

## Product datasheet for **RG226168**

### Breast cancer suppressor candidate 1 (VWA5A) (NM\_001130142) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Breast cancer suppressor candidate 1 (VWA5A) (NM_001130142) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                                                           |
| Symbol:                   | Breast cancer suppressor candidate 1                                               |
| Synonyms:                 | BCSC-1; BCSC1; LOH11CR2A                                                           |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                            |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                             |



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**ORF Nucleotide  
Sequence:**

>RG226168 representing NM\_001130142  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGTGCACCTTCTGTGGCCTACTCACCTCCACCGGGAGCCAGTGCCGCTGAAGAGTATCTCTGTGAGCG  
TGAACATTACGAGTTTGTGGCTGGTGTCTGCAACTTTGAACACGAGAATGAGGAGAAAGTTCTTT  
GGAGGCCCTTTCTTGTGTTCCCATGGATGAAGACTCTGCTGTTTACAGCTTTGAGGCCTTGGTGGATGGG  
AAGAAAATTGTAGCAGAATTACAAGACAAGATGAAGGCCCGCACCAACTATGAGAAAGCCATCTCCAGG  
GCCACAGGCTTCTTATTGGAGGGGACAGCAGCTCCAGGGATGTCTTCTCTTGAATGTGGGTAACT  
CCAACCTGGGTCGAAGGCGGCAGTCACCCTGAAGTATGTGCAGGAGCTGCCTCTGGAAGCAGATGGGGCT  
CTGCGCTTTGTGCTCCAGCTGTCTGAATCCTAGATACCACTTCTCTGGGTCGCTAAGGACAGTTGCC  
TTAATGTGAAGACTCCTATAGTCCCTGTGGAGGACCTGCCCTACACACTCAGCATGGTCGCCACCATAGA  
TTCCAGCATGGCATTGAGAAGGTCCAATCCAAGTCCCTTGAAGTCTACCGAGTACCTAGGAGAGGAC  
AAGACTTCTGCTCAGGTTTCCCTGGCTGCTGGACACAAGTTTGATCGGGACGTGGAACCTCTGATTACT  
ACAATGAGGTGCATACCCCCAGCGTGGTTTGGAGATGGGGATGCCTAACATGAAGCCAGGTCAATTTGAT  
GGGAGATCCATCTGCAATGGTGAGTTTCTATCCAAATATCCAGAAAGATCAACCATCAAATACCTGTGGA  
GAGTTTATCTTTCTATGGACCGCTCGGGAAGTATGCAGAGCCCCATGAGTAGCCAGGATACATCTCAGC  
TGCGAATACAGGCAGCCAAGGAAACACTGATTTTGTGCTGAAGAGTTTACCTATAGGCTGTTATTTCAA  
CATCTATGGATTTGGCTCTTCTATGAGGCATGCTTTCCGGAGAGTGTGAAGTACACTCAGCAAAACATG  
GAGGAGGCTCTGGGAGAGTGAAGCTTATGCAGGCCGACCTAGGGGCACTGAAATCTTGGCACCCTCC  
AGAACAATTTACAGGGGACCTCCATCCCAGGCCACCCCTACAGCTTTTGTCTTTACAGATGGAGAAGT  
TACAGACACGTTTGTGTGAATTAAGAAAGTTAGGATCAACAGACAGAAACACAGGTGTTTCTCATTGGT  
ATTGGAGAAGGCACCTCCACAGCCTAATAAAAGGATTGCCCCGGGCATCAGGGGCACTCAGAATTTA  
TCACAGGCAAGACAGGATGCAGTCCAAGGCTCTCAGGACTCTGAAACGCTCTCTGCAGCCTGTGGTAGA  
GGATGTCTCTGAGCTGGCATTGCTCCTGGTCTGTCTGCTAAATGCTTTCCCAAGACAGACTGTC  
ATCTTTAGGGGTGAGAGATTAATCAGCTATGCCAGCTGACCGGGAGGATGCCAGCAGCAGAGACAACAG  
GAGAAGTATGCCTCAAATATACACTCCAGGGCAAGCTTTTGGAGATAAGGTGACATTTCTCTACAACC  
CAAGCCTGATGTCAACCTCACCATTACCGCCTTGCTGCCAAGTCTTGCTCCAGACCAAGGACATGGGC  
CTCAGGGAGACTCCAGCAAGTGATAAAAAAGATGCATTGAACCTTAGCCTTGAGTCTGGTGTCTAAGCT  
CCTTCACAGCTTTTATTGCTATCAATAAGGAGCTCAACAAGCCGGTTCAGGGGCCCTCTGGCTCATAGGGA  
CGTCCCAAGGCCAATTCTGTTGGGTGCTTCTGCCCCATTGAAGATAAAATGCCAATCAGGTTTTTCGAAAG  
GCCTTACACTCTGACCGTCTCTCTGCTCCTCAGCCAGAGGGGAACTTATGTGTTATAAGGCCAAGA  
CATTCCAGATGGACGATTACAGTCTCTGTGGTGTGATAAGTACAAGGACCAGCAGTCCAGGCTTTGG  
AGAGAATCACCTTGTGCAGCTGATTTACCACAAAATGCAATGGTTCCTGGGATCTGAATGAAGATCTA  
GCCAAGATCCTAGGTATGAGTTTGAAGAAATAATGGCTGCACAGCCTGCCGAGCTTGTTGGATTCTCAG  
GCTGGGCCACCATCCTGGCCGTGATCTGGCTGCACAGCAATGGTAAGGACTTGAAGTGTGAATGGGAGCT  
TCTGAAAGGAAGGCCGTGGCCTGGATGCGTGCCCATGCAGGCTCCACCATGCCTTCGGTTGTGAAGCT  
GCTATTACTTTCTGAAGTCATCTGTGGATCCTGCTATCTTTGCCTTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

