

## *Division of Signal Transduction Therapy*

### **Standard Operation Procedure**

#### **Preparation of His-Halo-SQSTM UBA domain tetramer**

**Enzyme description:-** SQSTM 389-439 tetramer = UBA domain trimer

**Clone number:-** DU23922

**Source:-** bacteria

**Tag:-** N-terminal His-Halo-

**Purification method:-** Ni<sup>++</sup>-Sepharose

**Expression level:-** 4 mg/L

**Calculated molecular mass:-**

Monoisotopic 58985  
Average Mass 59021  
[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.08

**Purity:-** 90%

**Enzyme storage buffer:-**

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

**Storage temperature:-** -80°C

**Assay:-**

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### **Clone Data Sheet**

#### **Protein name His-Halo-SQSTM UBA domain tetramer**

<b><u>Protein</u></b>	His-Halo-SQSTM UBA 389-439 = UBA domain tetramer
<b><u>Synonyms</u></b>	ORCA, OSIL, EBIAP, p62
<b><u>Clone Number</u></b>	DU23922
<b><u>Species</u></b>	human
<b><u>Accession Number</u></b>	Protein: Q13501
<b><u>Tags</u></b>	N-terminal His-Halo-
Aminoacid sequence of the expressed protein	MGSSHHHHHENLYFQMAEIGTGFPDPHYVEVLGERMHYVDVGPDRDGTPLFLHGNPTSSYVWRNIIPHVAPTHRCIAPDLIGMKSDKPDLYFFDDHVRFMDAFIEALGLEEVVLVIHDWGSALGFHWAKRNPERVKGIAFMEFIRPIPTWDEWPEFARETFQAFRTTDVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDHYREPFLNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLFWGTPGVLIIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDIGSEIARWLSTLEISGGSGGGEADPRLIESLSQMLSMGFSDEGGWLT <b>RLLOTKNYDIGAALDTIQYSKHGGGRSGGGEADPRLIESLSQMLSMGFSDEGGWLT</b> RLLOTKNYDIGAALDTIQYSKHGGGRSGGGEADPRLIESLSQMLSMGFSDEGGWLT <b>RLLOTKNYDIGAALDTIQYSKHGGGRSEADPRLIESLSQMLSMGFSDEGGWLT</b> RLLOTKNYDIGAALDTIQYSKH
Native sequence	in bold
Protease cleavage	TEV site does not work
<b><u>DNA sequence of the expression cassette</u></b>	ATGGGCAGCAGCCATCATCATCATCACGAAAACCTGTATTTTCAGatggcagaaatcggactggtcttccattcgacccccattatgtggaagtcc tgggcgagcgcgatgcactacgtcgcgatggtgggtccgcgcgatggcaccctgtgctgttccctgcacggtaaccgcacctcctcctacgtgtggcgcaacatcatcccgcgatgttgaccgaccatcgctgcattgctccagacctgatcgtatgggcaaaccgacaaaccagacctgggttatttcttcgacgaccacgtccgcttcatggatgccttcatcgaagccctgggtctggaagaggctgctcctggtcattcagactggggctccgctctgggtttccactgggccaagcgcaatccagagcgcgtcaaaggtattgcatttatggagttcatccgccctatcccgcacctgggacgaatggccagaatttgcccgcgagacctccagcccttccgcaccaccgacgtcggccgcaagctgatcgcgatcagaacgttttatcgcagggtagctgcccgatgggtgctcgcgccgctgactgaagtcgagatggaccattaccgcgagccgttccctgaatcctggtgaccgcgagccactgtggcgttcccaaacgagctgccaatcgccgggtgagccagcgaacatcgtcgcgctggtcgaagaatacatggactggctgcaccagtcccctgtccgaagctgctgttctggggcaccaccaggcgttctgatcccaccggccgaagccgctcgcctggccaaaagcctgcctaactgcaaggctgtggacatcggcccgggtctgaatctgctgcaagaagacaaccggacctgatcggcagcgagatcgcgcgctggctgtcgcagctcgagatttccggcGGATCCGGCGGAGGCGAGGCTGACCCGGGCTGATTGAGTCCCTCTCCAGATGCTGTCCA TGGGCTTCTCTGATGAAGGCGGCTGGCTCACCGAGGCTCCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATggcggaggcAGATCCGGCGGAGGCGAGGCTGACCCGGGCTGATTGAGTCCC

TCTCCAGATGCTGTCCATGGGCTTCTCTGATGAAGGCGGCTGGCTCACC  
AGGTCCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGACACCAT  
CCAGTATTCAAAGCATggcggaggcAGATCCGGCGGAGGCGAGGCTGACC  
CGCGGCTGATTGAGTCCCTCTCCAGATGCTGTCCATGGGCTTCTCTGAT  
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AGCGGCTCTGGACACCATCCAGTATTCAAAGCATggcggaggcAGAtccG  
AGGCTGACCCGCGGCTGATTGAGTCCCTCTCCAGATGCTGTCCATGGGC  
TTCTCTGATGAAGGCGGCTGGCTCACCAGGTCCTGCAGACCAAGAACTA  
TGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATtgagcgg  
ccgc