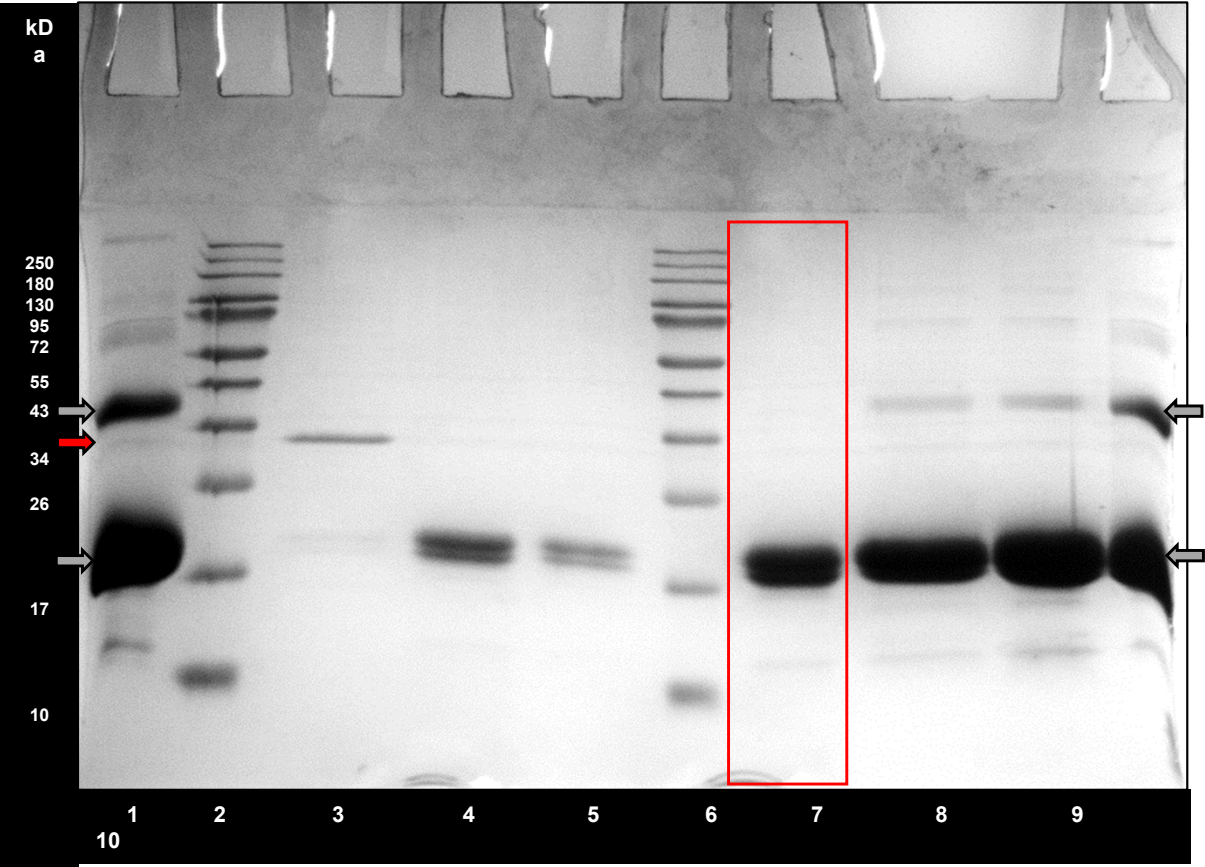


Gel # 22908

Coomassie-blue stain

15% resolving SDS-PAGE, 5% stacker Tris-HCl Bis-acrylamide gel, ~10 µg proteins



1. p28b-SUMO: MW = 16.84 kDa, Dimer = 33.68 kDa
2. p28a-CspCh: MW = 33.14 kDa, Dimer = 66.28 kDa

