

Product datasheet for **SC123040**

HRP2 (HDGFRP2) (NM_032631) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRP2 (HDGFRP2) (NM_032631) Human Untagged Clone
Tag:	Tag Free
Symbol:	HRP2
Synonyms:	HDGF-2; HDGF2; HDGFRP2; HRP-2; HRP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032631 edited
CGCCGCTGCAGCCGCTTTCCGCGCCTGGGCTCTCGCCGTCAGCATGCCACACGCCTTC
AAGCCCGGGGACTTGGTGTTCGTAAGATGAAGGGCTACCCTCACTGGCCTGCCAGGATC
GACGACATCGCGGATGGCGCCGTGAAGCCCCACCAACAAGTACCCCATCTTTTTCTTT
GGCACACAGAAACAGCCTTCTGGGACCAAGGACCTGTTCCCTACGACAAATGTAAA
GACAAGTACGGGAAGCCCAACAAGAGGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAG
AACACCACCCAGCCAGCTACAGCGCCCTCCGCCAGTGAGCTCCTCCGACAGCGAGGCC
CCCGAGGCCAACCCCGCGACGGCAGTGACGCTGACGAGGACGATGAGGACCGGGGGTTC
ATGGCCGTACAGCGGTAAACCGCCACAGCTGCCAGCGACAGGATGGAGAGCGACTCAGAC
TCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCTGCGCTAAAGATGTGC
GTCTCGAAACGAGCCGAAAGGCCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCATCC
GAAGAGGAGAAGTTCGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACAGGACTTCACA
CCTGAGAAAGAACGAGCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGACGGAAAAAA
AAGAAGGGCCGTCAGCCTCCGACTCCGACTCCAAGGCCGATTCCGACGGGGCCAAGCCT
GAGCCGTTGGCCATGGCGCGGTGGCGTCTCCTCCTCTTCTCCTCCTCCTCCGAC
TCCGATGTGTCTGTGAAGAAGCCTCCGAGGGGACAGGAAGCCAGCGGAGAAGCCTCTCCCG
AAGCCCGAGGGCGGAAACCGAAGCCTGAACGGCCTCCGTCCAGTCCAGCAGTGACAGT
GACAGCGACGAGGTGGACCGCATCAGTGAGTGAAGCGGGCGGACGAGGCGGGAGGGCGC
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GAGAAGGAGGAGAAGGAGCGGAGGCGGAGCGGGCCGACCGCGGGGAGGCTGAGCGGGGC
AGCGGCGCAGCAGCGGGGACGAGCTCAGGAGGACGATGAGCCCGTCAAGAAGCGGGGA
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AAACCTGGCCAGAAGGAGAAGAGAGTGGCGCCGAGGAGAAGCAACAAGCCAAGCCCGTG
AAGGTGGAGCGGACCCGGAAGCGGTCCGAGGGTCTCGATGGACAGGAAGGTAGAGAAG
AAGAAAGAGCCCTCCGTGGAGGAGAAGTGCAGAAGTGCACAGTGAAGTCAAGTTTGGC
CTAAAGGTCGACAGCCCGGACGTGAAGAGGTGCCTGAATGCCCTAGAGGAGCTGGGAACC
CTGCAGGTGACCTCTCAGATCCTCCAGAAGAACACAGACGTGGTGGCCACCTTGAAGAAG
ATTCGCCGTTACAAAGCGAACAAGGACGTAATGGAGAAGGCAGCAGAAGTCTATACCCGG
CTCAAGTCGCGGGTCTCGGCCAAAGATCGAGGCGGTGCAGAAAGTGAACAAGGCTGGG
ATGGAGAAGGAGAAGGCCGAGGAGAAGTGGCCGGGAGGAGCTGGCCGGGGAGGAGGCC
CCCCAGGAGAAGGCGGAGGACAAGCCAGCACCGATCTCTCAGCCCCAGTGAATGGCGAG
GCCACATCACAGAAGGGGAGAGCGCAGAGGACAAGGAGCACGAGGAGGGTTCGGGACTCG
GAGGAGGGGCCAAGGTGTGGCTCCTCTGAAGACCTGCACGACGTACGGGAGGGTCCCAGC
CTGGACAGGCCTGGGAGCGACCGGCAGGAGCGCGAGAGGGCACGGGGGACTCGGAGGCC
CTGGACAGGAGAGCTGAGCCGCGGGCAGCCAGGCCAGCCCCGCCCCGAGCTCAGGCTG
CCCCTCTCCTTCCCCGGTCCGAGGAGAGCAGAGCAGAGAAGTGTGGGAACGCTGTGCT
GTTTGTATTTGTCCCTTGGGTTTTTTTTTCTGCCTAATTTCTGTGATTTCCAACCAAC
ATGAAATGACTATAAACGGTTTTTTAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032631 unedited NAATGCAGTTCANATATTGTAATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGG CGCCGCTGCAGCCGCTTCCGCGGCCTGGGCCTCTCGCCGTCAGCATGCCACACGCCTTC AAGCCCGGGGACTTGGTGTTCGCTAAGATGAAGGGCTACCCTCACTGGCCTGCCAGGATC GACGACATCGCGGATGGCGCCGTGAAGCCCCACCAACAAGTACCCCATCTTTTTCTTT GGCACACACGAAACAGCCTTCTGGGACCAAGGACCTGTTCCCTACGACAAATGTAAA GACAAGTACGGGAAGCCCAACAAGAGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAG AACAAACCCACGCCAGCTACAGCGCCCTCCGCCAGTGAGCTCCTCCGACAGCGAGGCC CCCGAGGCCAACCCCGCGACGGCAGTGACGCTGACGAGGACGATGAGGACCGGGGGTTC ATGGCCGTACAGCGGTAACCGCCACAGCTGCCAGCGACAGGATGGAGAGCGACTCAGAC TCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCTGCGCTAAAGATGTGC GTCTCGAAACGAGCCGAAAGGCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCATCC GAAGAGGAGAAGCTCGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACCAGGACTCACA CCTGAGAAAGAAAGCAGCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGACGGAAAAA AAGAGGCGCCGTGAGNCTCGACTCCGACTCCCAAGCCGATTTGACGGGGCCAAGCCTG AGCCGGTGGCCAGGGCGCGGTGCGCTCCTCTCTCTCTT
Restriction Sites:	Please inquire
ACCN:	NM_032631
Insert Size:	2305 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).
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_032631.2 , NP_116020.1
RefSeq Size:	2341 bp
RefSeq ORF:	2013 bp
Locus ID:	84717
UniProt ID:	Q7Z4V5
Cytogenetics:	19p13.3

Gene Summary:

This gene encodes a member of the hepatoma-derived growth factor (HDGF) family. The protein includes an N-terminal PWWP domain that binds to methyl-lysine-containing histones, with specific binding of this protein to tri-methylated lysines 36 and 79 of histone H3, and di- and tri-methylated lysine 20 of histone H4. The protein functions in LEDGF/p75-independent HIV-1 replication by determining HIV-1 integration site selection. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (2) that is 1 aa shorter than isoform 1.