Homogroups/Orthogroup	Species sample	File name in Table 4	#	SP # (see Ge	File name in repository (Use \$find *Text-in-cell*)	E-value	I-valu
Ortho	Opi	Opi-ortho-disAb	1	47	Opi-ortho-disAb	1.00E-03	1.5
Ortho	OpiXen	OpiXen-ortho-disAb	2	41	OpiXen_ortho_disAb41	1.00E-03	1.5
Ortho	OpiAco	OpiAco-ortho-disAb	3	44	OpiAco_ortho_disAb44	1.00E-03	1.5
Ortho	Opi	Opi-ortho-neAb	4	44	Opi-ortho-neAb	1.00E-03	1.5
Ortho	OpiXen	OpiXen-ortho-neAb	5	38	OpiXen-ortho-neAb	1.00E-03	1.5
Ortho	OpiAco	OpiAco-ortho-neAb	6	41	OpiAco_ortho_neAb	1.00E-03	1.5
Ortho	Hol	Hol-ortho-disAb	7	41	Hol_ortho_disAb	1.00E-03	1.5
	HolXen	HolXen-ortho-disAb	8	35	HolXen_ortho_disAb	1.00E-03	
	HolAco	HolAco-ortho-disAb	9	38	HolAco_ortho_disAb	1.00E-03	
	Hol	Hol-ortho-neAb	10	38	Hol_ortho_neAb	1.00E-03	
	HolXen	HolXen-ortho-neAb	11	32	HolXen_ortho-neAb	1.00E-03	
	HolAco Cho	HolAco-ortho-neAb Cho-ortho-disAb	12	35 39	HolAco_ortho_neAb Cho-ortho-disAb	1.00E-03 1.00E-03	
	ChoXen	ChoXen-ortho-disAb	14	33	ChoXen_ortho_disAb	1.00E-03	
Ortho	ChoAco	ChoAco-ortho-disAb	15	36	ChoAco_ortho_disAb	1.00E-03	
Ortho	Cho	Cho-ortho-neAb	16	36	Cho_ortho_neAb	1.00E-03	
	ChoXen	ChoXen-ortho-neAb	17	30	ChoXen ortho neAb	1.00E-03	
Ortho	ChoAco	ChoAco-ortho-neAb	18	33	ChoAco_ortho_neAb	1.00E-03	
	OpiXen	OpiXen-ortho-disP	19	41	OpiXen_ortho_disP	1.00E-03	
Ortho	OpiAco	OpiAco-ortho-disP	20	44	OpiAco-ortho-disP	1.00E-03	
	Opi	Opi-ortho-neP	21	44	Opi-ortho-neP	1.00E-03	
Ortho	OpiXen	OpiXen-ortho-neP	22	38	OpiXen-ortho-neP	1.00E-03	
Ortho	OpiAco	OpiAco-ortho-neP	23	41	OpiAco-ortho-neP	1.00E-03	
	Hol	Hol-ortho-disP	24	41	Hol-ortho-disP	1.00E-03	
Ortho	HolXen	HolXen-ortho-disP	25	35	HolXen-ortho-disP	1.00E-03	1.5
Ortho	HolAco	HolAco-ortho-disP	26	38	HolAco-ortho-disP	1.00E-03	1.5
Ortho	Hol	Hol-ortho-neP38	27	38	Hol-ortho-neP38	1.00E-03	1.5
Ortho	HolXen	HolXen-ortho-neP	28	32	HolXen-ortho-neP	1.00E-03	1.5
Ortho	HolAco	HolAco-ortho-neP	29	35	HolAco-ortho-neP	1.00E-03	1.5
Ortho	Cho	Cho-ortho-disP	30	39	Cho-ortho-disP39	1.00E-03	1.5
Ortho	ChoXen	ChoXen-ortho-disP	31	33	ChoXen-ortho-disP	1.00E-03	1.5
Ortho	ChoAco	ChoAco-ortho-disP	32	36	ChoAco-ortho-disP	1.00E-03	1.5
Ortho	Cho	Cho-ortho-neP	33	36	Cho-ortho-neP	1.00E-03	1.5
Ortho	ChoXen	ChoXen-ortho-neP	34	30	ChoXen-ortho-neP	1.00E-03	1.5
Ortho	ChoAco	ChoAco-ortho-neP	35	33	ChoAco-ortho-neP33	1.00E-03	1.5
Homo	Opi	Opi-homo-disAb	36	47	Opi-homo-disAb47	1.00E-03	1.5
Homo	OpiXen	OpiXen-homo-disAb	37	41	OpiXen-homo-disAb41	1.00E-03	1.5
Homo	OpiAco	OpiAco-homo-disAb	38	44	OpiAco.BLAST_Results_dis.1e3_1.5.mcl.out.fasta.nexus	1.00E-03	
Homo	Opi	Opi-homo-neAb	39	44	Opi-homo-neAb44	1.00E-03	
Homo	OpiXen	Opi-homo-neAb	40	38	OpiXen-homo-neAb38	1.00E-03	