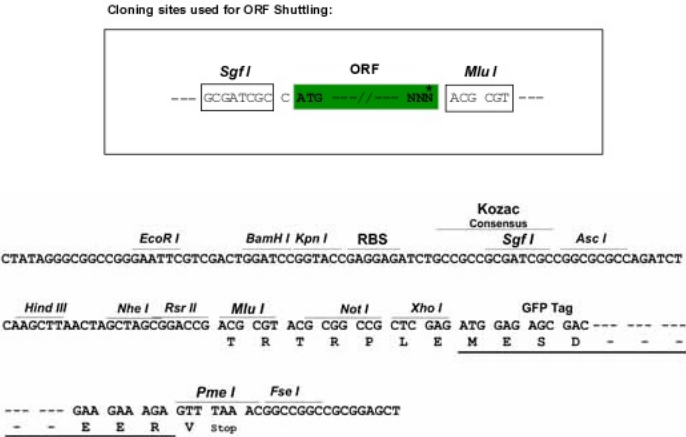
**Protein Sequence:** >RG226168 representing NM\_001130142  
 Red=Cloning site Green=Tags(s)

MVHFCGLLT LHREPVLKSI SVSVNIYEFVAGVSATLNYENEKVPLEAFFVFPMDSDAVYSFEALVDG  
 KKIVAE LQDKMARTNYEKAISQGHQAFLLLEGDSSSRDVFSCNVGNLQPGSKAAVTLKYVQELPLEADGA  
 LRFVLPV LNPYQFSGSSKDSCLNVKTPIVPEDLPYTL SMVATIDSQHGIEKVQSNCP LSPTEYLGED  
 KTSAQVSLAAGHKFDRDVELLIYNEVHTPSV VLEMGMPNMKPGHLMGDP SAMVSFY PNIPEDQPSNTCG  
 EFIFLMDRSGSMQSPMSSQDTSQ LRIQAAKETL ILLKSLPIGCYFNIYGF GSSYEACFPESVKYTQQT  
 MEEALGRVKLMQADLGGTEILAPLQNIYRGPSIPGHPLQLFVFTDGEVTDTF SVIKEVRINRQKHRCFSFG  
 IGEGTSTSLIKGIARASGGTSEFITGKDRMQSKALRTLKRSLQPVVEDVSLSWHLPPGLSAKMLSPEQTV  
 IFRGQRLISYAQLTGRMPAAETTGEVCLKYTLQGKTFEDKVT FLPQPKPDVNLTIHRLAAKSL LQTKDMG  
 LRETPASDKKDALNLSLESGVISSFTAFIAINKELNKPVQG PLAHRDVPRPILLGASAPLKIKCQSGFRK  
 ALHSDRPPSASQPRGELMCYKAKTFQDDYSLCGLISHKDQHSPGFGENHLVQLIYHQNANGSWDLNEDL  
 AKILGMSLEEIMAAQPAELVDSSGWATILAVIWLH SNGKDLKCEWELLERKAVAWMRAHAGSTMP SVVKA  
 AITFLKSSVDP AIFAF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130142

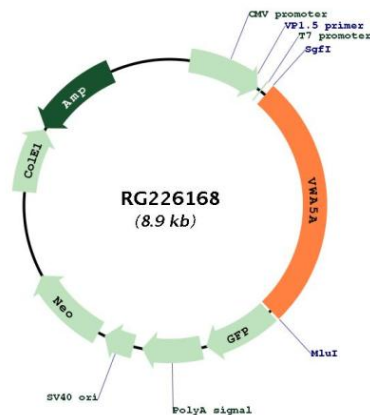
**ORF Size:** 2358 bp

**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: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| RefSeq:                | <u>NM_001130142.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| RefSeq Size:           | 3552 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:            | 2361 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:              | 4013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt ID:            | <u>O00534</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cytogenetics:          | 11q24.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Summary:          | May play a role in tumorigenesis as a tumor suppressor. Altered expression of this protein and disruption of the molecular pathway it is involved in, may contribute directly to or modify tumorigenesis.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                |

## Product images:



Circular map for RG226168