

Supplemental Material

Characterization of the tRNA ligases of pathogenic fungi *Aspergillus fumigatus* and *Coccidioides immitis*

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Crosslinks	Hit counts		
	DST (6.4 Å)	DSG (7.7 Å)	DSS (11.4 Å)
LIG Domain			
K27–K33	18		33
K27–K57	10	6	58
K32–K50	7	8	30
K32–K155	6		10
K50–K57	6		12
K57–K87	19	20	44
K87–K289	6	5	15
K291–K319	9		11
K340–K360	9	8	12
K360–K365	8	66	9
K57–K360		7	
K57–K340		6	
K57–K98		5	43
K57–K166		5	
K155–K166		7	17
K242–K340		11	
K242–K360		5	7
K235–K242			36
K307–K319			11
K316–K319			20
K27–K50			11
KIN Domain			
K442–K453	13	19	59
K453–K457	11	79	112
K457–K512	5	5	8
K482–K512	7	10	
K512–K598	10		17
K512–K606	9		26
K591–K606	10	5	6
K442–K512		14	9
K442–K457		10	15
K442–K482		10	
K453–K482		15	14
K453–K512		7	5
K457–K482		5	14
K591–K598			13
CPD Domain			
K635–K703	21		58
K635–K689	6		
K635–K693	5		23
K689–K703	43	6	
K693–K703	14		11
K743–K790	27	8	
K632–K703			16
K635–K707			11

Figure S1. Intra-domain chemical crosslinks of CimTrl1.

Crosslinks	Hit counts		
	DST	DSG	DSS
LIG to KIN			
K27-K482	6		
K27-K591	6		
K27-K457	5		
K27-K576	5		
K27-K598			5
K32-K591	6		
K33-K606			9
K57-K442	9	43	5
K155-K606	5		8
K307-K576	8	6	5
K316-K442	14		
K316-K576	5		
K316-K457			6
K340-K457		10	
K340-K482		5	
K340-K512			5
K57-K453		5	
K87-K442		8	
K155-K453		6	5
K155-K457		6	5
K155-K512		5	5
K242-K457		5	
K242-K482		5	
K291-K442		11	
K319-K442		5	6
K322-K442		15	
K340-K442		9	
K360-K442		10	5
K360-K457		6	12
LIG to CPD			
K27-K673	5		
K155-K790	7		
K155-K673	6	8	9
K242-K790	17	6	5
K242-K632	7		9
K242-K673	5	10	13
K340-K673	6		
K360-K673	5		8
K155-K743		6	
KIN to CPD			
K457-K790	6		
K606-K632	5		
K606-K635	5		8
K442-K673		6	
K457-K821		13	
K457-K673		5	7
K482-K673		8	

Figure S2. Inter-domain chemical crosslinks of CimTrl1.

Crosslinks	Hit counts		
	DST (6.4 Å)	DSG (7.7 Å)	DSS (11.4 Å)
LIG Domain			
K59–K100	6	35	44
K76–K171			32
K28–K59	11	14	13
K74–K76	8	26	9
K28–K76			7
K28–K34			5
K59–K89	18	6	7
K59–K74		8	5
K59–K292			8
K100–K292			5
K157–K171			8
K314–K347	20	8	14
K361–K366	5	11	9
K323–K377	14	5	7
K314–K320			5
K59–K76		7	
K76–K171		13	
K74–K171		6	
K100–K314		6	
K157–K314		6	
K59–K171		5	
K59–K314	5	5	
K171–K314		5	
K89–K290	17		
KIN Domain			
K406–K439			12
K480–K524	10	6	
K420–K510	9		
K439–K611	6		
K524–K611	6		
K420–K424	5		
CPD Domain			
K713–K715		18	19
K786–K831	12		
LIG to KIN			
K314–K439	14	13	13
K34–K439			5
K59–K439		10	
K100–K439		5	
K28–K524	5		
LIG to CPD			
K74–K696		5	
K290–K713	5		
KIN to CPD			
K406–K831	5		
K439–K831	5		

Figure S3. Chemical crosslinking of AfuTrl1.