

Product datasheet for **RG208049**

HIRA (NM_003325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIRA (NM_003325) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIRA
Synonyms:	DGCR1; TUP1; TUPLE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208049 representing NM_003325 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTCCTGAAGCCGACCTGGGTCAACCACAATGGCAAGCCGATTTTTTCAGTTGATATTCACCCTG
ACGGGACCAAGTTCGCAACTGGAGGACAAGGGCAGGATTCTGGGAAGGTTGTGATCTGGAATATGTCTCC
AGTCTCCAGGAGGATGACGAGAAGGATGAAAAATATCCCAAGATGCTTGGCCAGATGGACAATCACTTA
GCATGTGTGAAGTGTGTGCGGTGGTCAAACAGTGGGATGATTTAGCTTCTGGGGGAGATGACAACTGA
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TGTGGAGCAGTGGCGGTGTGTCTATCCTCCGGAATCATTAGGCGATGTGATGGATGTAGCATGGTCT
CCCCACGATGCCTGGCTAGCCTCATGCAGCGTGGATAAAGTGTGCTGATCTGGAATGCTGTAAAGTTCC
CAGAAATCTAGCTACTCTGAGAGGTCATTCTGGCTTGGTCAAAGGGTTGACATGGGACCCTGTTGGTAA
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ACCATGCTCTTCTCATAGCAGTCCACAGCTACTGCCACTGGACTCCAGTACCCCTAACTCCTTCGGCG
 CCTCGAAGCCTTGACAGAGCCTGTGGTGGCTGCCAGTGCCAGACCTGCAGGCGATTCTGTCAATAAAGA
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 CTGCGGAAGAGGGAGCTGCTGAAGGAGCTGCTACCAGTACATCGGGCAGAACCTCCGATCCAGCGCTCT
 TCACCGAGTGTGAGAACAGCTCGACATCCTGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208049 representing NM_003325
 Red=Cloning site Green=Tags(s)

MKLLKPTWVNHNGKPIFVSVDIHPDGTKFATGGQGDQSGKVVIIWNMSPVLQEDDEKDENIPKMLCQMDNHL
 ACVNCVRWSNSGMYLASGGDKLIMVWKRTYIGPSTVFGSSGKLANVEQWRCVSIILRNHSGDVMVDAWS
 PHDAWLASCSVDNTVVIWNAVKFEILATLRHSGLVKGLTWDPVGKYIASQADDRSLKVVWRTLWQLET
 SITKPFDECGGTHVLRLSWSPDGHYLSAHAMNNSGPTAQIIEREGWKTNMDVFGHRKAVTVVFKFNPKI
 FKKKQKNGSSAKPSCPYCCCAVGSKDRSLSVWLTCLKRPLVVIHELFDKSIDISWTLNGLGILVCSMDG
 SVAFLDFSQDELGDPLSEEEKSRIHQSTYGKSLAIMTEAQLSTAVIENPEMLKYQRRQQQQLDQKSAAT
 REMGSATSVAGVNGESLEDIRKNLLKKQVETRTADGRRRITPLCIAQLDTGDFSTAFFNSIPLSGSLAG
 TMLSSHSSPQLPLDSSTPNSFGASKPCTEPVVAASARPAGDSVNKDSMNATSTPAALSPSVLTPPSKIE
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 SMYIEVENEVTVVGGVKLSRLKCNREGKEWETVLTSRILTAAGSCDVVVCACEKRLSVFSTCGRLLSP
 ILLPSPISTLHCTGSYVMALTAAATLSVWDVHRQVVVVKEESLHSLAGSDMTVSQILLTQHGIPIVMNLS
 DGKAYCFNPSSLTWNLVSDKQDSLQCADFRSSLPSQDAMLCGSLAI IQGRTSNSGRQAARLFVPHVV
 QQETTLAYLENQVAAALTLQSSHEYRHLLVYARYLVNEGFEYRLREICKDLLGPVHYSTGSQWESTVVG
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TRTRPLE - GFP Tag - V

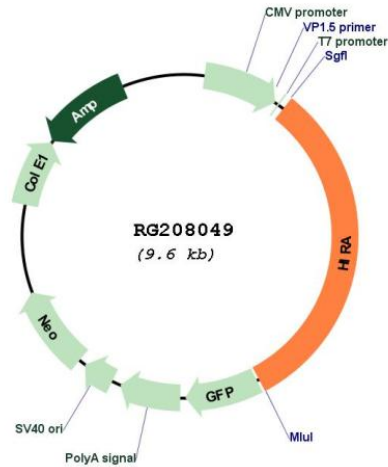
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_003325

ORF Size: 3051 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:	<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_003325.4
RefSeq Size:	4013 bp
RefSeq ORF:	3054 bp
Locus ID:	7290
UniProt ID:	P54198
Cytogenetics:	22q11.21
Domains:	WD40
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a histone chaperone that preferentially places the variant histone H3.3 in nucleosomes. Orthologs of this gene in yeast, flies, and plants are necessary for the formation of transcriptionally silent heterochromatin. This gene plays an important role in the formation of the senescence-associated heterochromatin foci. These foci likely mediate the irreversible cell cycle changes that occur in senescent cells. It is considered the primary candidate gene in some haploinsufficiency syndromes such as DiGeorge syndrome, and insufficient production of the gene may disrupt normal embryonic development. [provided by RefSeq, Jul 2008]