	OpiAco	OpiAco-homo-neAb	41	41	OpiAco-homo-neAb41	1.00E-03	
	Hol	Hol-homo-disAb	42	41	Hol-homo-disAb41	1.00E-03	
	HolXen	HolXen-homo-disAb	43	35	HolXen-homo-disAb	1.00E-03	
	HolAco	HolAco-homo-disAb	44	38	HolAco-homo-SCMA_is_in_disAb	1.00E-03	
	Hol	Hol-homo-neAb	45	38	Hol-homo-neAb38-cluster.Hol-homo-neAb.BLAST_Results.1e3_1.5.mcl	1.00E-03	
Homo	HolXen	HolXen-homo-neAb	46	32	HolXen.BLAST_Results_ne.1e3_1.5.mcl.out	1.00E-03	
Homo	HolAco Cho	HolAco-homo-neAb Cho-homo-disAb	47	35 39	cluster.HolXen-homo-neAb.BLAST_Results.1e3_1.5.mcl.table Cho-homo-disAb	1.00E-03 1.00E-03	
	ChoXen	Cho-nomo-disAb  ChoXen-homo-disAb	48	33	Cho-nomo-disAb cluster.Aco.BLAST Results.1e3 1.5	1.00E-03	
Homo	ChoAco	ChoAco-homo-disAb	50	36	cluster.Aco.BLAS1_Results.1e3_1.5 cluster.Xen.BLAST_Results.1e3_1.5.mcl.table.fasta.nexus	1.00E-03	
Homo	Cho	Cho-homo-neAb	51	36	cluster.Aen.BLAS1_Results.1e3_1.5.mcl.table.rasta.nexus	1.00E-03	
Homo	ChoXen	ChoXen-homo-neAb	52	30	ChoXen-homo-disAb33	1.00E-03	
Homo	ChoAco	ChoAco-homo-neAb	53	33	cluster.ChoXen-homo-neAb.BLAST_Results.1e3_1.5.mcl.table.fasta.nexus	1.00E-03	
Homo	OpiXen	OpiXen-homo-disP	54	41	OpiXen-homo-disP41	1.00E-03	
Homo	ОріАсо	OpiAco-homo-disP	55	44	OpiAco-homo-disP44-slurm	1.00E-03	
	Орі	Opi-homo-neP	56	44	Opi-homo-neP44	1.00E-03	
Iomo	OpiXen	OpiXen-homo-neP	57	38	OpiXen-homo-neP38	1.00E-03	
Iomo	OpiAco	OpiAco-homo-neP	58	41	OpiAco-homo-neP41	1.00E-03	
	Hol	Hol-homo-disP	59	41	Hol-homo-disP41	1.00E-03	
	HolXen	HolXen-homo-disP	60	35	HolXen-homo-disP35	1.00E-03	
	HolAco	HolAco-homo-disP	61	38	HolAco-homo-disP38	1.00E-03	
	Hol	Hol-homo-neP	62	38	Hol_homo_ne38	1.00E-03	
	HolXen	HolXen-homo-neP	63	32	HolXen-homo-neP	1.00E-03	
	HolAco	HolAco-homo-neP	64	32	table.64-HolAco-homo-neP	1.00E-03	
	Cho	Cho-homo-disP	65	39	Cho-homo-disP39-cluster.Opi.BLAST_Results.1e3_1.5.mcl	1.00E-03	
Homo	ChoXen	ChoXen-homo-disP	66	33	ChoXen-homo-disP33-table.HolXen_homo_dis33	1.00E-03	
Homo	ChoAco	ChoAco-homo-disP	67	36	ChoAco-homo-disP36	1.00E-03	
	Cho	Cho-homo-neP	68	36	Cho-homo-neP36	1.00E-03	

Species sample	File name in Table 4	#	SP # (see Ger	File name in repository (Use \$find *Text-in-cell*)	E-value	I-value
ChoXen	ChoXen-homo-neP	69	30	ChoXen-homo-neP	1.00E-03	1.5
ChoAco	ChoAco-homo-neP	70	33	ChoAco-homo-neP	1.00E-03	1.5
Xen	Non	Non	41	Diamond_41sp_Xen_1e-12_Results_allVSall.txt.abc.1.5	1.00E-12	1.5
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-12_Results_allVSall.txt.abc.l20	1.00E-12	2
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-12_Results_allVSall.txt.abc.125	1.00E-12	2.5
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-12_Results_allVSall.txt.abc.140	1.00E-12	4
