

Product datasheet for **RG212049**

PYHIN1 (NM_198928) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PYHIN1
Synonyms:	IFIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG212049 representing NM_198928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAAATAACTACAAGAAAATTGTTCTACTGAAAGGATTAGAGGTCATCAATGATTATCATTTTAGAA
 TTGTTAAGTCCTTACTGAGTAACGATTTAAACTTAATCCAAAAATGAAAGAAGAGTATGACAAAATTCA
 GATTGCTGACTTGATGGAGGAAAAGTTCACAGGTGATGCCGGTTTGGGCAAACTAATAGAATCTTCAAA
 GAAATACCAACACTGGGAGACCTTGCTGAAACTCTTAAAGAGAAAAGTTAAAGTCAAAGGAATATCC
 CATCTAAAAAGACGAAACAGAAAGAAGTGTATCCTGCTACACCTGCATGCACCCCAAGCAACCGTCTCAC
 AGCTAAAGGAGCAGAGGAGACTCTTGGACCTCAGAAAAGAAAAAACCATCTGAAGAAGAGACTGGAACC
 AAAAGGAGTAAGATGTCCAAGAGCAGACTCGGCCTTCTGCTCTGCAGGAGCCAGCACGTCCACAGCCA
 TGGGCCGTTCCCCACCTCCCGAGCCTCATCATCAGCTCCACCAACACTTCTCAACTGAGAGCCTAA
 ACCATTGGCCAACCGTCACGCAACTGCCAGTAAAAATATTTCCGAGAAGACCAATAATCGCGATGGTA
 CTAAATGCAACAAAAGTATTTAAATATGAATCCTCAGAAAAATGAGCAAAAGAAATGTTTCATGCTACAG
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 GAGAATCATCATTATATCAAATTATTCAAACGTAATAGTCTCCTAGAGGTGAATGAAGCCTCTTCTGT
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 AGATCAATATTCTTCAACAACTTCAGGATATATTGTATATGGATTATTTATGCTACATACGAAAAAT
 TGTAATAGGAAGACGACAATCTATGAAATTCAGGATAAAACAGGAAGTATGGCTGTAGTAGGAAAAGGA
 GAATGCCACAATATCCCTGTGAAAAGGAGATAAGCTTCGACTCTTCTGCTTTCGACTGAGAAAGAGGG
 AAAATATGTCAAACTGATGTCAGAAATGCATAGTTTCATCCAGATACAGAAAAATACAAACCAGAGAAG
 CCATGACTCCAGGAGCATGGCACTACCCAGGAACAGAGTCAGCATCCAAACCTTCAGAGGCCAGCACA
 ACCCTACCTGAAAGCCATCTCAAGACTCCTCAGATGCCACCAACAACCCATCCAGCAGTTCCTTACCA
 AGAAGGATGAAACCCAGGAGCAGTCATCGCCTGCAAACTTTAGAATCACCTCACCAACTGTGGC
 CCCTCTCTTCTCTGACACTTCCACCAACCGCCATCCAGCAGTTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

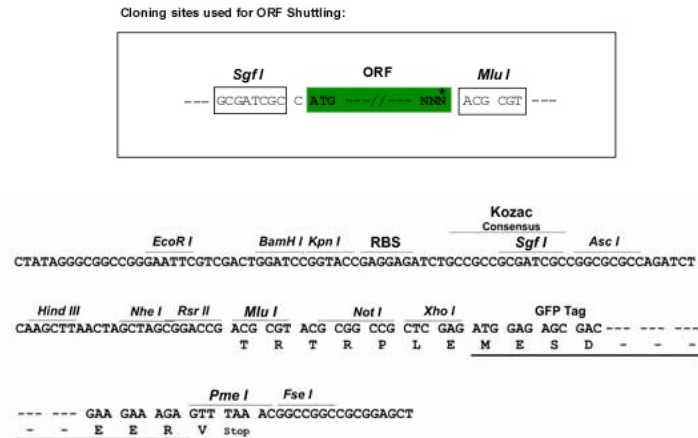
Protein Sequence: >RG212049 representing NM_198928
 Red=Cloning site Green=Tags(s)

MANNYKKIVLLKGLEVIN DYHFRIVKSLLSNDLKLNPKMKEEYDKIQIADLMEEKFPGDAGLGKLIIEFFK
 EIPTLGDLAETLKREKLKVGIIIPSKTKQKEVYPATPACTPSNRLTAKGAEETLGPQKRKKPSEETGT
 KRSKMSKEQTRPSCSAGASTAMGRSPPPQTSSAPPNTSSTESLKPLANRHATASKNIFREDPIAMV
 LNATKVFKEYESSENEQRRMFHATVATQTQFFHVKVLNINLKRKFIKKRIIISNYSKRNSLLEVNEASSV
 SEAGPDQTFEVPKDIIRRAKKIPKINILHKQTSYIVYGLFMLHTKIVNRKTTIYEIQDKTGSMAVVGK
 ECHNIPCEKGDKLRLFCFRLRKRENMSKLMSEMHSFIQIQKNTNQSHDSRSMALPQEQSQHPKPSEAST
 TLPESHLKTPQMPPTTPSSSFTKKDETHPGAQSSPANFRITSPTVAPPLSSDSTSNRHPAVP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_198928

ORF Size: 1449 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.

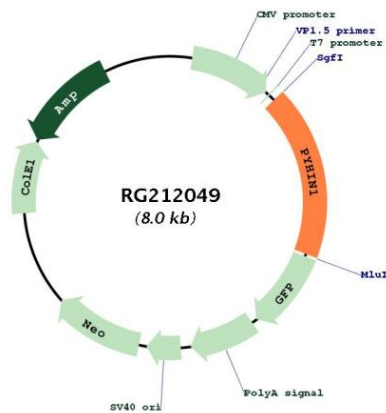
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198928.5](#)

RefSeq Size: 1722 bp
RefSeq ORF: 1452 bp
Locus ID: 149628
UniProt ID: [Q6K0P9](#)
Cytogenetics: 1q23.1

Gene Summary: The protein encoded by this gene belongs to the HIN-200 family of interferon-inducible proteins that share a 200-amino acid signature motif at their C-termini. HIN200 proteins are primarily nuclear and are involved in transcriptional regulation of genes important for cell cycle control, differentiation, and apoptosis. Downregulation of this gene is associated with breast cancer. This protein acts as a tumor suppressor by promoting ubiquitination and subsequent degradation of MDM2, which leads to stabilization of p53/TP53. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG212049