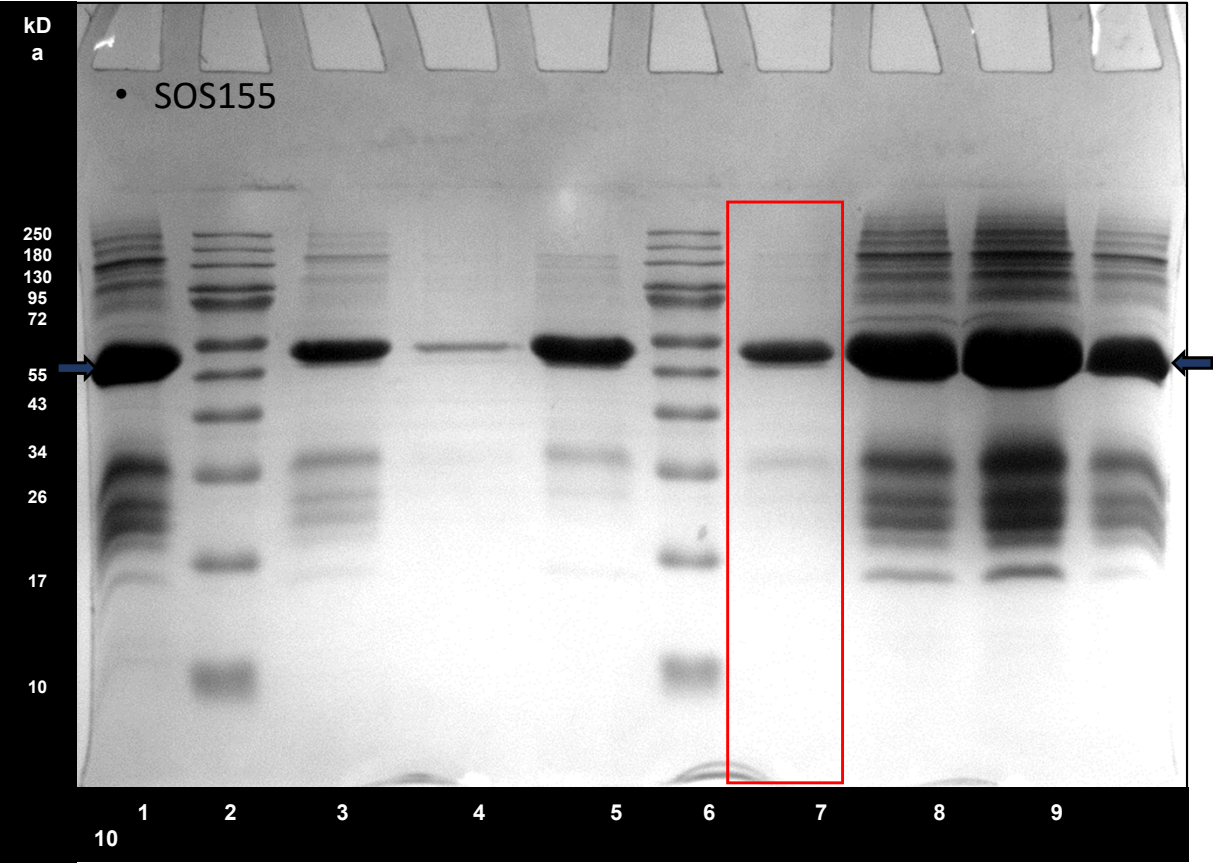
SDS-PAGE gel of purified SUMO solubility tag

PAGE Ruler		1	p28b-SUMO unpurified
kDa	250 —	2	Protein Ladder
180 —		3	p28a-CspCh [FPLC]
130 —		4	p28b-SUMO [FPLC]
95 —		5	p28b-SUMO [FPLC]-diluted
72 —		6	Protein Ladder
55 —		7	p28b-SUMO [FPLC+dialysis] conc.
43 —		8	p28b-SUMO [Dialysed]
34 —		9	p28b-SUMO [Dialysed conc.]
26 —		10	p28b-SUMO unpurified
17 —			
10 —			

Gel # 22906

Coomassie-blue stain

15% resolving SDS-PAGE, 5% stacker Tris-HCl Bis-acrylamide gel, ~10 µg proteins



PAGE Ruler			
kDa		1	p28b-S-BEA unpurified
250 —		2	Protein Ladder
180 —		3	p28b-S-BEA unpurified
130 —		4	p28b-S-BEA [FPLC]
95 —		5	p28b-S-BEA [FPLC]-conc
72 —		6	Protein Ladder
55 —		7	p28b-S-BEA [FPLC+Dialysis]-conc
43 —		8	p28b-S-BEA [Dialysis]
34 —		9	p28a-CspCh [Dialysis]-conc
26 —		10	p28b-S-BEA unpurified
17 —			
10 —			

