

Group 3

78778033



291530358

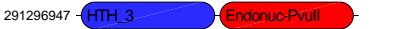


Group 5

15020665



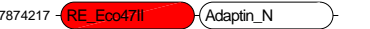
Group 7



Group 9



Group 14



Group 15



Group 17



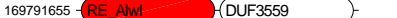
Group 31



Group 33



Group 34



Group 35



Group 36

123442098 - Eco57I

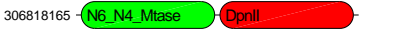
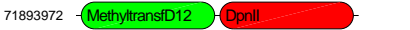
BsuBI_PstI_RE

307152624 - DNA_methylase

DNA_methylase

BsuBI_PstI_RE

Group 37



Group 38



Group 40

119357711



78189693

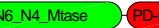


Group 42



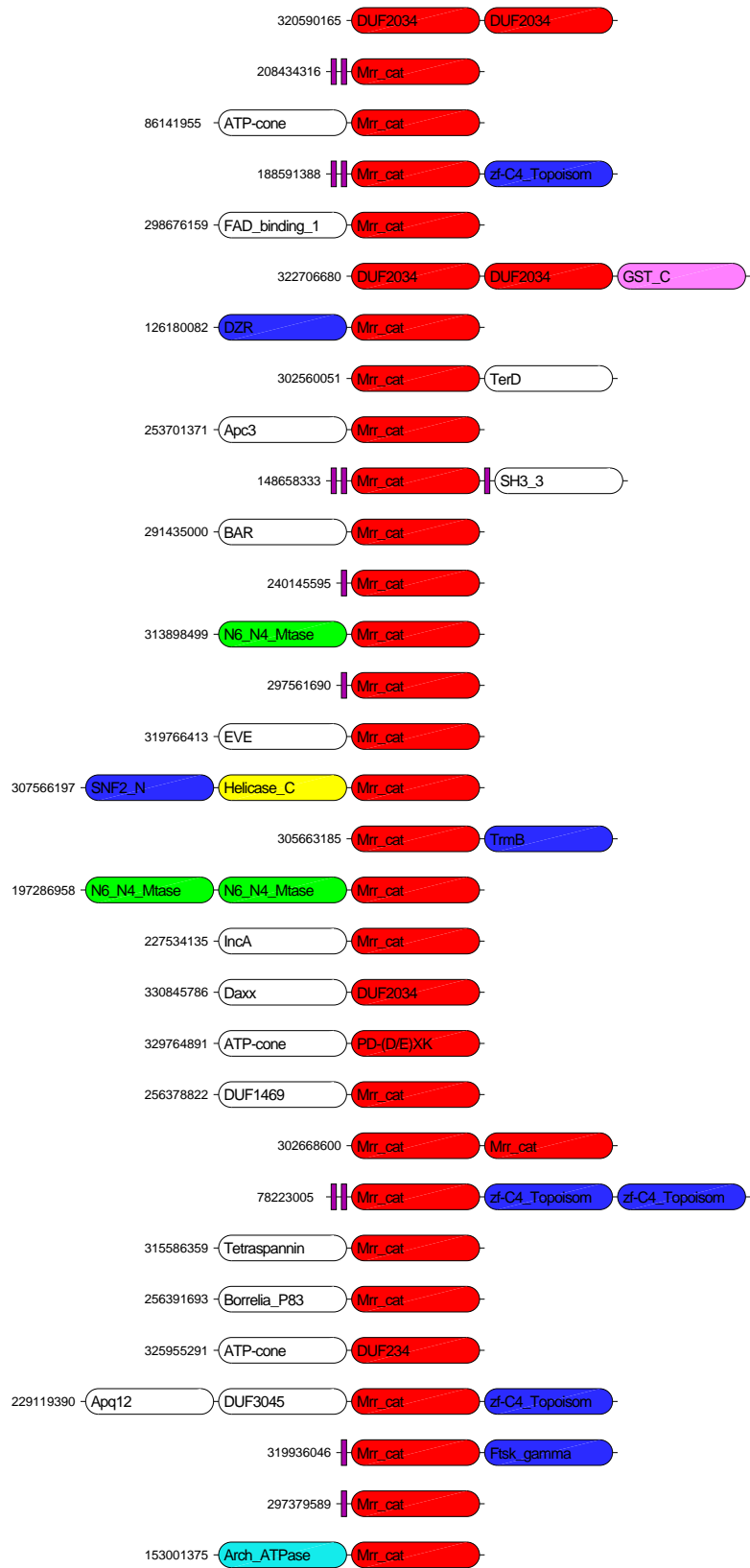
Group 46

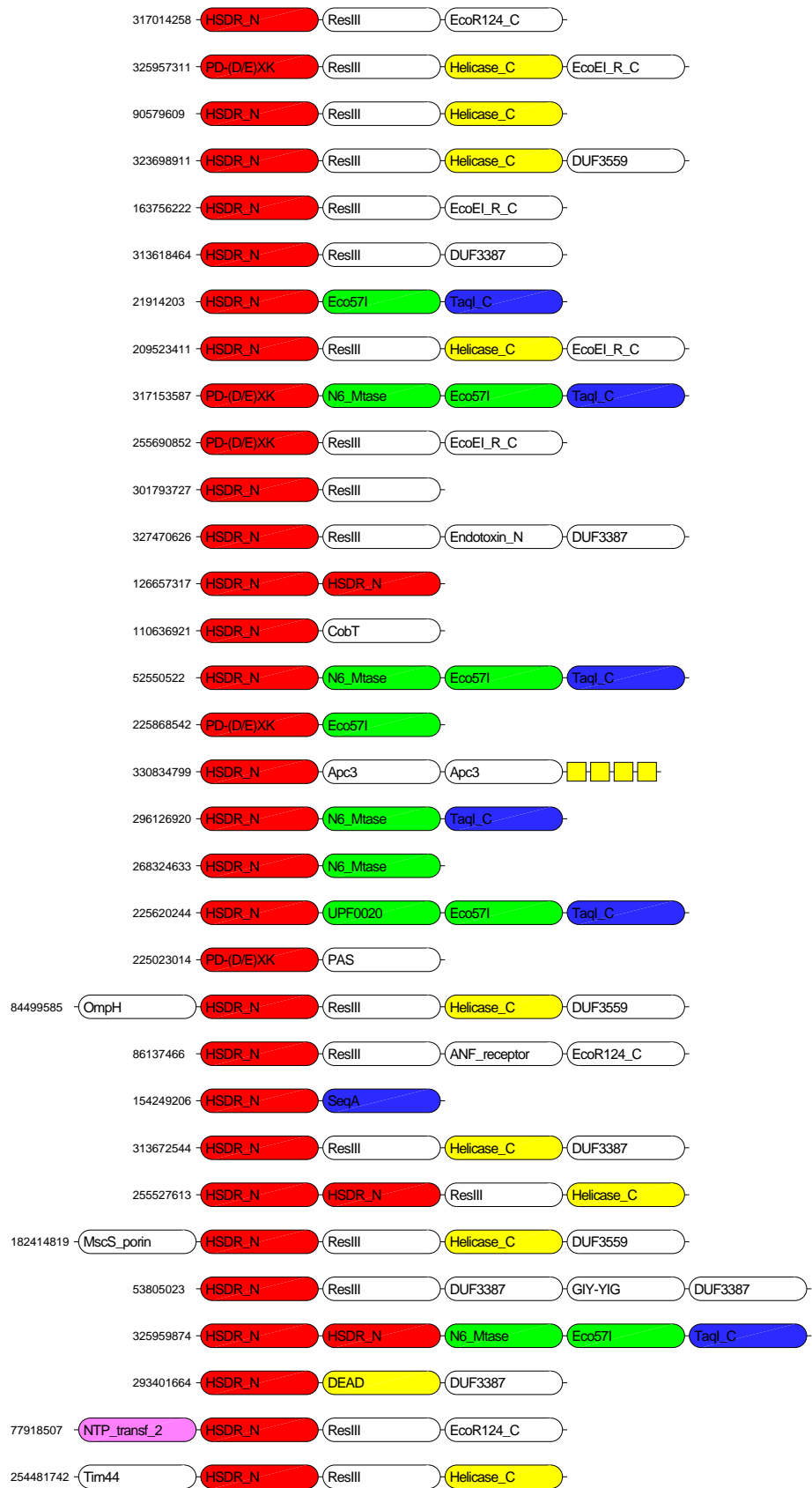
261379137

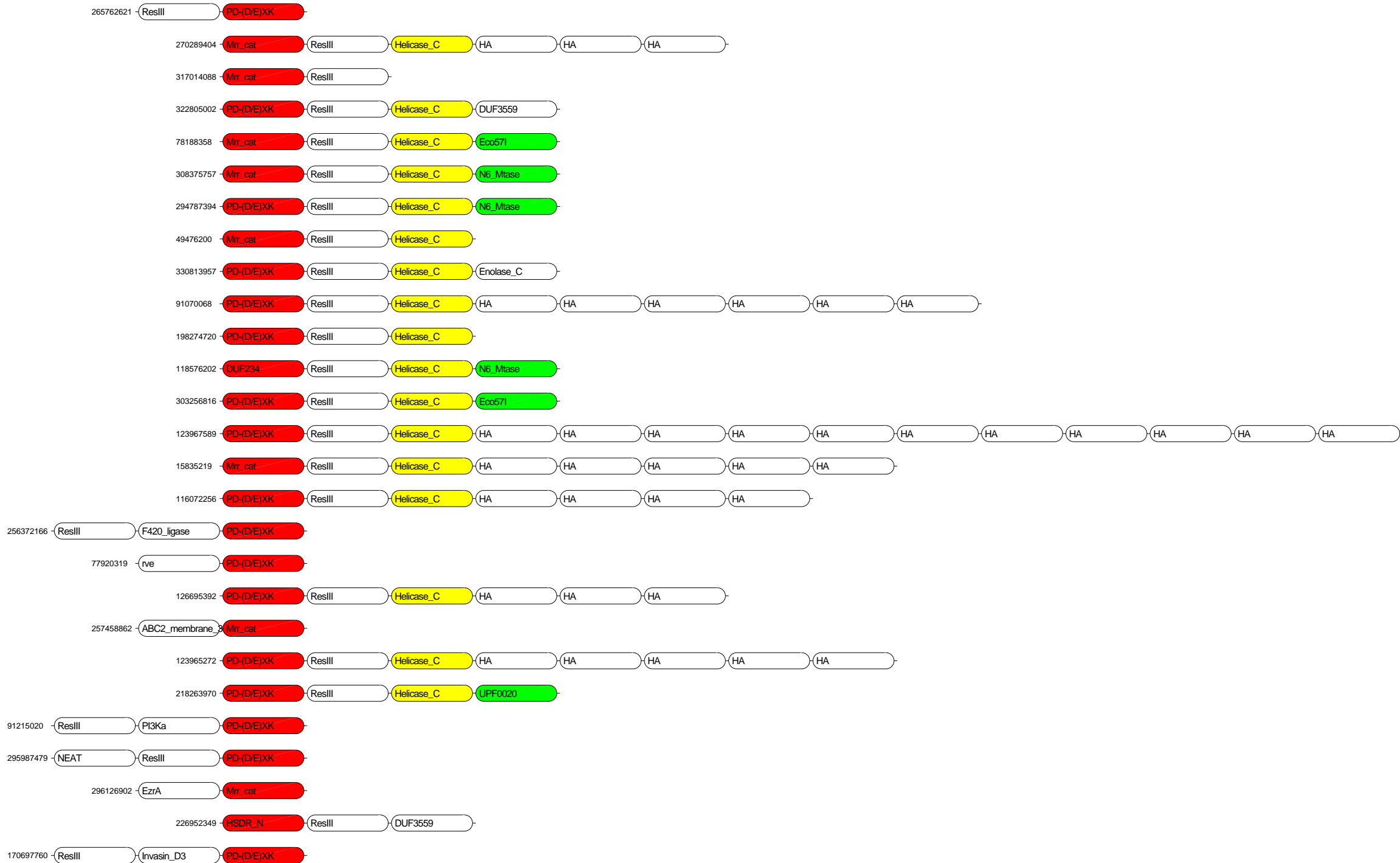


N6_N4_Mtase

PD-(D/E)XK

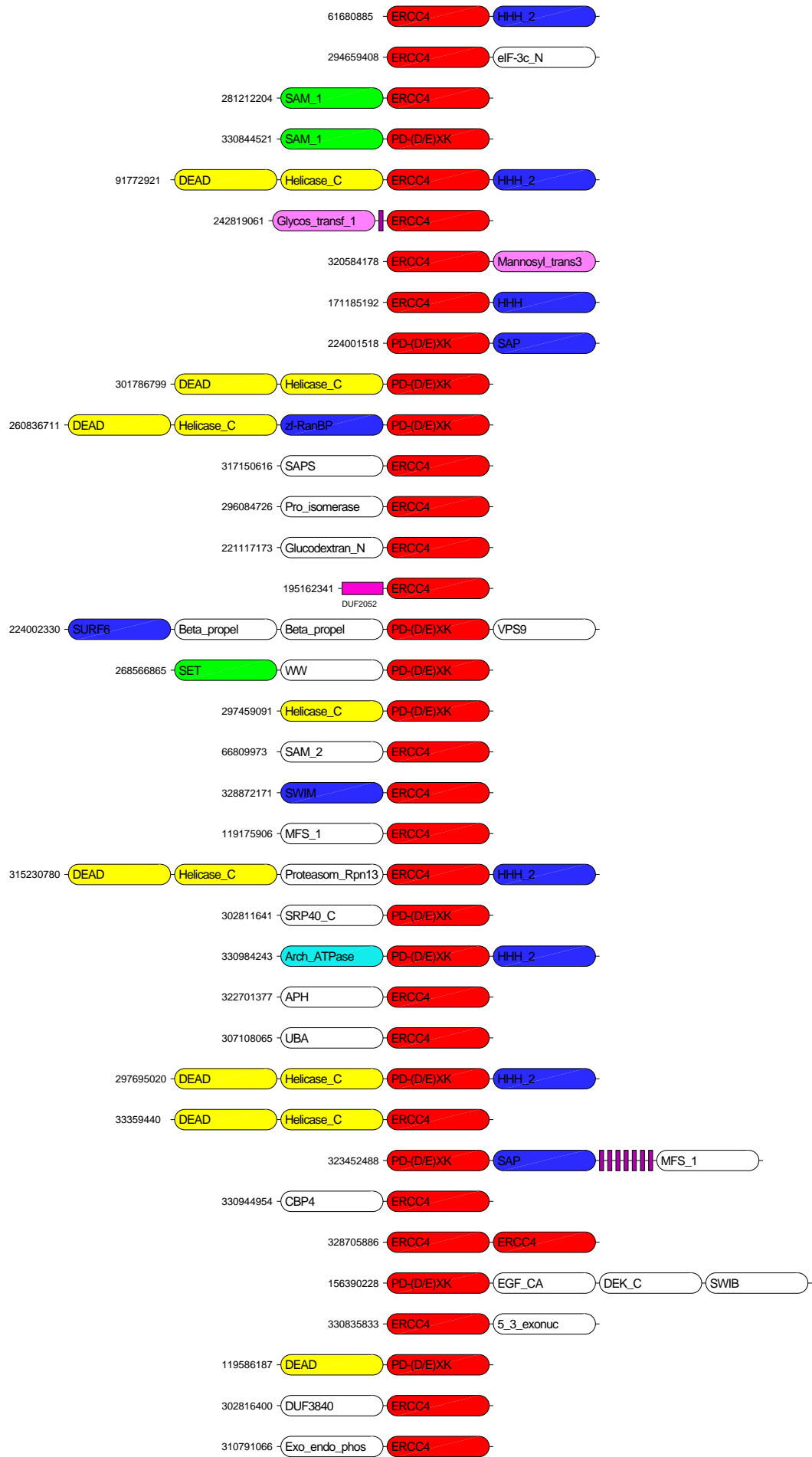






Group 51





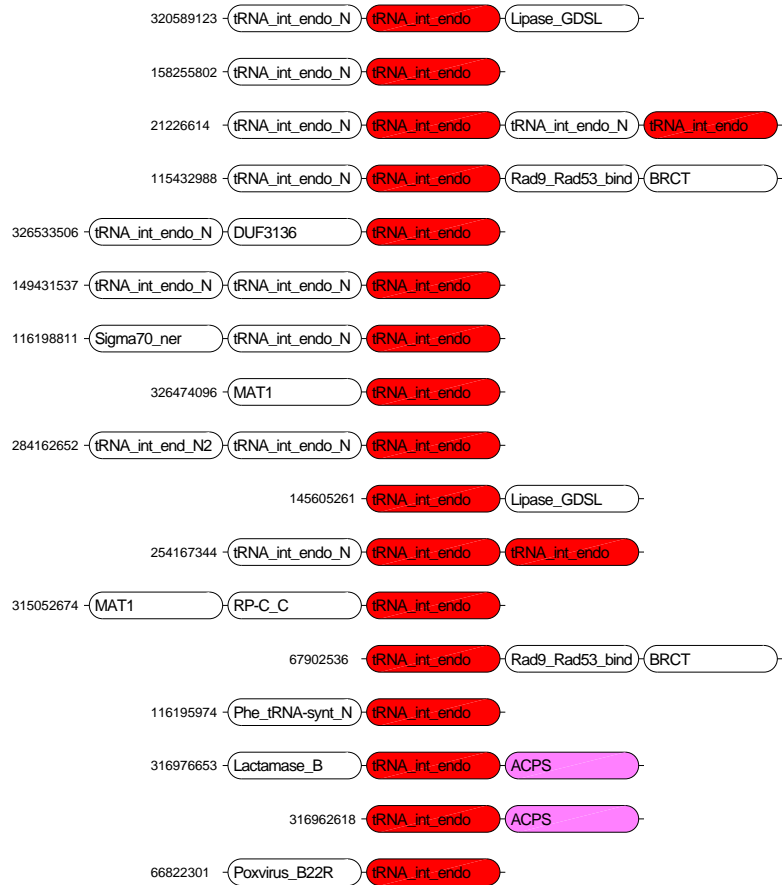
Group 53

309775703

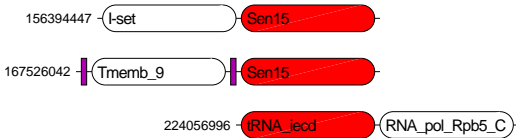


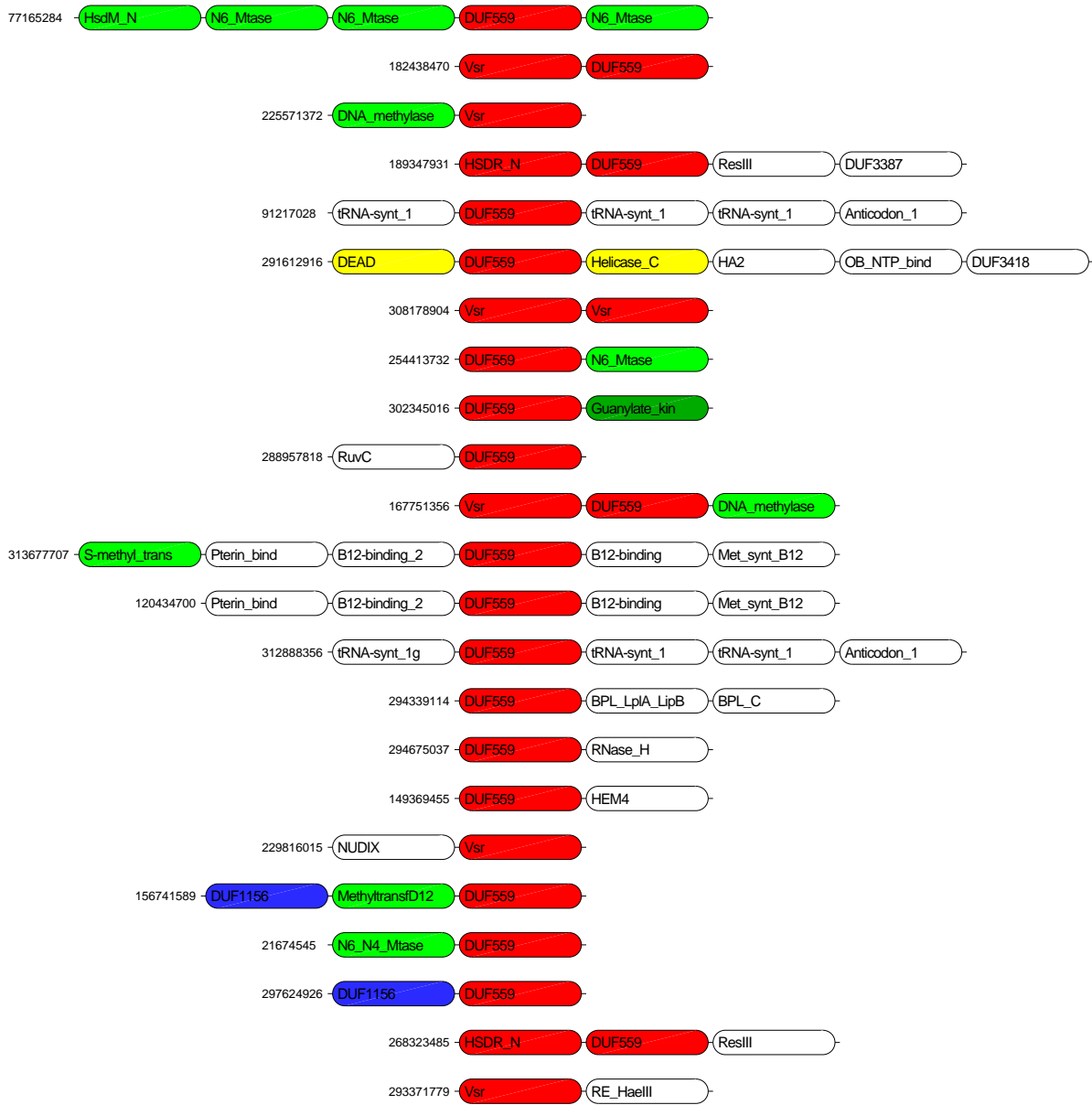
Group 54





Group 56





Group 59

71734882 - Tn7_Tnp_TnsA_N - Tn7_Tnp_TnsA_C

186473763 - PD-(D/E)XK - Tn7_Tnp_TnsA_C

323516280 - Tn7_Tnp_TnsA_N - Mg_chelatase

