Appendix A: List of All Domains in This Thesis

In this appendix a table containing all the domains found in this Thesis is presented. The Pfam accession number and a short description line derived from the Pfam annotation are included. For more detailed information these domains can all be found in Pfam release 16.0.

7TMR-DISM_7TM	*PF07695*	7TM diverse intracellular signalling
ALF	*PF03752*	Short repeats of unknown function
AT_hook	*PF02178*	AT hook motif
Abhydrolase_1	*PF00561*	alpha/beta hydrolase fold
Adaptin_N	*PF01602*	Adaptin N terminal region
Arc_PepC	*PF06819*	Archaeal Peptidase A24 C-terminal Domain
Arc_PepC_II	*PF06847*	Archaeal Peptidase A24 C-terminus Type II
Autotransporter	*PF03797*	Autotransporter beta-domain
BNR	*PF02012*	BNR/Asp-box repeat
BON	*PF04972*	Putative phospholipid-binding domain
BTAD	*PF03704*	Bacterial transcriptional activator domain
BTP	*PF05232*	Bacterial Transmembrane Pair family
Big_2	*PF02368*	Bacterial Ig-like domain (group 2)
Big_3	*PF07523*	Bacterial Ig-like domain (group 3)
Big_4	*PF07532*	Bacterial Ig-like domain (group 4)
CBM_4_9	*PF02018*	Carbohydrate binding domain
CBM_5_12	*PF02839*	Carbohydrate binding domain
CBM_6	*PF03422*	Carbohydrate binding module (family 6)
CBS	*PF00571*	CBS domain
CCD	*PF07860*	WisP family C-Terminal Region
CW_binding_2	*PF04122*	Putative cell wall binding repeat 2
CXCXC	*PF03128*	CXCXC repeat
Calx-beta	*PF03160*	Calx-beta domain
CbiX	*PF01903*	CbiX
CheW	*PF01584*	CheW-like domain
ChlamPMP_M	*PF07548*	Chlamydia polymorphic membrane protein middle domain
Chlam_PMP	*PF02415*	Chlamydia polymorphic membrane protein (Chlamydia_PMP)
Choline_kinase	*PF01633*	Choline/ethanolamine kinase
Cleaved_Adhesin	*PF07675*	Cleaved Adhesin Domain
Coat_F	*PF07875*	Coat F domain
Coat_X	*PF07552*	Spore Coat Protein X and V domain
Cohesin	*PF00963*	Cohesin domain
Collagen	*PF01391*	Collagen triple helix repeat (20 copies)
CtnDOT_TraJ	*PF07863*	Homologues of TraJ from Bacteroides conjugative transposon
Cupin_2	*PF07883*	Cupin domain
DEAD	*PF00270*	DEAD/DEAH box helicase
DUF1034	*PF06280*	Domain of Unknown Function (DUF1034)
DUF1078	*PF06429*	Domain of unknown function (DUF1078)
DUF1533	*PF07550*	Protein of unknown function (DUF1533)
DUF1542	*PF07564*	Domain of Unknown Function (DUF1542)
DUF1605	*PF07717*	Domain of unknown function (DUF1605)
DUF1606	*PF07718*	Domain of unknown function (DUF1606)
DUF385	*PF04075*	Domain of unknown function (DUF385)
DUF637	*PF04830*	Possible hemagglutinin (DUF637)
Dabb	*PF07876*	Stress responsive A/B Barrel Domain
DiS_P_DiS	*PF06750*	Bacterial Peptidase A24 N-terminal domain
Disaggr_repeat	*PF06848*	Disaggregatase related repeat
Dockerin_1	*PF00404*	Dockerin type I repeat
E1-E2_ATPase	*PF00122*	E1-E2 ATPase

