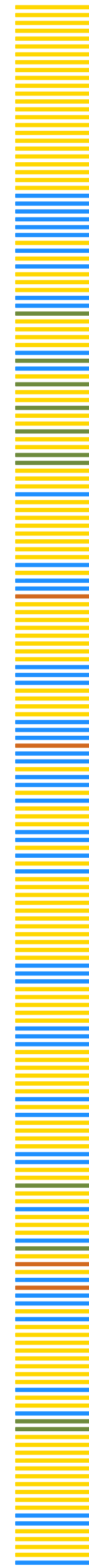


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Orphan
 Pair
 Triad
 Tetrad
 Pentad+

Cluster	Family	Domains
SCE1572_50590	Hybrid	1 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_49295	Hybrid	1 Res_4,2 GAF,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_28210	Hybrid	2 GAF,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_31285_2	Hybrid	2 HisKA,2 HATPase_c,2 Response_reg,1 PAS_4
SCE1572_29855	Hybrid	1 PAC,1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_29295	Hybrid	1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_27455	Hybrid	2 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_14465	Hybrid	4 PAS_3,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_04245	Hybrid	2 PAS_4,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_03690	Hybrid	3 GAF,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_00015	Hybrid	1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_26500	Hybrid	2 PAS_3,1 PAS,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_15985	Hybrid	2 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_41700	Hybrid	1 GAF,2 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_17295_2	Hybrid	2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_15860_2	Hybrid	2 Response_reg,2 PAS_3,1 HisKA,1 HATPase_c
SCE1572_08635_2	Hybrid	2 Response_reg,1 GAF,1 HisKA,1 HATPase_c
SCE1572_04835	Hybrid	1 MASE,1,2 PAS_3,1 PAS,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_26455_2	Hybrid	2 Response_reg,1 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_28880	Hybrid	1 Response_reg
SCE1572_00930	Hybrid	1 HisKA,2 HATPase_c,1 Response_reg
SCE1572_05800	Hybrid	1 PAS_4,2 HisKA,2 HATPase_c,1 Response_reg
SCE1572_31285_1	Hybrid	2 HisKA,2 HATPase_c,2 Response_reg,1 PAS_4
SCE1572_01890	Hybrid	2 PAS_4,2 HisKA,2 HATPase_c,1 Response_reg
SCE1572_28765	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_12475	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_15300	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_29295	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_14675	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_09230	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_30820	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_17945	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_46610	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_05610	Hybrid	1 Response_reg,1 Trans_reg_C
SCE1572_17295_1	Hybrid	2 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_04160	Hybrid	1 Response_reg,2 PAS_4,1 HisKA,1 HATPase_c
SCE1572_48995	Hybrid	1 Response_reg,1 STAS
SCE1572_40015	Hybrid	1 Response_reg,1 STAS
SCE1572_24035	Hybrid	1 Response_reg,1 STAS
SCE1572_05590	Hybrid	1 Response_reg,1 Guanylate_cyc
SCE1572_30115	Hybrid	1 Response_reg,1 STAS
SCE1572_05590	Hybrid	1 Response_reg,1 STAS
SCE1572_43595	Hybrid	1 Response_reg,2 PAS_4,1 HisKA,1 HATPase_c
SCE1572_29590	Hybrid	1 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_29595	Hybrid	1 S_TKc,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_24090	Hybrid	1 S_TKc,1 GAF,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_40125	Hybrid	2 PAS,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_40010	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_22310	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