126651702 - Tn7_Tnp_TnsA_N - DUF742

Group 60



148360825 - PD-(D/E)XK - cobW

108800933 - PD-(D/E)XK - DUF699

323451003 - PD-(D/E)XK - Viral_helicase1

14520327 - PDDEXK_1 - DEAD

218247654 - PD-(D/E)XK - DUF2779

86740240 - PD-(D/E)XK - IstB_IS21 - Viral_helicase1

15608391 - PDDEXK_1 - DUF699

33601805 - Cas_Cas4 - Viral_helicase1

166367568 - Cas_Cas4 - DUF2779

284992098 - PD-(D/E)XK - ArgK

149186592 - PDDEXK_1 - Viral_helicase1

124514576 - PD-(D/E)XK - DUF2075

119964334 - PDDEXK_1 - ResIII

254168017 - DUF3784 ||| Cas_Cas4

297561136 - PDDEXK_1 - IstB_IS21 - Viral_helicase1

134101555 - PDDEXK_1 - PIF1 - Viral_helicase1

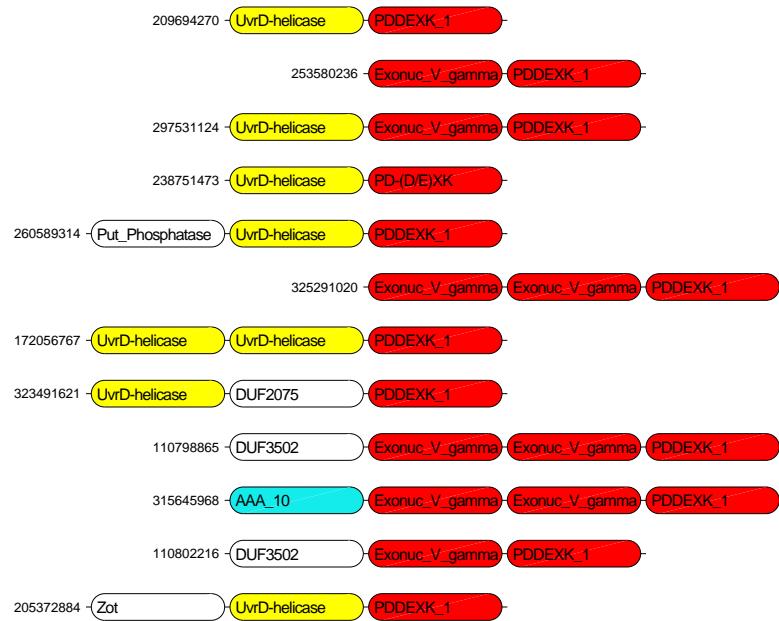
256833664 - PDDEXK_1 - ArgK - Viral_helicase1

149173160 - PD-(D/E)XK - DUF699 - M16C_assoc

15642881 - Cas_Cas4 - DNA_pol_lambd_f

14590057 - Cas_Cas4 - DUF699

260061160 - PD-(D/E)XK - Viral_helicase1 - Viral_helicase1



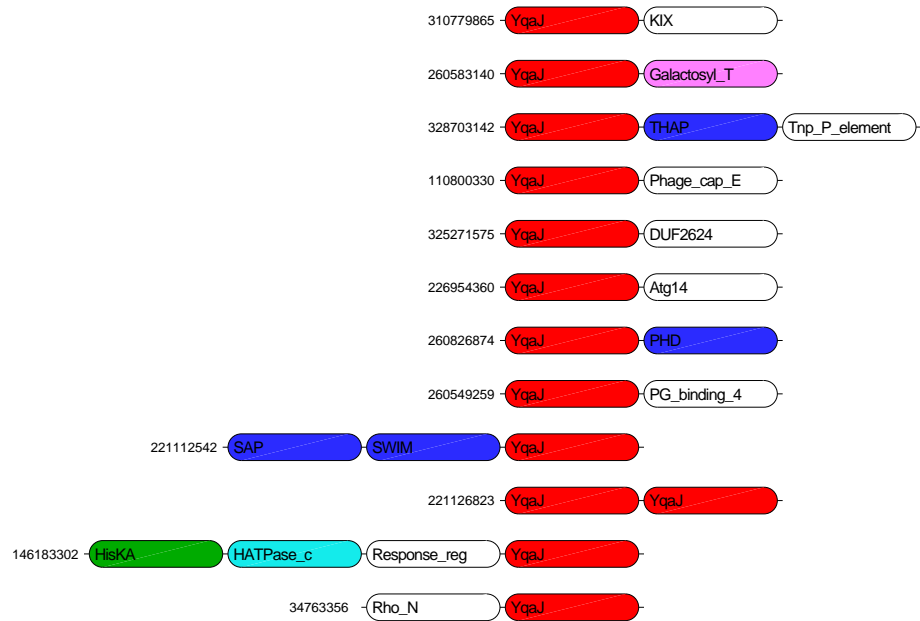
Group 64

148368938

Herpes_alk_exo

BIR





Group 66



Group 67

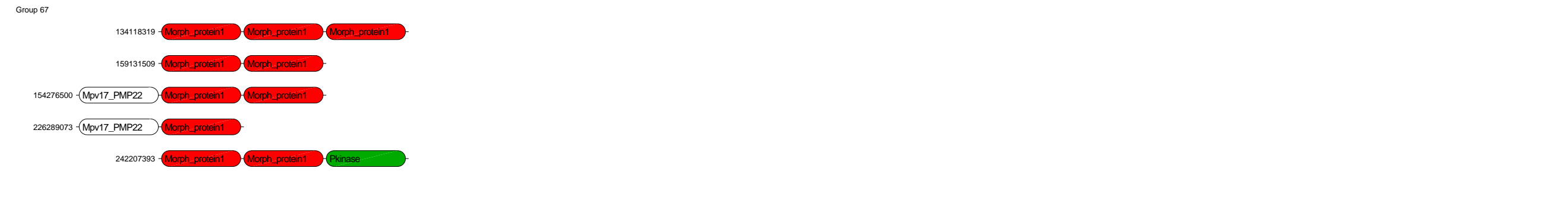
134118319 - Morph_protein1 - Morph_protein1 - Morph_protein1