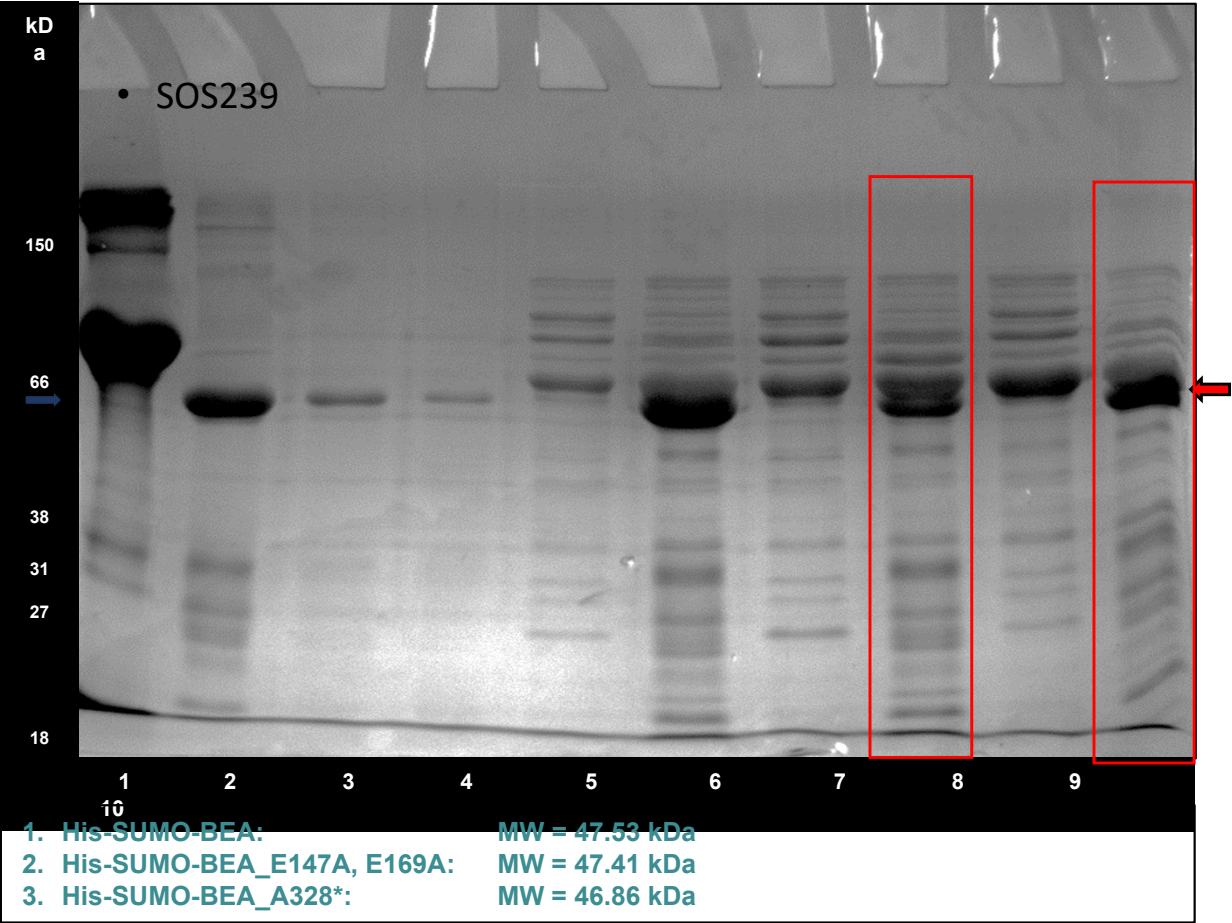
1. p28b-SUMO-BEA: MW = 47.53 kDa, Dimer = 95.06 kDa