SCE1572_33905	Hybrid	1 Response_reg
SCE1572_43590	Hybrid	1 GAF,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_04165	Hybrid	1 S_TKc,1 GAF,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_33910	Hybrid	1 Response_reg
SCE1572_17430	Hybrid	1 Response_reg,1 GGDEF
SCE1572_24120	Hybrid	1 Response_reg,1 Guanylate_cyc
SCE1572_33915_1	Hybrid	1 HisKA,1 HATPase_c,2 Response_reg
SCE1572_30985_3	Hybrid	8 HAMP,1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
SCE1572_47320	Hybrid	1 Response_reg,1 PAS_4,1 GAF,1 HisKA,1 HATPase_c
SCE1572_20675_2	Hybrid	2 Response_reg
SCE1572_33915_2	Hybrid	1 HisKA,1 HATPase_c,2 Response_reg
SCE1572_00055_2	Hybrid	1 Response_reg
SCE1572_12485	Hybrid	1 Response_reg
SCE1572_10985	Hybrid	1 Response_reg
SCE1572_15865	Hybrid	1 Response_reg
SCE1572_05675	Hybrid	1 Response_reg
SCE1572_43810	Hybrid	1 Response_reg
SCE1572_15860_1	Hybrid	2 Response_reg,2 PAS,1 HisKA,1 HATPase_c
SCE1572_25875	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_11775	Hybrid	1 Response_reg,1 AAA,1 HTH_8
SCE1572_18095	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_26775	Hybrid	1 Response_reg,1 HTH_LUXR
SCE1572_10635	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_46190	Hybrid	1 Response_reg,1 HTH_8
SCE1572_16365	Hybrid	1 Response_reg,1 AAA_5
SCE1572_43920	Hybrid	1 Response_reg,1 HTH_8
SCE1572_35735	Hybrid	1 Response_reg
SCE1572_60290	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_45260	Hybrid	1 Response_reg,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_11200	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
SCE1572_05180_1	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_34400	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_15255	Hybrid	1 Response_reg,1 GAF,1 HD
SCE1572_15335	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_10445	Hybrid	1 Response_reg,1 AAA,1 HTH_8
SCE1572_17585	Hybrid	1 Response_reg,1 AAA,1 HTH_8
SCE1572_40830	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_19835	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_44970	Hybrid	1 Response_reg
SCE1572_40375	Hybrid	1 Response_reg
SCE1572_38895	Hybrid	1 Response_reg
SCE1572_04235	Hybrid	1 Response_reg,1 HTH_XRE
SCE1572_40935	Hybrid	1 Response_reg
SCE1572_46995	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_31300	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_44935	Hybrid	2 Response_reg,1 AAA,1 HTH_8
SCE1572_50285_1	Hybrid	2 Response_reg
SCE1572_31510_1	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_17155	Hybrid	1 Response_reg,1 CheB_methylest
SCE1572_15895	Hybrid	1 Response_reg
SCE1572_05775	Hybrid	1 Response_reg,1 CheB_methylest
SCE1572_05465	Hybrid	1 Response_reg,1 CheB_methylest
SCE1572_44440	Hybrid	1 REC
SCE1572_08460	Hybrid	1 Response_reg,1 PAS_1 PAS_3,1 HisKA,1 HATPase_c
SCE1572_47435	Hybrid	1 Response_reg,1 GGDEF
SCE1572_47420_1	Hybrid	1 Hpt,2 Response_reg
SCE1572_30985_2	Hybrid	8 HAMP,1 GAF,1 HisKA,1 HATPase_c,3 Response_reg
SCE1572_05470	Hybrid	1 REC
SCE1572_08520	Hybrid	1 Hpt,1 HATPase_c,1 CheW,1 Response_reg
SCE1572_08465	Hybrid	1 Response_reg
SCE1572_49060	Hybrid	1 Response_reg
SCE1572_34655_2	Hybrid	2 Response_reg
