

Product datasheet for **RC203248**

Pleiotrophin (PTN) (NM_002825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pleiotrophin (PTN) (NM_002825) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pleiotrophin
Synonyms:	HARP; HB-GAM; HBBM; HBGF-8; HBGF8; HBNF; HBNF-1; NEGF1; OSF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203248 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGCTCAACAGTACCAGCAGCAGCGTCGAAAATTTGCAGCTGCCTTCTGGCATTCAATTTTCATAC
TGGCAGCTGTGGATACTGCTGAAGCAGGAAGAAAGAGAAACCAGAAAAAAGTGAAGAAGTCTGACTG
TGGAGAATGGCAGTGGAGTGTGTGTGTGCCACCAGTGGAGACTGTGGGCTGGGCACACGGGAGGGCACT
CGGACTGGAGCTGAGTGAAGCAAACCATGAAGACCCAGAGATGTAAGATCCCCTGCAACTGGAAGAAGC
AATTTGGCGCGGAGTGAATAACAGTTCAGGCCTGGGAGAATGTGACCTGAACACAGCCCTGAAGAC
CAGAACTGGAAGTCTGAAGCGAGCCCTGCACAATGCCGAATGCCAGAAGACTGTCAACCATCTCCAAGCCC
TGTGGCAAAGTGAAGCCCAAACCTCAAGCAGAATCTAAGAAGAAGAAAAGGAAGGCAAGAAACAGG
AGAAGATGCTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC203248 protein sequence Red=Cloning site Green=Tags(s)
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MQAQQYQQRRKFAAAFLAFIFILAAVDTAEAGKKEKPEKVKKSDCGEWQWSVCVPTSGDCGLGTREGT
RTGAECKQTMKTQRCKIPCNWKKQFGAECKYQFQAWGECDLNTALKTRTGSLKRALHNAECQKTVTISKP
CGKLTkPKPQAESKkkkkEGKKQEKMLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6051_h06.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002825

ORF Size: 504 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.

RefSeq: [NM_002825.7](#)

RefSeq Size: 1558 bp

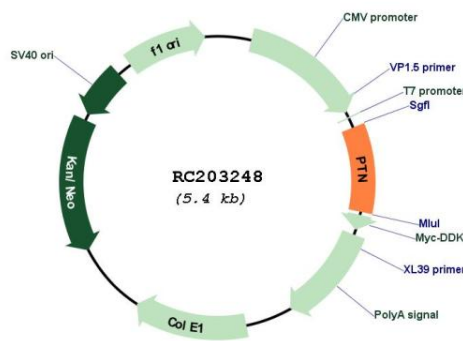
RefSeq ORF: 507 bp

Locus ID: 5764

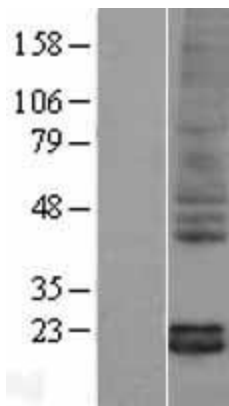
UniProt ID: [P21246](#)

Cytogenetics:	7q33
Domains:	PTN
Protein Families:	Druggable Genome, Phosphatase, Secreted Protein, Transmembrane
MW:	18.9 kDa
Gene Summary:	The protein encoded by this gene is a secreted heparin-binding growth factor. The protein has significant roles in cell growth and survival, cell migration, angiogenesis and tumorigenesis. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RC203248



Western blot validation of overexpression lysate (Cat# [LY401001]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).