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-12_Results_allVSall.txt.abc.I60	1.00E-12	6
Xen	Non	Non		Diamond_41sp_Xen_1e-9_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=41 nchar=24997;		
Xen	Non	Non	41	out.Diamond 41sp Xen 1e-5 Results allVSall.txt.abc.140		
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-5_Results_allVSall.txt.abc.160	1.00E-05	6
Xen	Non	Non	41	Diamond_41sp_Xen_1e-2_Results_allVSall.txt.abc.1.5.mcl.out.fasta	1.00E-02	1.5
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-2_Results_allVSall.txt.abc.120	1.00E-02	2
Xen	Non	Non	41	Diamond_41sp_Xen_1e-2_Results_allVSall.txt.abc.1e2_M_2.5.mcl.out.fasta	1.00E-02	2.5
Xen	Non	Non	41	out.Diamond_41sp_Xen_1e-2_Results_allVSall.txt.abc.I40	1.00E-02	4
Xen	Non	Non	41	Diamond_41sp_Xen_1e-2_Results_allVSall.txt.abc.1e2_M_6.mcl.table.fasta:dimensions ntax=41 nchar=45671;	1.00E-02	6
Aco	Non	Non	44	Diamond_44sp_Aco_1e-12_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=44 nchar=27784;	1.00E-12	1.5
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-12_Results_allVSall.txt.abc.120	1.00E-12	2
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-12_Results_allVSall.txt.abc.125		
Aco	Non	Non		out.Diamond_44sp_Aco_1e-12_Results_allVSall.txt.abc.140		
Aco	Non	Non		out.Diamond_44sp_Aco_1e-12_Results_allVSall.txt.abc.I60		
			44			
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-5_Results_allVSall.txt.abc.I40	1.00E-05	4
Aco	Non	Non	44	out.Diamond 44sp_Aco_1e-5_Results_allVSall.txt.abc.I60	1.00E-05	6
Aco	Non	Non	44	Diamond_44sp_Aco_1e-2_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=44 nchar=31891;	1.00E-02	1.5
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-2_Results_allVSall.txt.abc.120	1.00E-02	2
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-2_Results_allVSall.txt.abc.125	1.00E-02	2.5
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-2_Results_allVSall.txt.abc.I40	1.00E-02	4
Aco	Non	Non	44	out.Diamond_44sp_Aco_1e-2_Results_allVSall.txt.abc.160	1.00E-02	6
Opi	Non	Non	47	Diamond_47sp_Opi_1e-12_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=47 nchar=28679;		
Opi	Non	Non	47	Diamond_47sp_Opi_1e-12_Results_allVSall.txt.abc.2.mcl.out.fasta:dimensions ntax=47 nchar=34487;		
Opi	Non	Non	47			
	Non	Non	47			
	Non	Non	47	Diamond 47sp_Opi_1e-5_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=47 nchar=31634;		
Орі	Non	Non	47	Diamond 47sp_Opi_1e-5_Results_allVSall.txt.abc.2.mcl.out.fasta:dimensions ntax=47 nchar=38721;		
Орі	Non	Non	47	Diamond_47sp_Opi_1e-5_Results_allVSall.txt.abc.2.5.mcl.out.fasta:dimensions ntax=47 nchar=42746;		