SCE1572_52015	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_50055	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_17435	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_35745	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_05590	Hybrid	1 Response_reg
SCE1572_07835	Hybrid	1 Response_reg
SCE1572_12030	Hybrid	1 S_TKc,1 Response_reg,1 Guanylate_cyc
SCE1572_01995	Hybrid	1 S_TKc,1 Response_reg,1 Guanylate_cyc
SCE1572_22750	Hybrid	1 Response_reg
SCE1572_10165	Hybrid	1 Response_reg,1 CheB_methylest
SCE1572_37175	Hybrid	1 Response_reg
SCE1572_32915	Hybrid	1 Response_reg
SCE1572_35825	Hybrid	1 Response_reg
SCE1572_46755	Hybrid	1 Response_reg
SCE1572_42505	Hybrid	1 Response_reg
SCE1572_35200	Hybrid	1 Response_reg
SCE1572_10875	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_05180_2	Hybrid	2 Response_reg,1 HisKA,1 HATPase_c
SCE1572_27705	Hybrid	1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_08485_1	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
SCE1572_50010	Hybrid	1 Response_reg
SCE1572_44995	Hybrid	1 Response_reg,1 PAS_4,1 STAS
SCE1572_51945	Hybrid	1 Response_reg
SCE1572_27410	Hybrid	1 Response_reg,1 HTH_8
SCE1572_37220	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
SCE1572_24255	Hybrid	1 Response_reg
SCE1572_32435	Hybrid	1 Response_reg
SCE1572_13445	Hybrid	1 Response_reg,1 PAS_3,1 STAS
SCE1572_24640	Hybrid	1 Response_reg
SCE1572_23085	Hybrid	1 Response_reg,1 GAF,1 HisKA,1 HATPase_c
SCE1572_50005	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
SCE1572_13455	Hybrid	1 Response_reg
SCE1572_08330	Hybrid	1 Response_reg
SCE1572_00140	Hybrid	1 Response_reg
SCE1572_46655	Hybrid	1 Response_reg,1 LytTR
SCE1572_02390	Hybrid	1 Response_reg,1 AAA_5,1 HTH_8
SCE1572_24900	Hybrid	1 HD,1 Response_reg
SCE1572_03085	Hybrid	1 Response_reg
SCE1572_10450	Hybrid	2 Response_reg
SCE1572_20675_1	Hybrid	1 Response_reg
SCE1572_18350	Hybrid	1 Response_reg
SCE1572_41170	Hybrid	1 Response_reg
SCE1572_10135	Hybrid	1 Response_reg,1 HTH_LUXR
SCE1572_29605	Hybrid	1 Response_reg,1 HTH_LUXR
SCE1572_23795	Hybrid	1 Response_reg,1 HTH_LUXR
SCE1572_47285	Hybrid	1 Response_reg,1 LytTR
SCE1572_26550	Hybrid	1 Response_reg,1 CheB_methylest
SCE1572_20690	Hybrid	2 Response_reg,1 PAS_3,1 PAS_4,1 HisKA,1 HATPase_c
SCE1572_26455_1	Hybrid	1 Response_reg
SCE1572_50270	Hybrid	1 Response_reg
SCE1572_35615	Hybrid	1 Response_reg
SCE1572_31530	Hybrid	1 Response_reg
SCE1572_50285_2	Hybrid	2 Response_reg
SCE1572_31510_2	Hybrid	2 Response_reg
SCE1572_27505	Hybrid	1 Response_reg,1 STAS
SCE1572_25300	Hybrid	1 Response_reg,1 PAS
SCE1572_08490	Hybrid	1 Response_reg
SCE1572_05490	Hybrid	1 Response_reg
SCE1572_47290	Hybrid	1 Response_reg
SCE1572_37955	Hybrid	1 Response_reg
SCE1572_21780	Hybrid	1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_04075	Hybrid	2 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_23645	Hybrid	1 PAS_3,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_50065	Hybrid	1 CheB_methylest,1 MeTrc,2 PAS,1 PAS_4,1 HisKA,1 HATPase_c,1 Response_reg
SCE1572_21710	Hybrid	1 Response_reg
SCE1572_16465	Hybrid	1 Response_reg
SCE1572_19805	Hybrid	1 Response_reg
SCE1572_17975	Hybrid	1 Response_reg
SCE1572_08485_2	Hybrid	1 HAMP,1 HisKA,1 HATPase_c,2 Response_reg,1 Hpt
SCE1572_30120	Hybrid	1 Response_reg,1 HisKA,1 HATPase_c
SCE1572_30685	Hybrid	1 Hpt,1 HATPase_c,1 CheW,1 Response_reg