

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-Halo-SLX4 [C296A, C299A] BTB domain dimer

<u>Enzyme description:-</u>	SLX4 270-380 dimer [C296A, C299A]
<u>Clone number:-</u>	DU45629
<u>Source:-</u>	bacteria
<u>Tag:-</u>	N-terminal His-Halo-
<u>Purification method:-</u>	Ni ⁺⁺ -Sepharose
<u>Expression level:-</u>	0.5 mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	61064
Average Mass	61000
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	6.23
<u>Purity:-</u>	20% (contaminants are shorter fragments)
<u>Enzyme storage buffer:-</u>	
50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

Protein name His-Halo-SLX4 [C296A, C299A] = BTB domain dimer

<u>Protein</u>	His-Halo-SLX4 (270-380) [C296A, C299A]
<u>Synonyms</u>	BTBD12, FANCP, MUS312
<u>Clone Number</u>	DU45629
<u>Species</u>	human
<u>Accession Number</u>	DNA: NM_032444
<u>Tags</u>	N-terminal His-Halo-
Aminoacid sequence of the expressed protein	MHHHHHMAEIGTGFPFDPHYVEVLGERMHYVDVGPDRDGTPLVFLHGNPT SSYVWRNIIPHVAPTHRCIAPDLIGMGKSDKPDLYFFDDHVRFMDFIE ALGLEEVVLVIHDWGSALGFHWAKRNPERVKGIAFMEFIRPIPTWDEWPE FARETFQAFRTTQVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDHYREPF LNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLFWGTP GVLIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDIGSEIARWLSTL EISGENLYFOGGSM <u>LTLOQEFARVGASAHDDSLEEKGLFFAQIAQKNSA</u> MNVTRREQHVNRCLDEAEKTLRPSVQIPECPICGKPFLLTKSRTSHLKQ CAVKMEVGPQLLLQAVRLQTAQPEGRSMLTLOQEFARVGASAHDDSLEEK GLFFAQIAQKNSAMNVTRREQHVNRCLDEAEKTLRPSVQIPECPICGK PFLTKSRTSHLKQCAVKMEVGPQLLLQAVRLQTAQPEGRS
Native sequence	in bold
Protease cleavage	TEV protease site underlined
<u>DNA sequence of the expression cassette</u>	GGATCCATGTTGACCCTGCAGCAGGAGTTTGCACGGGTAGGAGCATCGGCA CATGATGATAGCCTGGAGGAAAAGGGTTTGTCTTCGCCCAGATTGCTCAA AAGAACCCTCTCAGCCATGAACGTGACCCGAAGGGAACAGCATGTGAACAGG TGCTTGGATGAAGCTGAAAAGACACTAAGACCTTCTGTGCCTCAGATCCCT GAGTGCCCGATTTGTGGGAAAACCGTTTCTTACCTTAAAGAGCAGAACCAGT CACTTGAAGCAGTGTGCTGTGAAGATGGAGGTTGGCCCCCAGCTCCTGCTT CAGGCTGTGCGGCTGCAGACAGCACAGCCTGAGGGTAGATCCATGTTGACC CTGCAGCAGGAGTTTGCACGGGTAGGAGCATCGGCACATGATGATAGCCTG GAGGAAAAGGGTTTGTCTTCGCCCAGATTGCTCAAAGAACCCTCTCAGCC ATGAACGTGACCCGAAGGGAACAGCATGTGAACAGGTGCTTGGATGAAGCT GAAAAGACACTAAGACCTTCTGTGCCTCAGATCCCTGAGTGCCCGATTTGT GGGAAAACCGTTTCTTACCTTAAAGAGCAGAACCAGTCACTTGAAGCAGTGT GCTGTGAAGATGGAGGTTGGCCCCCAGCTCCTGCTTACAGGCTGTGCGGCTG CAGACAGCACAGCCTGAGGGTAGATCTTGACATCGAGTCGACTCGAGCGGC CGC
<u>Restriction sites</u>	BamH1 NotI