Opi	Non	Non	47	Diamond_47sp_Opi_1e-5_Results_allVSall.txt.abc.4.mcl.out.fasta:dimensions ntax=47 nchar=49865;		
Opi	Non	Non	47	Diamond_47sp_Opi_1e-5_Results_allVSall.txt.abc.6.mcl.out.fasta:dimensions ntax=47 nchar=55118;	1.00E-05	6
Opi	Non	Non	47	Diamond_47sp_Opi_1e-2_Results_allVSall.txt.abc.1.5.mcl.out.fasta:dimensions ntax=47 nchar=33506;	1.00E-02	1.5
Opi	Non	Non	47	Diamond_47sp_Opi_1e-2_Results_allVSall.txt.abc.2.mcl.out.fasta:dimensions ntax=47 nchar=41248;	1.00E-02	2
Opi	Non	Non	47	Diamond_47sp_Opi_1e-2_Results_allVSall.txt.abc.2.5.mcl.out.fasta:dimensions ntax=47 nchar=45532;	1.00E-02	2.5
Opi	Non	Non	47	Diamond_47sp_Opi_1e-2_Results_allVSall.txt.abc.4.mcl.out.fasta:dimensions ntax=47 nchar=53090;	1.00E-02	4
Xen	Non	Non	41	Results_1e-1241sp_1.5	1.00E-12	1.5
Xen	Non	Non	41	Results_1e-541sp_1.5	1.00E-05	1.5
Xen	Non	Non	41	Results_1e-1241sp_2.mcl.out.fasta	1.00E-12	2
Xen	Non	Non	41	Results_1e-1241sp_2.5.mcl.out.fasta	1.00E-12	2.5
Xen	Non	Non	41	Results_1e-1241sp_4.mcl.out.fasta	1.00E-12	4
	ChoAco           Xen           Aco           Aco	ChoXen         ChoXen-hom-neP           ChoAco         ChoAco-hom-neP           Xen         Non           Aco         Non	Choxen         Choxen-homoneP         69           ChoAco         ChoAco-homoneP         70           Xen         Non         Non           Aco         Non         Non           Aco         Non		Checker   Chec	OND-Robert Coloration         OND-Robert Decide Coloration         (90.40)           Coloration         Note No.         80         30         Coloration         (90.60)           No.         No.         80         80         41         School Book Book Book Book Book Book Book B

Homogroups/Orthogroup	Species sample	File name in Table 4	#	SP#(see Ger	File name in repository (Use \$find *Text-in-cell*)	E-value	I-value
Ortho	Xen	Non	Non	41	Results_1e-9. 41sp_2	1.00E-09	
Ortho	Xen	Non	Non	41	Results 1e-9. 41sp 2.5	1.00E-09	2.5
Ortho	Xen	Non	Non	41	Results_1e-9. 41sp_4	1.00E-09	
Ortho	Xen	Non	Non	41	Results_1e-9. 41sp_6	1.00E-09	6
Ortho	Xen	Non	Non	41	Results_1e-5. 41sp_2	1.00E-05	
Ortho	Xen	Non	Non	41	Results_1e-541sp_2.5	1.00E-05	
Ortho	Xen	Non	Non	41	Results_1e-5_ 41sp_4	1.00E-05	
Ortho	Xen	Non	Non	41	Results_1e-5_ 41sp_6	1.00E-05	
Ortho	Xen	Non	Non	41	Results_1e-2_41sp_1.5	1.00E-02	
Ortho	Xen	Non	Non	41	Results_1e-2_41sp_1.5  Results_1e-2_41sp_2.mcl.out.fasta	1.00E-02	
Ortho	Xen	Non	Non	41		1.00E-02	
					Results_1e-2_41sp_2.5.mcl.out.fasta		
Ortho	Xen	Non	Non	41	Results_1e-241sp_4.mcl.out.fasta	1.00E-02	
Ortho	Xen	Non	Non	41	Results_1e-241sp_6.mcl.out.fasta	1.00E-02	
Ortho	Aco	Non	Non	44	Results_1e-12_44sp_1.5.mcl.out.fasta	1.00E-12	