159131509 - Morph_protein1 - Morph_protein1

154276500 - Mpv17_PMP22 - Morph_protein1 - Morph_protein1

226289073 - Mpv17_PMP22 - Morph_protein1

242207393 - Morph_protein1 - Morph_protein1 - Pkinase

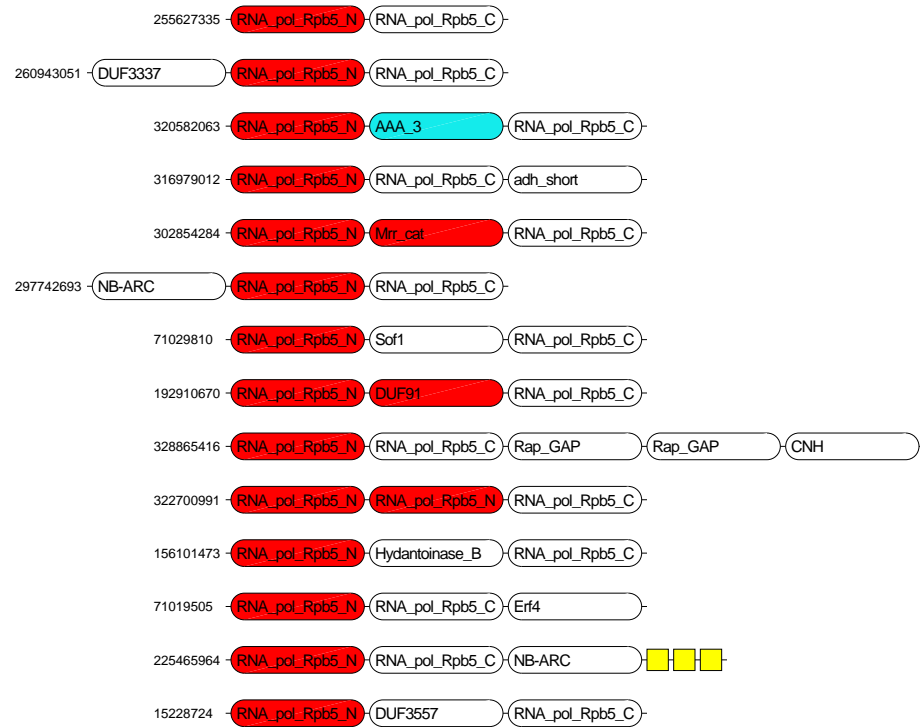


Group 68

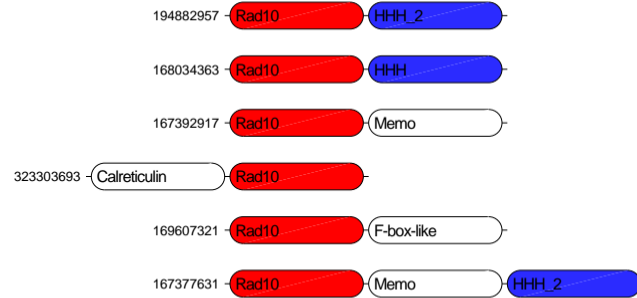


Group 71





Group 72



Group 73

90307977

PD-(D/E)XK

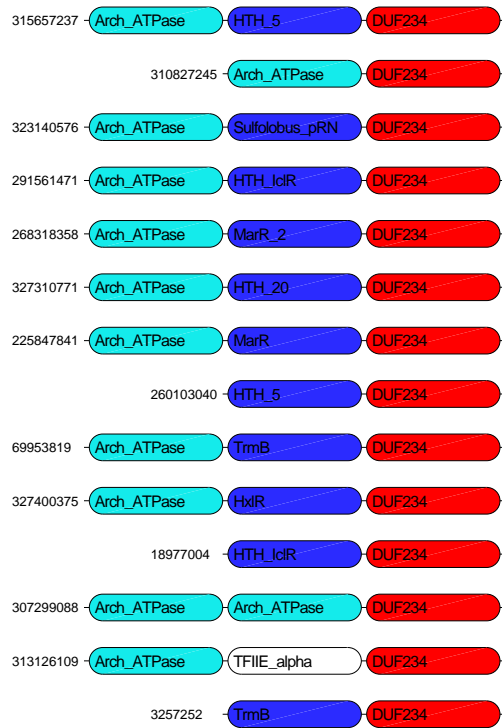
Bunya_RdRp

Group 75

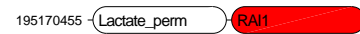
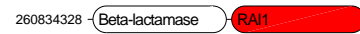
38639810



