

## Product datasheet for **RG230243**

### **HABP2 (NM\_001177660) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | HABP2 (NM_001177660) 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:**

>RG230243 representing NM\_001177660  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTTTATTGGAAAGCCTGGACCCAGACTGGACCCCTGACCAGTATGATTACAGCTACGAGGATTATA  
 ATCAGGAAGAGAACCAGTAGCACACTTACCCACGCTGAGAATCCTGACTGGTACTACACTGAGGACCA  
 AGCTGATCCATGCCAGCCCAACCCTGTGAACACGGTGGGGACTGCCTCGTCCATGGGAGACCTTCACA  
 TGCAGTGCCTGGCTCCTTTCTCTGGGAATAAGTGTGAGAAAGTGCAAAATACGTGCAAGGACAACCCAT  
 GTGGCCGGGGCAATGTCTCATTACCCAGAGTCTCCCTACTACCCTGTGTCTGTAAACACCCCTTACAC  
 AGGTCCCAGTGTCCCAAGTGGTTCCTGTATGCAGGCCAAACCCTGCCAGAATGGGGTACCTGCTCC  
 CGGCATAAGCGGAGATCCAAGTTCACCTGTGCCTGTCCCGACCAGTTCAGGGGAAATTCGTGAAATAG  
 GTTCTGATGACTGCTATGTTGGCGATGGCTACTCTACCGAGGGAAAATGAATAGGACAGTCAACCAGCA  
 TGGCTGCCTTTACTGGAACCTCCACCTCCTTTCAGGAGAATTACAACATGTTTATGGAGGATGCTGAA  
 ACCCATGGGATTGGGGAACACAATTTCTGCAGAAACCAGATGCGGACGAAAAGCCCTGGTGCTTTATTA  
 AAGTTACCAATGACAAGGTGAAATGGGAATACTGTGATGTCTCAGCCTGCTCAGCCCAGGACGTTGCCTA  
 CCCAGAGGAAAGCCCACTGAGCCATCAACCAAGCTTCCGGGGTTGACTCCTGTGGAAAGACTGAGATA  
 GCAGAGAGGAAGATCAAGAGAATCTATGGAGGCTTAAAGACACGGCGGGCAAGCACCCATGGCAGGCGT  
 CCCTCCAGTCTCGTGCCTCTGACCATCTCCATGCCCCAGGGCCACTTCTGTGGTGGGGCGCTGATCCA  
 CCCCTGCTGGGTGCTCACTGCTGCCACTGCACCGACATAAAACCAGACATCTAAAGTGGTGTAGGG  
 GACCAGGACCTGAAGAAAGAAGAATTTTCATGAGCAGAGCTTTAGGGTGGAGAAGATTTCAAGTACAGCC  
 ACTACAATGAAAGAGATGAGATTTCCCAATGATATTGCATTGCTCAAGTTAAAGCCAGTGGTGGTCA  
 CTGTGCTCTAGAATCCAATACGTGAAGACTGTGTGCTTGCCTGATGGGTCTTTCCCTCTGGGAGTGAG  
 TGCCACATCTCTGGCTGGGTGTTACAGAAACAGGAAAAGGGTCCCGCCAGCTCCTGGATGCCAAAGTCA  
 AGCTGATTGCCAACACTTTGTGCAACTCCCGCAACTCTATGACCACATGATTGATGACAGTATGATCTG  
 TGCAGGAAATCTCAGAAACCTGGGCAAGACACCTGCCAGGGTACTCTGGAGGCCCCCTGACCTGTGAG  
 AAGGACGGCACCTACTACGTCTATGGGATAGTGAAGTGGGCTGGAGTGTGGGAAGAGGCCAGGGGTCT  
 ACACCAAGTTACCAATTCCTGAATTGGATCAAAGCCACCATCAAAGTGAAGTGGCTTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230243 representing NM\_001177660  
 Red=Cloning site Green=Tags(s)

MSLLESLDAPDWPDPQYDYSYEDYNQEENTSSLTHTAENPDWYYTEDQADPCQPNPCEHGGDCLVHGSTFT  
 CSCLAPFSGNKQKQVQNTCKDNPCGRGQCLITQSPYYRCVCKHPYTGPSCSQVVPVCRPNPCQNGATCS  
 RHKRRSKFTACPDQFKGKFCIEIGSDDCYVGDGYSYRGKMNRTVNQHAELYWNSHLLQLQENYNMFMEDAE  
 THGIGEHNFCRNPDADEKPWCFIKVTNDKVKWEYCDVSACSAQDVAYPEESPTPESTKLPGFDSCKTEI  
 AERKIKRIYGGFKSTAGKHPWQASLQSSLPLTISMPQGHFCGGALIHPCWVLTAAHCTDIKTRHLKVVVLG  
 DQDLKKEEFHEQSFRVEKIFKYSHYNERDEIPHNDIALKLPVDGHCALESKYVKTVCLPDGSPFSGSE  
 CHISGWGVTETGKGSRQLLDAKVLIANTLCNSRQLYDHMIDDSMICAGNLQKPGQDTCQGDSGGPLTCE  
 KDGTYVVYVIVSWGLECGKRPVYTVTKFLNWKATIKSESSEGF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001177660

**ORF Size:** 1602 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\\_001177660.2](#)

**RefSeq Size:** 2978 bp

**RefSeq ORF:** 1605 bp

**Locus ID:** 3026

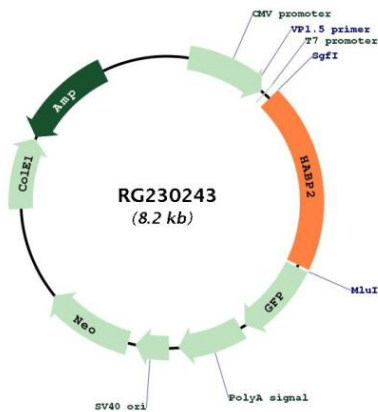
**UniProt ID:** [Q14520](#)

**Cytogenetics:** 10q25.3

**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 RG230243