

Product datasheet for **RG206545**

HABP2 (NM_004132) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HABP2 (NM_004132) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HABP2
Synonyms:	FSAP; HABP; HGFAL; NMTC5; PHBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206545 representing NM_004132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGCCAGGATGTCTGATCTCCATGTTCTGCTGTTAATGGCTCTGGTGGGAAAGACAGCCTGTGGGT
 TCTCCCTGATGTCTTTATTGGAAAAGCCTGGACCCAGACTGGACCCCTGACCAGTATGATTACAGCTACGA
 GGATTATAATCAGGAAGAGAACCACAGTAGCACACTTACCCACGCTGAGAATCCTGACTGGTACTACACT
 GAGGACCAAGCTGATCCATGCCAGCCCAACCCCTGTGAACACGGTGGGGACTGCCTCGTCCATGGGAGCA
 CCTTCACATGCAGCTGCCTGGCTCCTTTCTCTGGGAATAAGTGTGAGAAAGTGCAAAATACGTGCAAGGA
 CAACCCATGTGGCCGGGGCCAATGTCTCATTACCCAGAGTCTCCCTACTACCGTGTGTCTGTAACAC
 CCTTACACAGGTCCAGCTGCTCCCAAGTGGTTCCTGTATGCAGGCCAAACCCCTGCCAGAATGGGGCTA
 CCTGCTCCCGCATAAGCGGAGATCCAAGTTCACCTGTGCCTGTCCCGACCAGTTCAGGGGAAATCTG
 TGAATAGGTTCTGATGACTGCTATGTTGGCGATGGCTACTCTTACCGAGGGAAAATGAATAGGACAGTC
 AACCAGCATGCGTGCCTTACTGGAACCTCCACCTCCTCTTGCAGGAGAAATTACAACATGTTTATGGAGG
 ATGCTGAAACCCATGGGATTGGGGAACACAATTTCTGCAGAAACCCAGATGCGGACGAAAAGCCCTGGTG
 CTTTATTAAGGTTACCAATGACAAGGTGAAATGGGAATACTGTGATGTCTCAGCCTGCTCAGCCCAGGAC
 GTTGCCTACCCAGAGGAAAGCCCACTGAGCCATCAACCAAGTTCGGGGTTTGACTCCTGTGGAAAGA
 CTGAGATAGCAGAGAGGAAGATCAAGAGAATCTATGGAGGCTTTAAGAGCACGGCGGGCAAGCACCCATG
 GCAGGCGTCCCTCCAGTCTCGCTGCCTCTGACCATCTCCATGCCCCAGGGCCACTTCTGTGGTGGGGCG
 CTGATCCACCCCTGCTGGGTGCTCACTGCTGCCACTGCACCCGACATAAAAACCAGACATCTAAAGGTGG
 TGCTAGGGGACCAGGACCTGAAGAAAGAAGAATTCATGAGCAGAGCTTTAGGGTGGAGAAGATATTCAA
 GTACGCCACTACAATGAAAGAGATGAGATTCGCCACAATGATATTGCATTGCTCAAGTTAAAGCCAGTG
 GATGGTCACTGTCTCTAGAATCCAATACGTGAAGACTGTGTGCTTGCCTGATGGGTCCTTCCCTCTG
 GGAGTGAGTGCCACATCTCTGGCTGGGGTGTACAGAAACAGGAAAAGGGTCCCAGCAGCTCCTGGATGC
 CAAAGTCAAGCTGATTGCCAACACTTTGTGCAACTCCCGCAACTCTATGACCACATGATTGATGACAGT
 ATGATCTGTGCAGGAAATCTTCAGAAACCTGGGCAAGACACCTGCCAGGGTACTCTGGAGGCCCCCTGA
 CCTGTGAGAAGGACGGCACCTACTACGTCTATGGGATAGTGAGCTGGGGCCTGGAGTGTGGGAAGAGGCC
 AGGGTCTACACCAAGTTACCAAAATTCCTGAATTGGATCAAAGCCACCATCAAAGTGAAGTGGCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence:

>RG206545 representing NM_004132
 Red=Cloning site Green=Tags(s)

MFARMSDLHVLMLALVGKTACGFLMSLLESLDPDWPDPQYDYSYEDYNQEENTSSLTHAENPDWYYT
 EDQADPCQPNPCEHGGDCLVHGSTFTCSCLAPFSGNKQKQVQNTCKDNPCGRGQCLITQSPYYRCVCKH
 PYTGPSQVVPVCRPNPCQNGATCSRHKRRSKFTCACPDQFKGKFCFIGSDDCYVGDGYSYRGKMNRTV
 NQHACLWNSHLLLQENYNMFEDAETHGIGEHNF CRNPDADEKPWCFIKVTNDKVKWEYCDVSACSAQD
 VAYPEESPTEPSTKLPGFDSGKTEIAERKIKRIYGGFKSTAGKHPWQASLQSSPLTISMPQGHFCGGA
 LIHPCWVLTAAHCTDIKTRHLKVVLDQDLKKEEFHEQSFVKEIFKYSHYNERDEIPHNDIALLKLPV
 DGHCALESKYVKTVCLPDGFSFSGSECHISGWGVTETGKGSRQLLDAKVKLIANTLCNSRLYDHMIDDS
 MICAGNLQKPGQDTCQDSSGGPLTCEKDGTYVYVGI VSWGLECGKRPVYTVQVTKFLNWIKATIKSESGF

TRTRPLE – GFP Tag – **V**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004132

ORF Size: 1680 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_004132.5](#)

RefSeq Size: 3008 bp

RefSeq ORF: 1683 bp

Locus ID: 3026

UniProt ID: [Q14520](#)

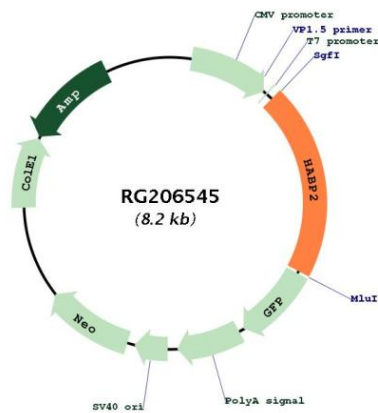
Cytogenetics: 10q25.3

Domains: KR, Tryp_SPc, EGF, EGF

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: This gene encodes a member of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by hepatocytes and proteolytically processed to generate heavy and light chains that form the mature heterodimer. Further autoproteolysis leads to smaller, inactive peptides. This extracellular protease binds hyaluronic acid and may play a role in the coagulation and fibrinolysis systems. Mutations in this gene are associated with nonmedullary thyroid cancer and susceptibility to venous thromboembolism. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG206545