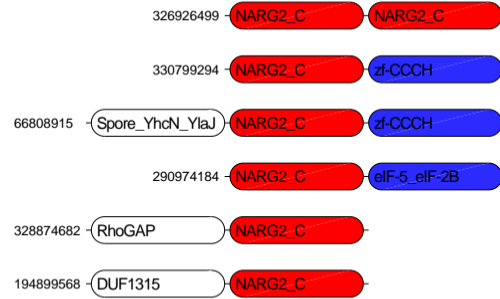
Group 76

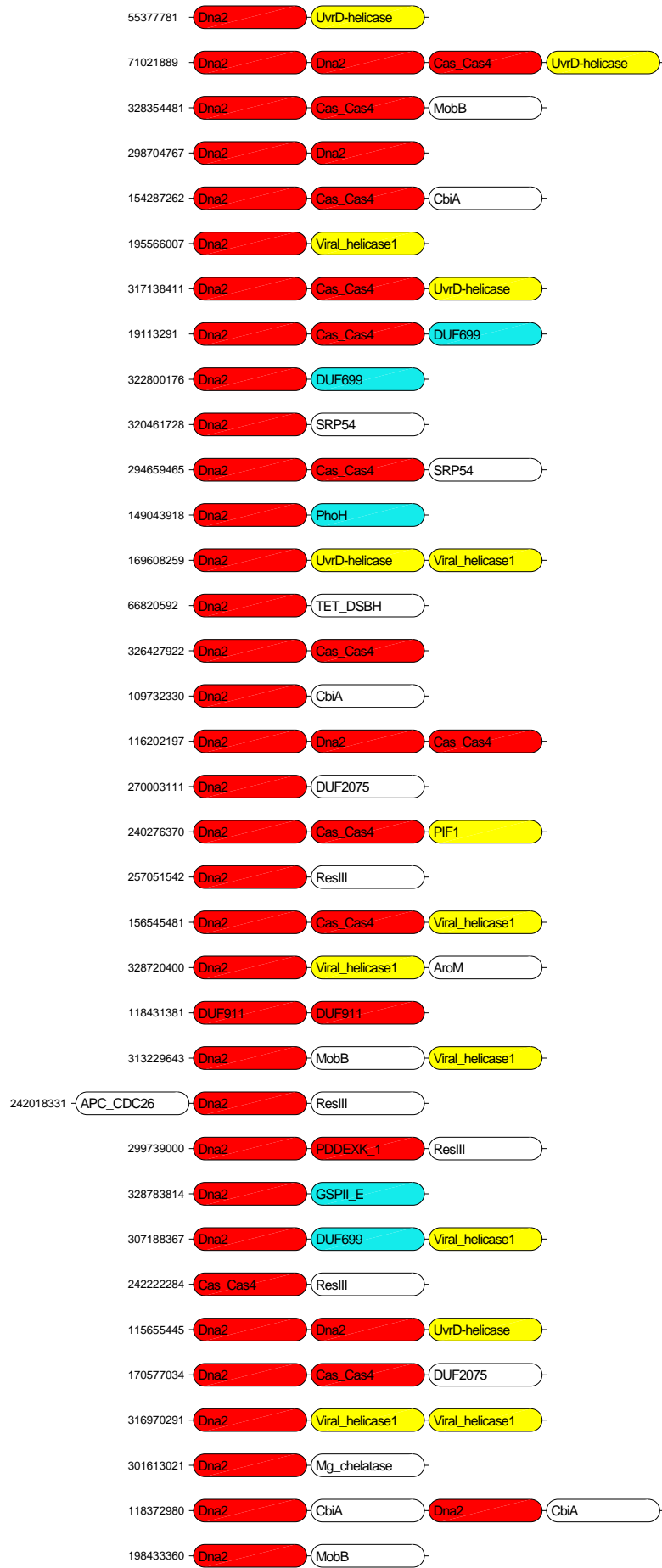


Group 77



Group 78





Group 80

327412699 - **Transposase_31** - Yae1_N

253989884 - **Transposase_31** - DUF2802

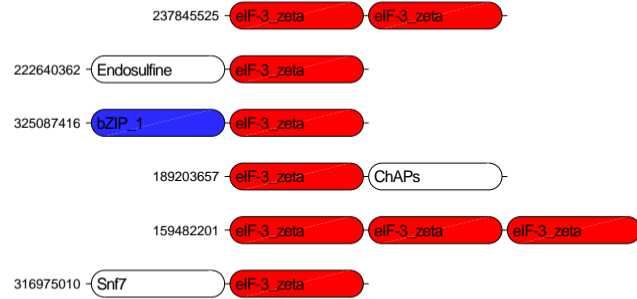
Group 82



Group 83



Group 84



Group 85

332180348 Endonuc_Holl

207258123 UPF0560 Endonuc_Holl

220907465 Endonuc_Holl



Group 86

313115743 - DUF1064 - Tn7_Tnp_TnsA_N

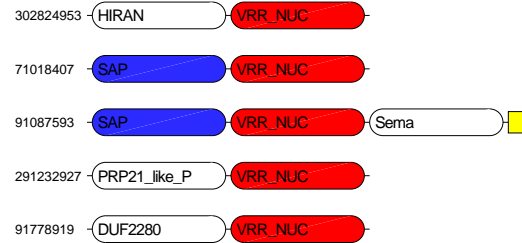
330430971 - NUMOD3 - PD-(D/E)XK






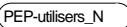

216906008 - Dicty_CAD - DUF1064

Group 87



Group 88



212710324  RmuC154175087  IncA  RmuC94501720  Myosin_tail_1  RmuC15596228   AKNA  RmuC163755375  DUF3186  RmuC238763676  DUF1043  RmuC329298141  Tropomyosin_1  RmuC107100475  AKNA  RmuC86133626  IncA  Bacillus_HBL  RmuC313204378  DUF1664  RmuC311281490  Prefoldin_2  RmuC157368496  PEP-utilisers_N  RmuC312962312   RmuC254464977  TelA  RmuC119476724  DUF1049  RmuC

