGTGAAGCATATTGACTACACCCTGTGCGCTTGGAACGGGATGGGATTGTGGTT
TTCTGTGACGTTTCCATGGATGAGGACCTGTTTACCGGTGACGGTACTACAGTTTGCATCTACAGGC
TCATGAAGAAGGAGAATAACAACCGCTGGGGTGAATATCACCTTATAGTAATGTGCTCTGGTTACATTA
CCTGACAGACAAGATGCTGAAACAAATGACCTTCAAGACTAAATGTAACACTCCTGCCATGAAGCAAAT
AAGAGAAAAATCCAGGAGTTCACAGGACAATGCTGAACCTCAGCTCTGCCACTGACTTGCTCTGCCAGC
ACAGTCTGTTAAGTAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_031965 unedited GGTAACGTTTCAGATTTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATA CATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGG CGGGTGCCGGCCATGGCGGCTTCGCTCCCGGGACCTGGGAGCCGGCTTTTCCGCACATAT GGGGCTGCGGACGGCAGGAGACAGCGGCCGGCCGGGCGGAAGCCGCGCAGTGGTTCCCG CCCGCAGGACCGGAGGCGTTTCTTCAACAGCAGCGGCAGCAGCGACGCCAGCATCGGGCAG CCCTCGCAGTCCGACGATCCTGACGATCCCGACGACCCCGACTTCCCGGCAGCCCGGTG AGGCGGCCGGCGAGGTGTCCCGCGGCCGAGTGCCCAAGGACCGGCCAGCCTGACCGTG ACCCCAAAGCGCTGGAAGCTGCGAGCTCGCCAAAGCCTAACCGTGACCCAAAGACGCTG GGGCTGCGAGCTCGGCCCCCGCAGAAGTGCAACACACCCTGCGGCCCGCTCCGACTTCCG CACTTCCCGAGCCGGAATCCAGGCCGCTAAACCCGACCTCAAGCGGGGGCGGCCAGC CCAAGGACGGCGACGAGCTGGGCATCAGGGGCCTCCTGGTCGACGTATGTGGCATGGCC TGTCAGGAACCCGAACGGCTAGGGACAGGGCAACCTTGATCGGGACACTACGCGTGG TTGGGTGTCAACCTAAAATGGCAGAGAAAGGATGTAGCAGCCTGAAGTTGACCGTATACC GAAGAGATATCGCGAGCTCATCACTGAGTATGCCCGGTGAGAAGCGATGGAACGCAGGG GGTCTCCGACAAGTGCAAGCTGATGTTGTTAGTATGTTGCCGTTGGCCCGTTG
Restriction Sites:	Please inquire
ACCN:	NM_031965
Insert Size:	2800 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_031965.2</u> , <u>NP_114171.2</u>
RefSeq Size:	2797 bp
RefSeq ORF:	2397 bp
Locus ID:	83903
UniProt ID:	<u>Q8TF76</u>
Cytogenetics:	17p13.2

Protein Families: Druggable Genome, Protein Kinase

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]