Ortho	Aco	Non	Non	44	Results_1e-12_44sp_2.mcl.out.fasta	1.00E-12	
Ortho	Aco	Non	Non	44	Results_1e-12_44sp_2.5.mcl.out.fasta	1.00E-12	
Ortho	Aco	Non	Non	44	Results_1e-12_44sp_4.mcl.out.fasta	1.00E-12	
Ortho	Aco	Non	Non	44	Results_1e-12_44sp_6.mcl.out.fasta	1.00E-12	
Ortho	Aco	Non	Non	44	Results_1e-9_44sp_1.5	1.00E-09	
Ortho	Aco	Non	Non	44	Results_1e-9_44sp_2	1.00E-09	
Ortho	Aco	Non	Non	44	Results_1e-944sp_2.5.mcl.out.fasta	1.00E-09	
Ortho	Aco	Non	Non	44	Results_1e-944sp_4	1.00E-09	4
Ortho	Aco	Non	Non	44	Results_1e-9_44sp_6	1.00E-09	6
Ortho	Aco	Non	Non	44	Results_1e-544sp_1.5.mcl.out.fasta	1.00E-05	1.5
Ortho	Aco	Non	Non	44	Results_1e-544sp_2.mcl.out.fasta	1.00E-05	2
Ortho	Aco	Non	Non	44	Results_1e-544sp_2.5.mcl.out.fasta	1.00E-05	2.5
Ortho	Aco	Non	Non	44	Results_1e-5_44sp_4.mcl.out.fasta	1.00E-05	4
Ortho	Aco	Non	Non	44	Results_1e-544sp_6.mcl.out.fasta	1.00E-05	6
Ortho	Aco	Non	Non	44	Results_1e-9_47sp_1.5.mcl.out.fasta	1.00E-02	1.5
Ortho	Aco	Non	Non	44	Results_1e-244sp_2	1.00E-02	2
Ortho	Aco	Non	Non	44	Results_1e-244sp_2.5	1.00E-02	2.5
Ortho	Aco	Non	Non	44	Results_1e-244sp_4	1.00E-02	4
Ortho	Aco	Non	Non	44	Results_1e-244sp_6	1.00E-02	6
Ortho	Opi	Non	Non	47	Results_1e-1247sp_1.5.mcl.out.fasta	1.00E-12	1.5
Ortho	Opi	Non	Non	47	Results_1e-1247sp_2.5.mcl.out.fasta	1.00E-12	2
Ortho	Opi	Non	Non	47	Results_1e-1247sp_2.mcl.out.fasta	1.00E-12	2.5
Ortho	Opi	Non	Non	47	Results_1e-1247sp_4.mcl.out.fasta	1.00E-12	4
Ortho	Opi	Non	Non	47	Results 1e-12. 47sp 6.mcl.out.fasta	1.00E-12	6
Ortho	Opi	Non	Non	47	Results_1e-9. 47sp_1.5.mcl.out.fasta	1.00E-09	1.5
Ortho	Opi	Non	Non	47	Results_1e-9_47sp_2.5.mcl.out.fasta	1.00E-09	
Ortho	Opi	Non	Non	47	Results_1e-9_47sp_2.mcl.out.fasta	1.00E-09	
Ortho	Орі	Non	Non	47	Results_1e-9. 47sp 4.mcl.out.fasta	1.00E-09	
Ortho	Opi	Non	Non	47	Results_1e-947sp_6.mcl.out.fasta	1.00E-09	
Ortho	Орі	Non	Non	47	Results_1e-5_47sp_0.incl.out.fasta	1.00E-09	
Ortho	Орі	Non	Non	47	Results_1e-547sp_1.5_1.incl.out.fasta	1.00E-05	
Ortho	Орі	Non	Non	47	Results_1e-5_4/sp_2.5.mei.out.rasta  Results_1e-5_4/sp_2.mei.out.fasta	1.00E-05	
Ortho		Non	Non	47	Results_1e-54/sp_2.met.out.fasta	1.00E-05	
	Opi			47			
Ortho	Opi	Non	Non		Results_1e-5_47sp_6.mcl.out.fasta	1.00E-05	
Ortho	Opi	Non	Non	47	Results_1e-2_47sp_1.5_1.mcl.out.fasta	1.00E-02	
Ortho	Opi	Non	Non	47	Results_1e-2_47sp_2.5.mcl.out.fasta	1.00E-02	
Ortho	Opi	Non	Non	47	Results_1e-247sp_2.mcl.out.fasta	1.00E-02	
Ortho	Opi	Non	Non	47	Results_1e-247sp_4.mcl.out.fasta	1.00E-02	
Homo	Opi	Non	Non	47	Diamond_47sp_Opi_1e-2_Results_allVSall.txt.abc.6.mcl.out.fasta	1.00E-02	
Ortho	Opi	Non	Non	47	Results_1e-247sp_6.mcl.out.fasta	1.00E-02	6