Group 90



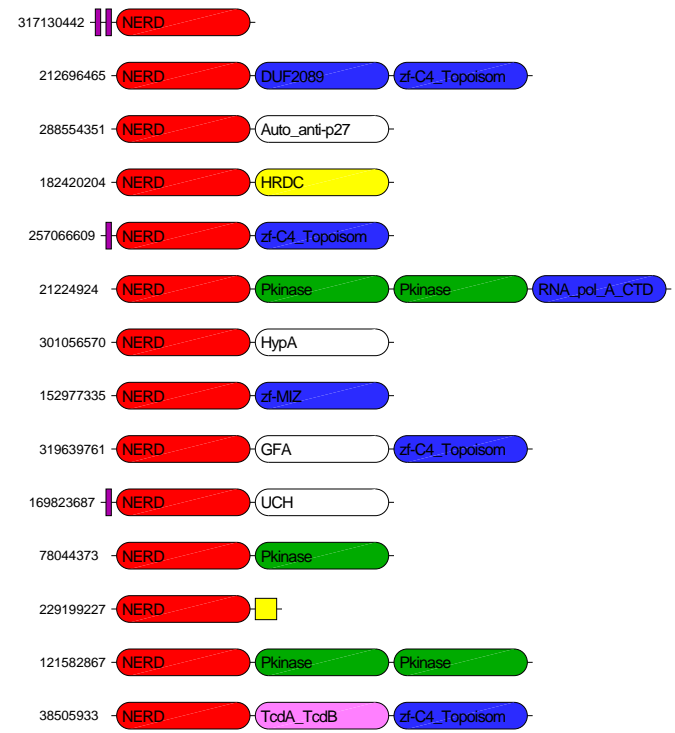
Group 91

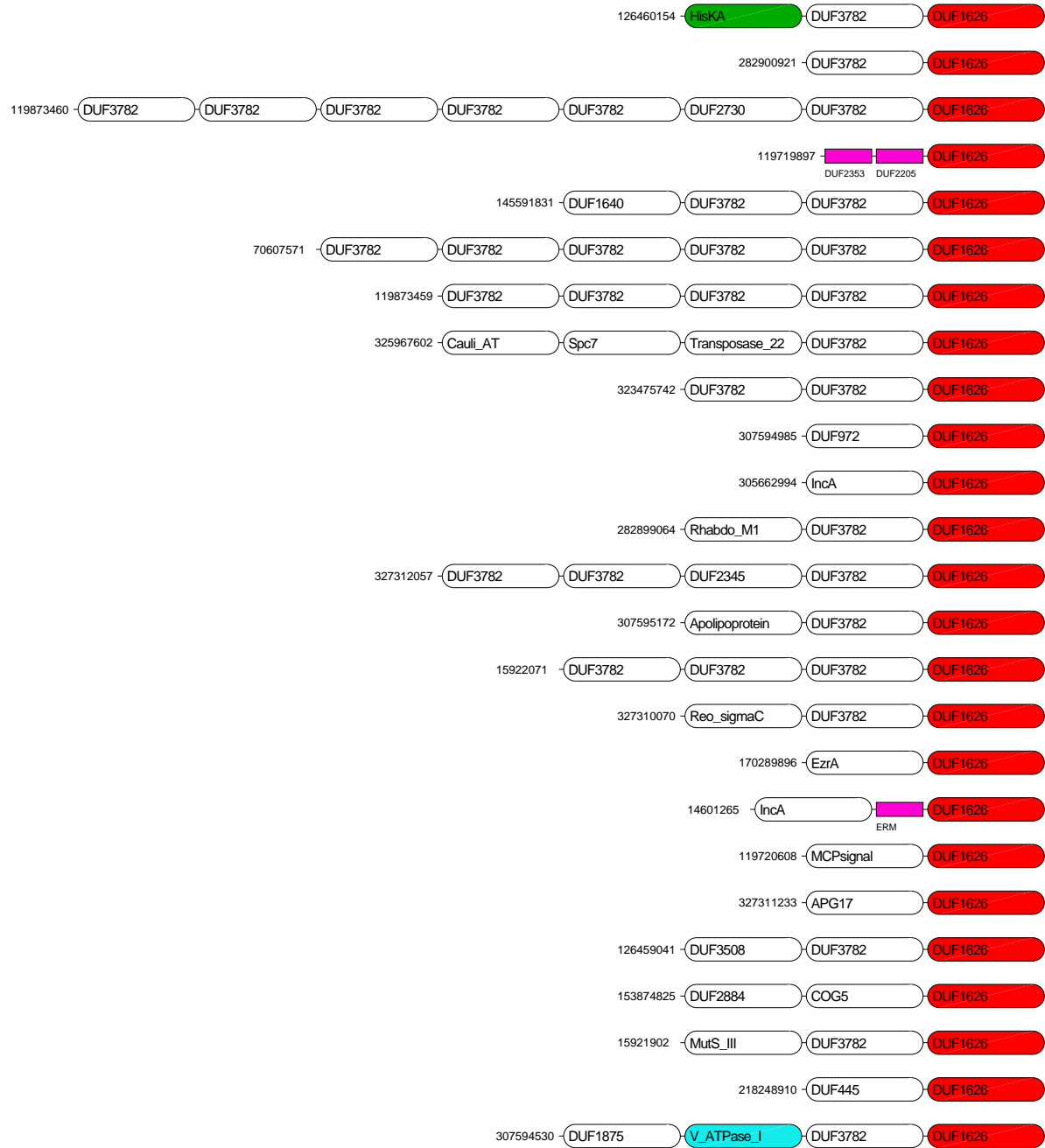


Group 93

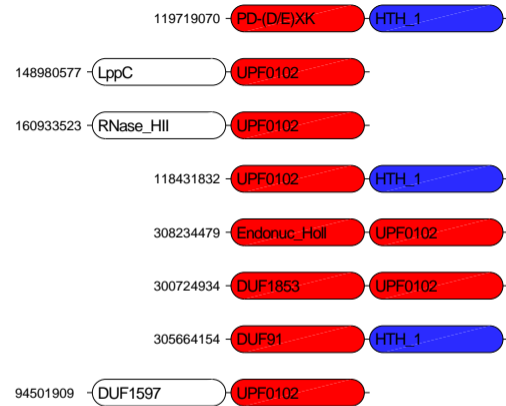


Group 94

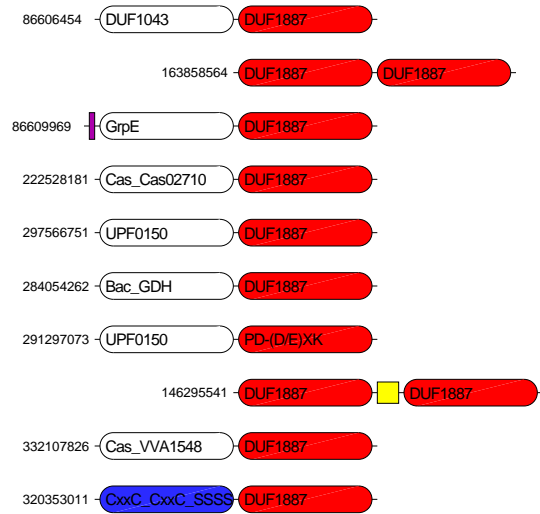




Group 96



Group 97



Group 98

150004014



255589015



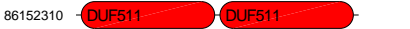
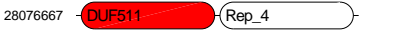
Group 99

294644187 - AAA-ATPase_like - DUF1703

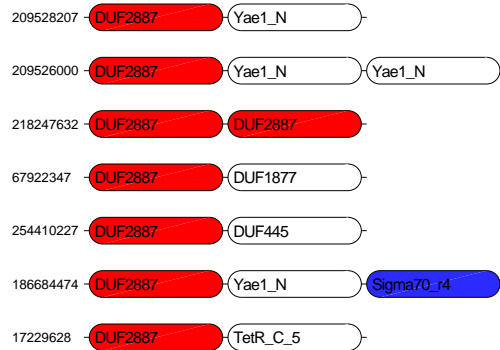


291456986	IslB_IS21	PD-(D/E)XX	
262408381	Arch_ATPase	NERD	
340774202	HTH_11	PD-(D/E)XX	
46255280	HTH_IclR	PD-(D/E)XX	
337280939	CPT	PD-(D/E)XX	
319641620		PD-(D/E)XX	
331000304	GntR	NERD	
94263487	RuvB_N	PD-(D/E)XX	
298253140		NERD	
225159303	Arch_ATPase	HTH_IclR	PD-(D/E)XX
254169052	Arch_ATPase	DUF2551	PD-(D/E)XX
111222751	UPF0079	PD-(D/E)XX	
269216046	CobA_CobO_BtuR	PD-(D/E)XX	
71483575	MarR	PD-(D/E)XX	
306819344	UPF0027	PD-(D/E)XX	
237722584	Miro	PD-(D/E)XX	
294992977	DUF746	PD-(D/E)XX	
84497119	CoaE	PD-(D/E)XX	
89897607	Rad17	PD-(D/E)XX	
350562704	GntR	PD-(D/E)XX	
297569375	SKI	PD-(D/E)XX	
346314689	HTH_11	NERD	
260060811	Arch_ATPase	HTH_20	PD-(D/E)XX
78188487	AAA	NERD	
284005884	AAA	HTH_5	PD-(D/E)XX
241518216	AAA_10	PD-(D/E)XX	
126179441	MobB	PD-(D/E)XX	
222055234	AAA	HTH_20	PD-(D/E)XX
355575581	GSPII_E	PD-(D/E)XX	
255505504	HTH_DeoR	PD-(D/E)XX	
357972110	HTH_5	PD-(D/E)XX	
84503326	MarR_2	PD-(D/E)XX	
357040162	Str_synth	PD-(D/E)XX	
223984053	Sigma70_r4_2	PD-(D/E)XX	
261415699	Arch_ATPase	DUF1864	PD-(D/E)XX
158317994	DUF927	PD-(D/E)XX	
339501487	Arch_ATPase	MarR_2	PD-(D/E)XX
312890453	AAA	DUF234	PD-(D/E)XX
298529930	HTH_20	PD-(D/E)XX	
212716736	Arch_ATPase	UPF102	PD-(D/E)XX
303258354	HTH_5	NERD	
255280990	SRPRB	PD-(D/E)XX	
91785924	MarR_2	PD-(D/E)XX	
325980846	RuvB_N	HTH_11	PD-(D/E)XX
281422827	Arch_ATPase	RE_SinI	PD-(D/E)XX
340347198	DUF258	PD-(D/E)XX	
121605995	RuvB_N	MarR_2	PD-(D/E)XX
358065362	Arch_ATPase	HTH_5	PD-(D/E)XX
310657523	Arch_ATPase	PD-(D/E)XX	
222444700	Arch_ATPase	FUR	PD-(D/E)XX
18312512	AAA	PD-(D/E)XX	
298385866	Bac_DnaA	PD-(D/E)XX	
328948835	FUR	PD-(D/E)XX	
301061830	Arch_ATPase	PD-(D/E)XX	
332158629	Arch_ATPase	HTH_WhiA	PD-(D/E)XX
317482609	NTPase_1	PD-(D/E)XX	
240947913	Arch_ATPase	HTH_11	PD-(D/E)XX
148643855	Arch_ATPase	Trans_reg_C	PD-(D/E)XX