EAL	*PF00563*	EAL domain
EGF_CA	*PF07645*	Calcium binding EGF domain
F5_F8_type_C	*PF00754*	F5/8 type C domain
FAD_binding_2	*PF00890*	FAD binding domain
FAINT	*PF04385*	Domain of unknown function
FG-GAP	*PF01839*	FG-GAP repeat
FHA	*PF00498*	FHA domain
FMN_bind	*PF04205*	FMN-binding domain
FMN_red	*PF03358*	NADPH-dependent FMN reductase
FTP	*PF07504*	Fungalysin/Thermolysin Propeptide Motif
FecR	*PF04773*	FecR protein
FeoA	*PF04023*	FeoA domain
FeoB_C	*PF07664*	Ferrous iron transport protein B C terminus
FeoB_N	*PF02421*	Ferrous iron transport protein B
Fer4	*PF00037*	4Fe-4S binding domain
Fic	*PF02661*	Fic protein family
Fil_haemagg	*PF05594*	Haemagluttinin repeat
FlaE	*PF07559*	Flagellar basal body protein FlaE
Flagellin_IN	*PF07196*	Flagellin hook IN motif
FlgD	*PF03963*	Flagellar hook capping protein
Flg_bb_rod	*PF00460*	Flagella basal body rod protein
fn3	*PF00041*	Fibronectin type III domain
G5	*PF07501*	G5 domain
GA	*PF01468*	GA module
GGDEF	*PF00990*	GGDEF domain
Gate	*PF07670*	Nucleoside recognition
Glug	*PF07581*	The GLUG motif
Glyco_hydro_31	*PF01055*	Glycosyl hydrolases family 31
Glyco_hydro_43	*PF04616*	Glycosyl hydrolases family 43
Glyco_hydro_85	*PF03644*	Glycosyl hydrolase family 85
Gram_pos_anchor	*PF00746*	Gram positive anchor
HA	*PF03457*	Helicase associated domain
HA2	*PF04408*	Helicase associated domain (HA2)
HAMP	*PF00672*	HAMP domain
HATPase_c	*PF02518*	Histidine kinase-
HCBP_related	*PF06594*	Haemolysin-type calcium binding protein related domain
HTH_AraC	*PF00165*	Bacterial regulatory helix-turn-helix proteins
Haemagg_act	*PF05860*	haemagglutination activity domain
He_PIG	*PF05345*	Putative Ig domain
Helicase_C	*PF00271*	Helicase conserved C-terminal domain
Hemerythrin	*PF01814*	Hemerythrin HHE cation binding domain
HemolysinCabind	*PF00353*	Hemolysin-type calcium-binding repeat (2 copies)
HisKA	*PF00512*	His Kinase A (phosphoacceptor) domain
Hyaluronidase_2	*PF07555*	Hyaluronidase
Hydrolase	*PF00702*	haloacid dehalogenase-like hydrolase
Ice_nucleation	*PF00818*	Ice nucleation protein repeat
LCCL	*PF03815*	LCCL domain
LRR_1	*PF00560*	Leucine Rich Repeat
Lectin_C	*PF00059*	Lectin C-type domain
Lyase_8	*PF02278*	Polysaccharide lyase family 8