SDS-PAGE gel of purified BEA

Gel # 22986

Coomassie-blue stain

12 % resolving SDS-PAGE, 5% stacker Tris-HCl Bis-acrylamide gel, ~10 µg proteins



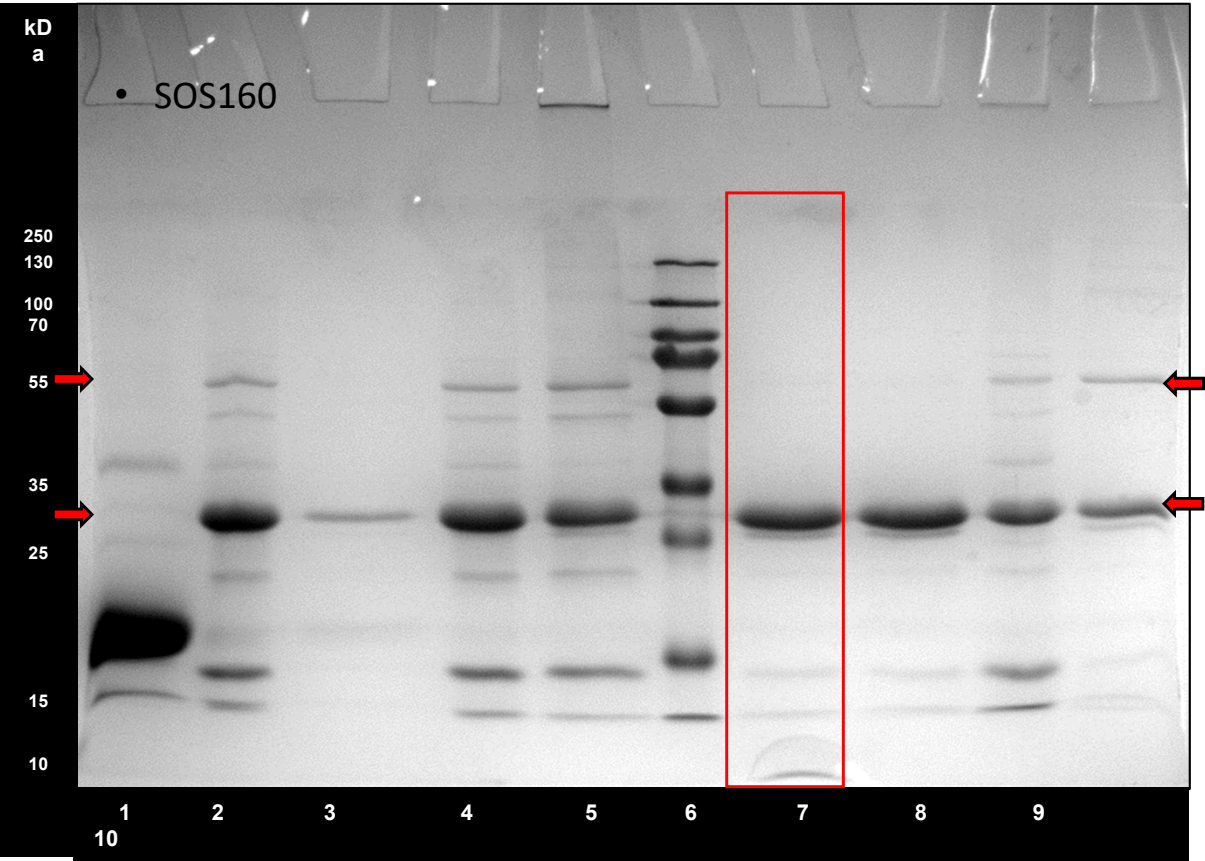
PAGE Ruler		
	1	Protein mix ladder
	2	His-SUMO-BEA FPLC purified (SOS 160)
	3	His-SUMO-BEA FPLC purified (SOS 160) (4x diluted)
	4	His-SUMO-BEA_A328* (dialysed & 4x diluted)
	5	His-SUMO-BEA (non-dialysed)
	6	His-SUMO-BEA (dialysed & conc.)
	7	His-SUMO-BEA_E147A, E169A (non-dialysed)
	8	His-SUMO-BEA_E147A, E169A (dialysed & conc.)
	9	His-SUMO-BEA_A328* (non-dialysed)
	10	His-SUMO-BEA_A328* (dialysed & conc.)

Dialysis of maize BEA & its mutants

Gel # 22915

Coomassie-blue stain

12 % resolving SDS-PAGE, 5 % stacker Tris-HCl Bis-acrylamide gel, ~10 µg proteins



1. p28a-CspCh:

MW = 33.14 kDa, Dimer = 66.28 kDa
2. p28b-SUMO:

MW = 16.84 kDa, Dimer = 33.68 kDa

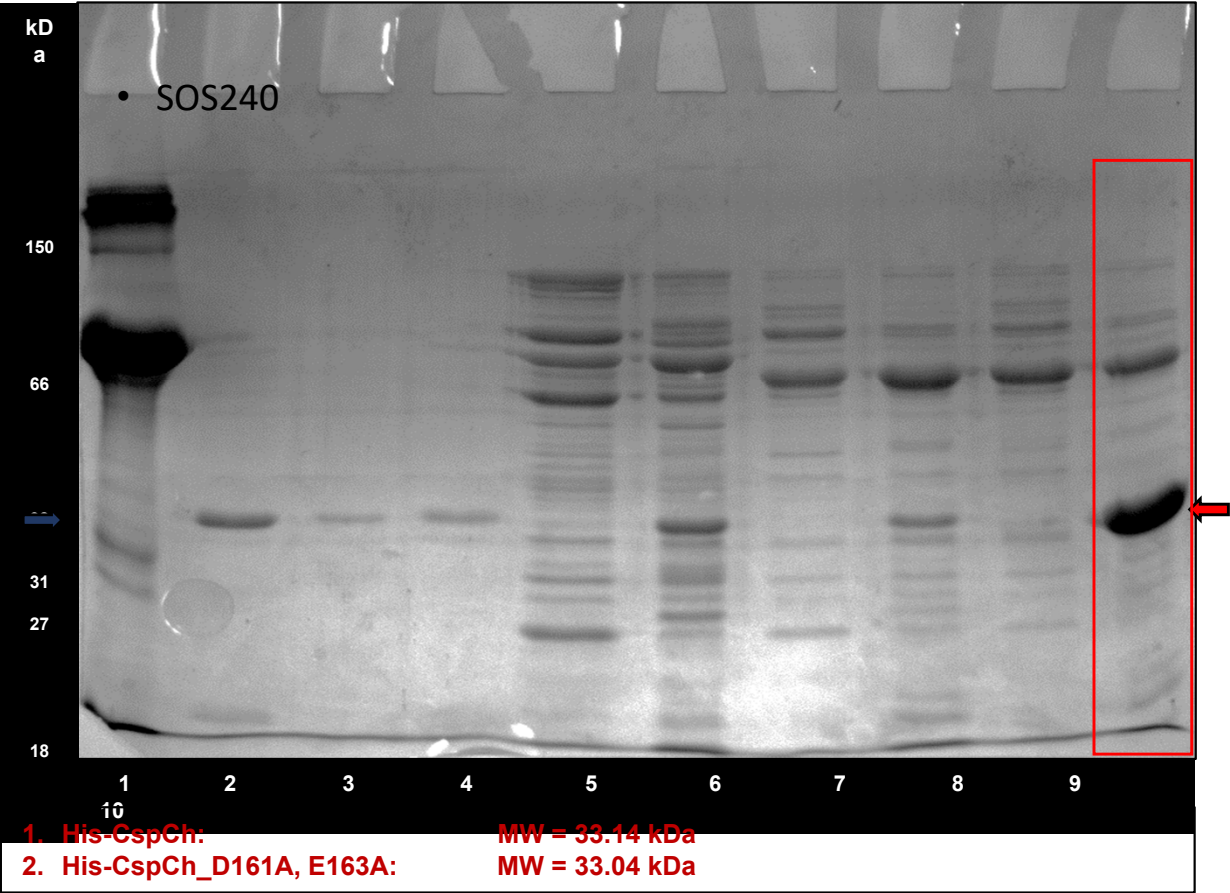
SDS-PAGE gel of purified CspCh

PAGE Ruler		
kDa ~250 ~130 ~100 ~70 ~55 ~35 ~25 ~15 ~10	1	p28b-SUMO
	2	p28a-CspCh [Dialysis]
	3	p28a-CspCh [FPLC]-conc (SOS151)
	4	p28a-CspCh [Dialysis]-conc
	5	p28a-CspCh unpurified
	6	Protein Ladder
	7	p28a-CspCh B-4
	8	p28a-CspCh [FPLC+Dialysis]-conc
	9	p28a-CspCh [Dialysis]
	10	p28a-CspCh [FPLC+Dialysis]-diluted

Gel # 22987

Coomassie-blue stain

12 % resolving SDS-PAGE, 5% stacker Tris-HCl Bis-acrylamide gel, ~10 µg proteins



PAGE Ruler		
	1	Protein mix ladder
	2	His-CspCh FPLC purified (SOS 155)
	3	His-CspCh FPLC purified (SOS 155) (4x diluted)
	4	His-CspCh_D161A, E163A (dialysed & 4x diluted)
	5	His-CspCh-OE (non-dialysed)
	6	His-CspCh-OE (dialysed & conc.)
	7	His-CspCh-RG2 (non-dialysed)
	8	His-CspCh-RG2 (dialysed & conc.)
	9	His-CspCh_D161A, E163A (non-dialysed)
	10	His-CspCh_D161A, E163A (dialysed & conc.)