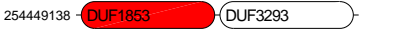
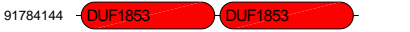
Group 101



Group 102



Group 104



293332207 Myf5 DUF506

302815844 DUF506 MoCF_biosynth

159488984 DNA_ligase_A_N DNA_ligase_A_M DUF506

302834800 DUF506 DUF506

159482504 zf-DHHC DUF506 DUF506 Glyoxal_oxid_N BACK

307110184 Use1 AfIR Use1 DUF506

159474936 Chlorophyllase2 DUF506

297728309 DUF3186 DUF506

Group 107

56751411 - DAO

DUF820

166032044 - HTH_3

DUF820

261407707 - PhdYeFM

DUF820

89893666 - HTH_17

DUF820



Group 109

288905366 - UPF0547 - DUF2130

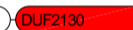
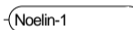
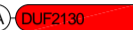
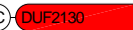
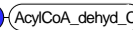
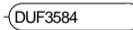
262282384 - TMF_TATA_bd - DUF2130

313886837 - DUF3584 - DUF2130

294786547 - UPF0547 - AcylCoA_dehyd_C - DUF2130

255020641 - Pinin_SDK_memA - DUF2130

190571763 - Noelin-1 - DUF2130



254518160 - DUF2075 - DUF2726

254507997 - DUF2726 - zf-GRF

257487181 - DUF2075 - Viral_helicase1 - DUF2726

293375522 - DUF2726 - zf-C4_Topoiso

237752148 - Viral_helicase1 - DUF2726

255690839 - DUF2075 - Viral_helicase1 - Viral_helicase1 - DUF2726

251779078 - ResIII - DUF2726

229021089 - DUF2726 - DUF721

157412147 - DUF2726

288802689 - UvrD-helicase - Viral_helicase1 - DUF2726

331007454 - DUF2648 - DUF2726

156974466 - DUF843 - DUF2726 - zf-C4_Topoiso

60680653 - ResIII - Viral_helicase1 - Viral_helicase1 - DUF2726

281344324 - FAST_1 - FAST_2 - RAP

323450957 - RAP - SAP

242056075 - Pox_Ag35 - RAP

196000781 - FAST_1 - FAST_1 - FAST_2 - RAP

154250035 - IstB_IS21 - RAP

308806908 - Ribosomal_L31 - RAP

195996645 - FAST_1 - RAP

119628500 - FAST_2 - RAP

323447941 - Ins145_P3_rec - RYDR_ITPR - efhand - lon_trans - RAP - Cellulase

307105016 - RAP - Cyclin_C

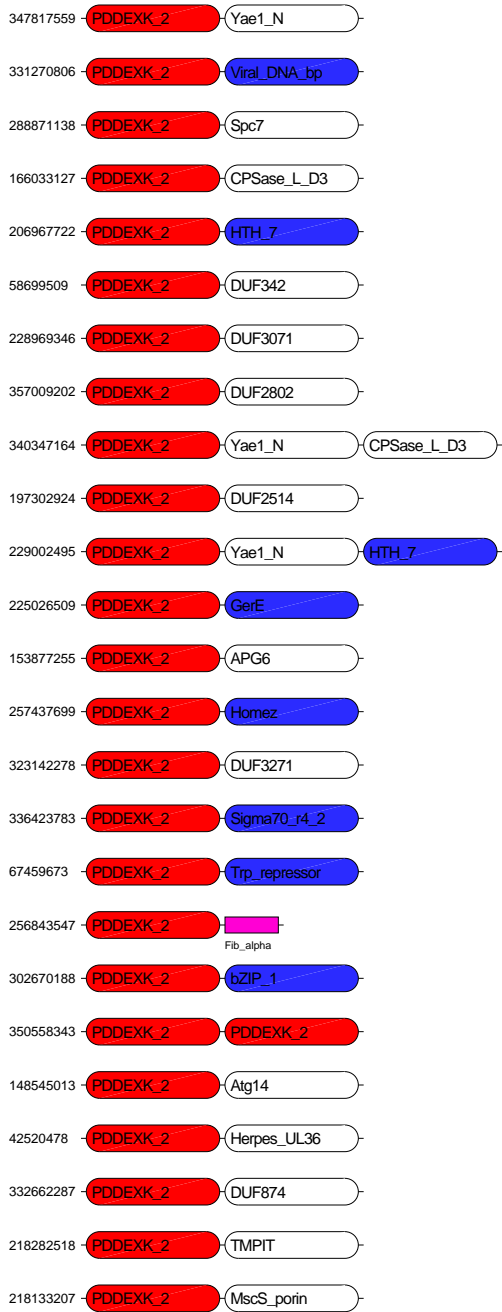
302832295 - FAST_1 - FAST_1 - RAP

156089331 - RAP - MMtag

307109857 - FAST_1 - RAP - SAP

323450314 - FAST_1 - RAP - Methyltransf_6

Group 113



Group 114



Group 115

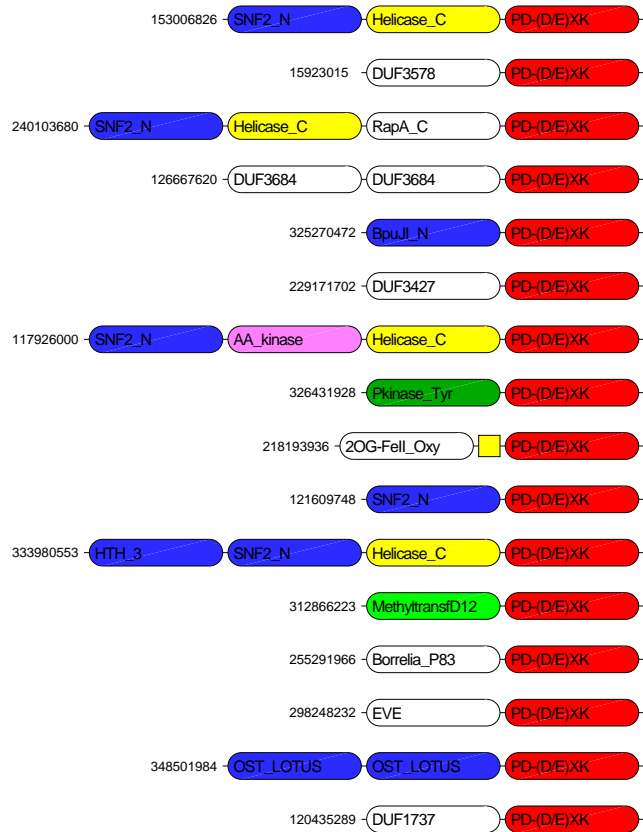


Group 116

332288284 - HATPase_c PD-(D/E)XK

346308628 - HATPase_c DUF91

162453759 - Response_reg PD-(D/E)XK



Group 119



Group 121

