

Product datasheet for **RG215599**

P3H3 (NM_014262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	P3H3
Synonyms:	GRCB; HSU47926; LEPREL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG215599 representing NM_014262
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTCCGGCTCCTCCGGCCGCTGCTGCTACTGCTGCTGCTGCCTCCCCGGGGTCCCCTGAGCCCCCG
 GCCTGACCCAGCTGTCCCGGGGGCGCCCCCGCAGGCCCGGACTTGCTCTACGCTGACGGGCTGCGCGC
 CTACGCGGGCCGGGCTTGGGCGCCGGCCGTGGCGCTGCTGCGGGAGGCGCTGCGGAGCCAGGCGCGCTG
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 TGAGCACAGGGAGCAGGAGTGGACAGAAAGCAAGAACTGCTGCAGGAGTCAAGAGGAGGAGGAAGAG
 GAAGAGGAAGAAATGCCAGCAAGACCCCTCCCGAGAGCCCCCTAGCCGAGGCACCAAGAGGGTCCAAG
 ACAAGACTGGAAGGGCACCTCGGGTTCGGGAGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215599 representing NM_014262

Red=Cloning site Green=Tags(s)

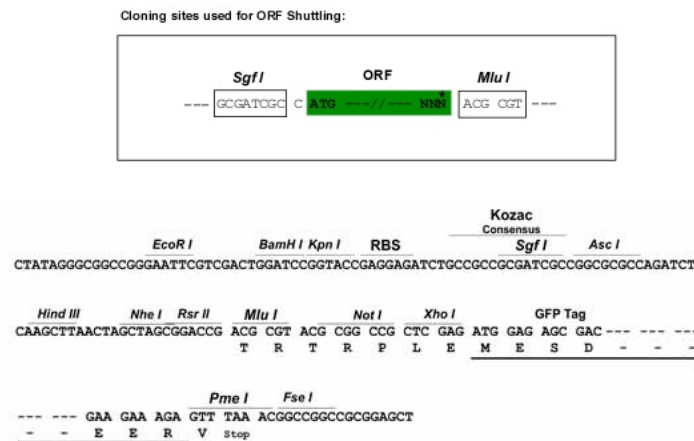
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ALTVTARVPRCGRLVAFSSGVENPHGVWAVTRGRRCALALWHTWAPEHREQEWEAKELLQESQEEEE
EEEEMPSKDPSPEPPSRRHQVQDKTGRAPRVREEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_014262

ORF Size:

2208 bp

OTI Disclaimer:

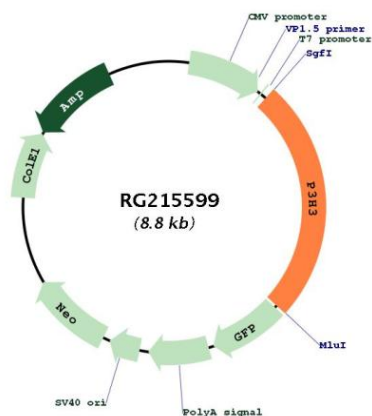
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_014262.2 , NP_055077.2
RefSeq Size:	2893 bp
RefSeq ORF:	2211 bp
Locus ID:	10536
UniProt ID:	Q8IVL6
Cytogenetics:	12p13.31
Domains:	2OG-Fell_Oxy, P4Hc
Gene Summary:	The protein encoded by this gene belongs to the leprecan family of proteoglycans, which function as collagen prolyl hydroxylases that are required for proper collagen biosynthesis, folding and assembly. This protein, like other family members, is thought to reside in the endoplasmic reticulum. Epigenetic inactivation of this gene is associated with breast and other cancers, suggesting that it may function as a tumor suppressor. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG215599