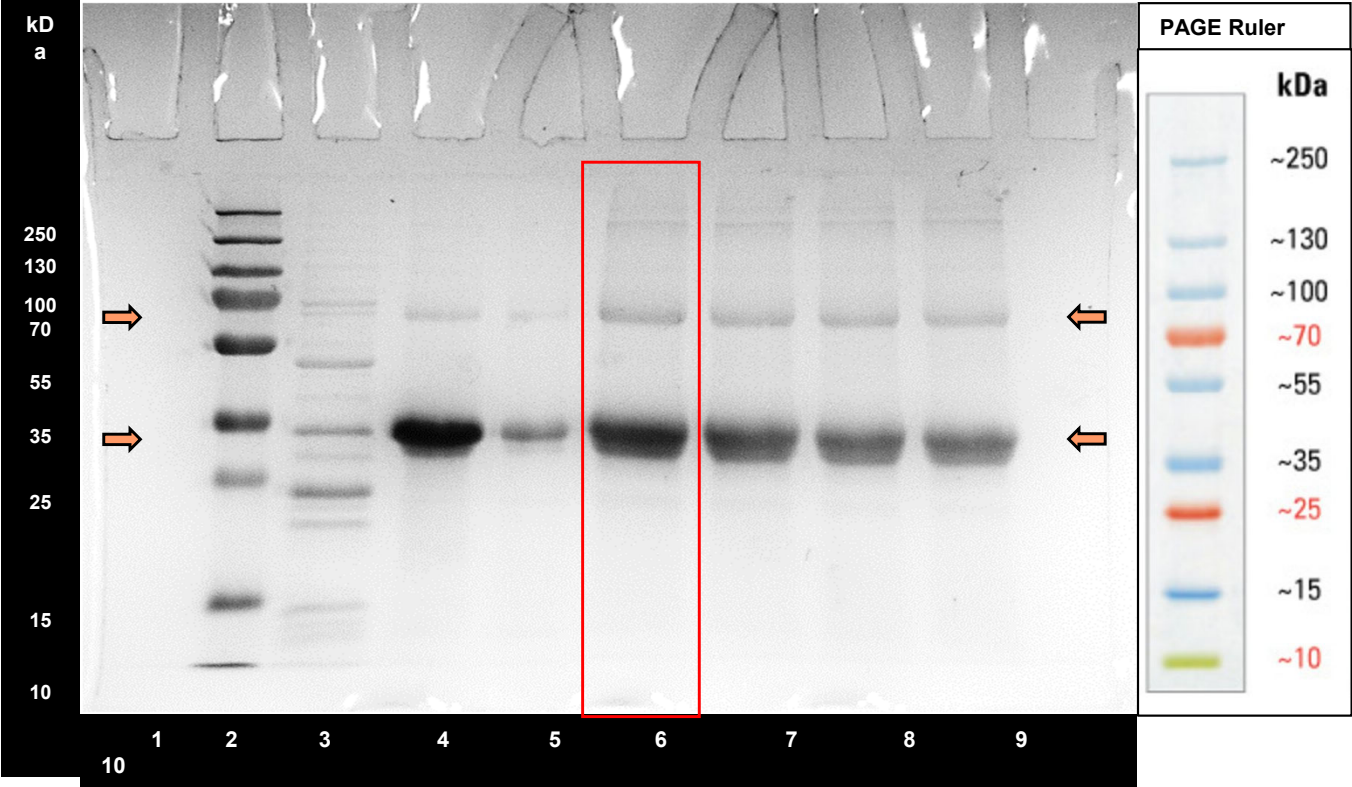
Gel

Dialysis of bacteria chitinase & its mutant

Gel # 22841

- SOS114, 121, 155, 160

12% resolving SDS-PAGE, 5% stacker Tris-HCl Bis-acrylamide gel, ~15 µg proteins



1	Refolding Buffer
2	Protein Ladder
3	OsCh [E1] -Cyt
4	OsCh [E1] -IBs
5	OsCh [E3] -IBs
6	OsCh [Refolded] -in RB
7	OsCh [Refolded] -in RB
8	OsCh [Refolded] -in BC100
9	OsCh [Refolded] -in BC100
10	Elution Buffer

1. p28a-OsCh: MW = 33.72 kDa, Dimer = 67.44 kDa

Refolding of OsCh from IBs of OverExpress C43(DE3) Cells