LysM	*PF01476*	LysM domain
MS_channel	*PF00924*	Mechanosensitive ion channel
MbtH	*PF03621*	MbtH-like protein
Myco_haema	*PF05692*	Mycoplasma haemagglutinin
NB-ARC	*PF00931*	NB-ARC domain
NEAT	*PF05031*	Iron Transport-associated domain
Nif11	*PF07862*	Nitrogen fixation protein of unknown function
Nucleos_tra2_C	*PF07662*	Na+ dependent nucleoside transporter C-terminus
Nucleos_tra2_N	*PF01773*	Na+ dependent nucleoside transporter N-terminus
Oxidored_FMN	*PF00724*	NADH:flavin oxidoreductase / NADH oxidase family
PA	*PF02225*	PA domain
PAC	*PF00785*	PAC motif PAC motif occurs C-terminal to a subset of all known PAS motifs.
PAS	*PF00989*	PAS domain
PASTA	*PF03793*	PASTA domain
PBP_dimer	*PF03717*	Penicillin-binding Protein dimerisation domain
PG_binding_1	*PF01471*	Putative peptidoglycan binding domain
PHB_acc	*PF05233*	PHB accumulation regulatory domain
PHB_acc_N	*PF07879*	PHB/PHA accumulation regulator DNA-binding domain
PKD	*PF00801*	PKD domain
PPC	*PF04151*	Bacterial pre-peptidase C-terminal domain
PT	*PF04886*	PT repeat
P_proprotein	*PF01483*	Proprotein convertase P-domain
PepSY	*PF03413*	Peptidase propeptide and YPEB domain
Peptidase_A24	*PF01478*	Type IV leader peptidase family
Peptidase_C25	*PF01364*	Peptidase family C25
Peptidase_C25_C	*PF03785*	Peptidase family C25; C terminal ig-like domain
Peptidase_C58	*PF03543*	Yersinia/Haemophilus virulence surface antigen
Peptidase_M26_C	*PF07580*	M26 IgA1-specific Metallo-endopeptidase C-terminal region
Peptidase_M26_N	*PF05342*	M26 IgA1-specific Metallo-endopeptidase N-terminal region
Peptidase_M28	*PF04389*	Peptidase family M28
Peptidase_M4	*PF01447*	Thermolysin metallopeptidase catalytic domain
Peptidase_M4_C	*PF02868*	Thermolysin metallopeptidase alpha-helical domain
Peptidase_M9	*PF01752*	Collagenase
Peptidase_S8	*PF00082*	Subtilase family
Pertactin	*PF03212*	Pertactin
Pkinase	*PF00069*	Protein kinase domain
Plug	*PF07715*	TonB-dependent Receptor Plug Domain
Polysacc_deac_1	*PF01522*	Polysaccharide deacetylase
Prenyltrans	*PF00432*	Prenyltransferase and squalene oxidase repeat
Pro_isomerase	*PF00160*	Cyclophilin type peptidyl-prolyl cis-trans isomerase
Reg_prop	*PF07494*	Two component regulator propeller

ResIII	*PF04851*	Type III restriction enzyme
Response_reg	*PF00072*	Response regulator receiver domain
RrnaAD	*PF00398*	Ribosomal RNA adenine dimethylase
SCP	*PF00188*	SCP-like extracellular protein
SCPU	*PF05229*	Spore Coat Protein U domain
SH3_1	*PF00018*	SH3 domain
SPDY	*PF03771*	Domain of unknown function (DUF317)
STN	*PF07660*	Secretin and TonB N terminus short domain
ScdA_N	*PF04405*	Domain of Unknown function (DUF542)
Secretin	*PF00263*	Bacterial type II and III secretion system protein
Secretin_N	*PF03958*	Bacterial type II/III secretion system short domain
Secretin_N_2	*PF07655*	Secretin N-terminal domain
ShTK	*PF01549*	ShTK domain
Sialidase	*PF02973*	Sialidase N-terminal domain
Subtilisin_N	*PF05922*	Subtilisin N-terminal Region
TIG	*PF01833*	IPT/TIG domain
TPR_1	*PF00515*	Tetratricopeptide repeat
TSP_1	*PF00090*	Thrombospondin type 1 domain
Tash_PEST	*PF07708*	Tash protein PEST motif
TonB_dep_Rec	*PF00593*	TonB dependent receptor
Trans_reg_C	*PF00486*	Transcriptional regulatory protein C terminal domain
Transgly	*PF00912*	Transglycosylase
Transpeptidase	*PF00905*	Penicillin binding protein transpeptidase domain
WND	*PF07861*	WisP family N-Terminal Region
YSIRK_signal	*PF04650*	YSIRK type signal peptide
Y_Y_Y	*PF07495*	Two component regulator three Y motif
zf-C3HC4	*PF00097*	Zinc finger C3HC4 type (RING finger)
zf-CHY	*PF05495*	CHY zinc finger