

Product datasheet for **RG220280**

HIC5 (TGFB111) (NM_001042454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIC5 (TGFB111) (NM_001042454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGFB111
Synonyms:	ARA55; HIC-5; HIC5; TSC-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220280 representing NM_001042454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGACCTGGATGCCCTGCTCTGACCTGGAGACTACCACCTCGCACATGCCAAGGTCAGGGGCTC
 CCAAAGAGCGCCCTGCGGAGCCTCTCACCCCTCCCCATCCTATGGCCACCAGCCACAGACAGGGTCTGG
 GGAGTCTTCAGGAGCCTCGGGGACAAGGACCCTGTACAGCACGGTATGCAAGCCTCGGTCCCAAAG
 CCTGCAGCCCCGGCGGCCCTCCATTCTCTCTCCAGCGGTGTCTTGGGTACCGGGCTCTGTGAGCTAG
 ATCGGTTGCTTCAGGAACCTAATGCCACTCAGTTCAACATCACAGATGAAATCATGTCTCAGTTCCCATC
 TAGCAAGTGGCTTCAGGAGAGCAGAAGGAGGACCAGTCTGAAGATAAGAAAAGACCCAGCCTCCCTTC
 AGCCCGTCTCTGGCCTCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCT
 CACTCTCTGACTCCGCGTTCAAACCATCTCCAGCCTCTGGGCAACTCAGCCACCGGTGGTGAAGCTC
 CACAAATGAGGGTCCCCATCCCCACCAGAGCCGACTGGCAAGGGCAGCCTAGACACCATGCTGGGGCTG
 CTGCAGTCCGACCTCAGCCGCGGGGTGTCCACCCAGGCCAAAGGCCTCTGTGGCTCCTGCAATAAAC
 CTATTGCTGGGCAAGTGGTGACGGCTCTGGGCCGCGCCTGGCACCCGAGCACTTCGTTTGGGAGGCTG
 TTCCACCGCCCTGGGAGGCAGCAGCTTCTTCGAGAAGGATGGAGCCCCCTTCTGCCCCGAGTGTACTTT
 GAGCGCTTCTCGCCAAGATGTGGCTTCTGCAACCAGCCATCCGACACAAGATGGTGACCGCCTTGGGCA
 CTCACTGGCACCCAGAGCATTCTGTGCTGCTCAGTTGCGGGGAGCCCTTCGGAGATGAGGGTTTCCACGA
 GCGCGAGGGCCGCCCTACTGCCCGGGACTTCTGCAGCTGTTGCCCCGCGCTGCCAGGGTCCAG
 GGCCCCATCCTGGATAACTACATCTCGGCGCTCAGCGCGCTCTGGCACCCGGACTGTTTCGTCTGCAGGG
 AATGCTTCGCGCCCTTCTCGGAGGCAGCTTTTTCGAGCACGAGGGCCGCCCTTGTGCGAGAACCCTT
 CCACGCACGACGCGGCTCGCTGTGCGCCACGTGTGGCCTCCCTGTGACCGGCGCTGCGTGTGCGCCCTG
 GGTGCGCGCTTCCACCCGAGCCTTACATGCACCTTCTGCCTGCGCCCGCTACCAAGGGTCTCTCC
 AGGAGCGCGCGCAAGCCCTACTGCCAGCCCTGCTTCTGAAGCTCTTCGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220280 representing NM_001042454
 Red=Cloning site Green=Tags(s)

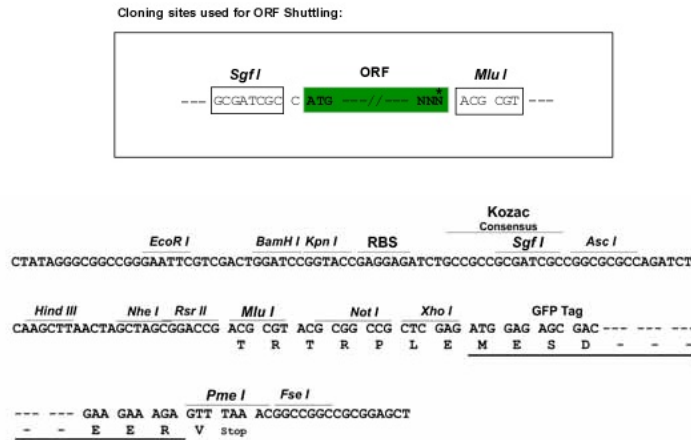
MEDLDALLSDLETTTSHMPRSGAPKERPAEPLTPPPSYGHQPQTGSGESSGASGDKDHLYSTVCKPRSPK
 PAAPAAPPFSSSSGVLGTGLCELDRLQLLNATQFNITDEIMSQFPSSKVASGEQKEDQSEDKKRPSLPS
 SPSPGLPKASATSATLELDRLMASLSDFRVQNHLPASGPTQPPVVSSTNEGSPSPPEPTGKGS�DMLGL
 LQSDLRRGVPTQAKGLCGSCNKPIAGQVVITALGRAWHPEHFVCGGCSTALGGSSFFEKDGAPFCPECYF
 ERFSPRCGFCNQPIRHKMVTALGTHWHPEHFCCVSCGEPFGDEGFHEREGRPYCRRDFLQLFAPRCQGCQ
 GPILDNYISALSALWHPDCFVCRECFAPFSGGSFFEHEGRPLCENHFHARRGSLCATCGLPVTGRCVSAL
 GRRFHPDHFTCTFCLRPLTKGSFQERAGKPYCQPCFLKLF

TRTRPLE – GFP Tag – V

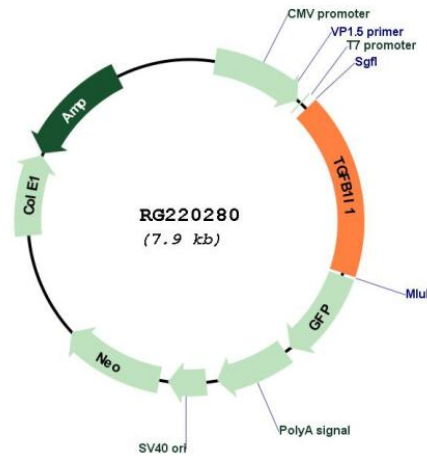
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042454

ORF Size: 1383 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:	<u>NM_001042454.3</u>
RefSeq Size:	1794 bp
RefSeq ORF:	1386 bp
Locus ID:	7041
UniProt ID:	<u>O43294</u>
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a coactivator of the androgen receptor, a transcription factor which is activated by androgen and has a key role in male sexual differentiation. The encoded protein is thought to regulate androgen receptor activity and may have a role to play in the treatment of prostate cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]