

*Division of Signal Transduction Therapy*

**Standard Operation Procedure**

**Preparation of TRIM21**

<b><u>Enzyme description:-</u></b>	TRIM21
<b><u>Clone number:-</u></b>	DU22292
<b><u>Source:-</u></b>	human recombinant
<b><u>Tag:-</u></b>	N-terminal His-SUMO
<b><u>Purification method:-</u></b>	Ni-agarose, SEC
<b><u>Expression system:-</u></b>	E.coli
<b><u>Calculated molecular mass:-</u></b>	
Monoisotopic	66121 Da
Average Mass	66162 Da
[cysteines reduced, methionines have not been oxidised]	
<b><u>Theoretical pI:-</u></b>	6.17
<b><u>Purity:-</u></b>	80%
<b><u>Enzyme storage buffer:-</u></b>	
50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT	
<b><u>Storage temperature:-</u></b>	-80°C
<b><u>Assay:-</u></b>	

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**Clone Data Sheet**

**TRIM21**

<b><u>Protein</u></b>	TRIM21 (1-475) = full length
<b><u>Synonyms</u></b>	RNF81, RO52, SSA1
<b><u>Clone Number</u></b>	DU22292
<b><u>Species</u></b>	Human
<b><u>Accession Number</u></b>	P19474
<b><u>Tags</u></b>	N-terminal His-SUMO
Aminoacid sequence of the expressed protein	MGHHHHHSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFVKVQMTT HLKKLKESYQORQGVPMNSLRFLFEGQRIADNHTPKELGMEEDVIEVY QEQTGGmasaarltmmweevtcpicldpfvepvsiecghsfcqecisqv gkggsvcpvcrqrfllknlrpnrqlanmvnnlkeisgearegtqgerc avhgerlhlfcckdgcawvcaqsrkhrdhamvpleeaageyqeklqv algelrrkqelaekleveiaikradwkkvetqksrihaefvqqknflv eeeqrqlqeledereqlrilgekeaklaqqsqalqeliseldrrchss alellgeviivlrseswnlkdllditspelrsvchvpglkkmlrtcavh itldpdtanpwlilsedrrqvrlgdtqqsipgneerfdsypmvlgaqh hsgkhywevdvtgkeawdlgvcrdsvrrkghfllssksqfwtiwlwnkq kyeagtypqtphlqvpqcqvgifldyeagmvsfynitdhgsliysfse caftgplrpffspgfdggkntapltlcplnigsqgstdy
Native sequence	TRIM21 sequence in small letters
Protease cleavage	SEN1 protease site
Cloning sites	Not1 / Not1

**DNA sequence of  
expression cassette**

ATGGGTCATCATCACCATCACCATTCTGACCAGGAGGCAAACCTTCAACT  
GAGGACTTGGGGGATAAGAAGGAAGGTGAATATATATAAACTCAAAGTCATT  
GGACAGGATAGCAGTGAGATTCACTCAAAGTGCAAATGACAACACATCTC  
AAGAACTCAAAGAATCATACTGTCAAAGACAGGGTGTTC CAATGAATTCA  
CTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAA  
GAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACG  
GGGGAatggccttcagcagcacgccttgacaatgatgtgggaggaggtcaca  
tgccctatctgcctggaccccttcgtggagcctgtgagcatcgagtgtggc  
cacagcttctgccaggaatgcatctctcaggttgggaaaggtgggggcagc  
gtctgtcctgtgtgccggcagcgccttctgtctcaagaatctccggcccaat  
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