RELAX Combined Report

### SRV vs SRV+Double vs SRV+Double+Triple
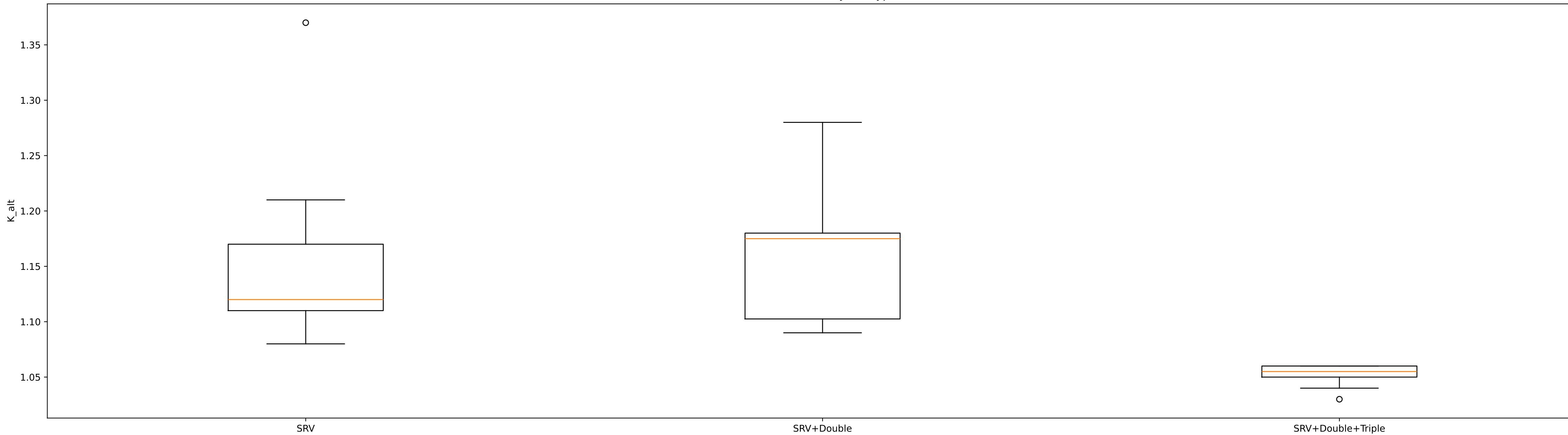
Includes:

- Run-type summary

- Boxplots: K, p-values, 2H/3H

- Full omega/SRV/multihit tables (column-paged)
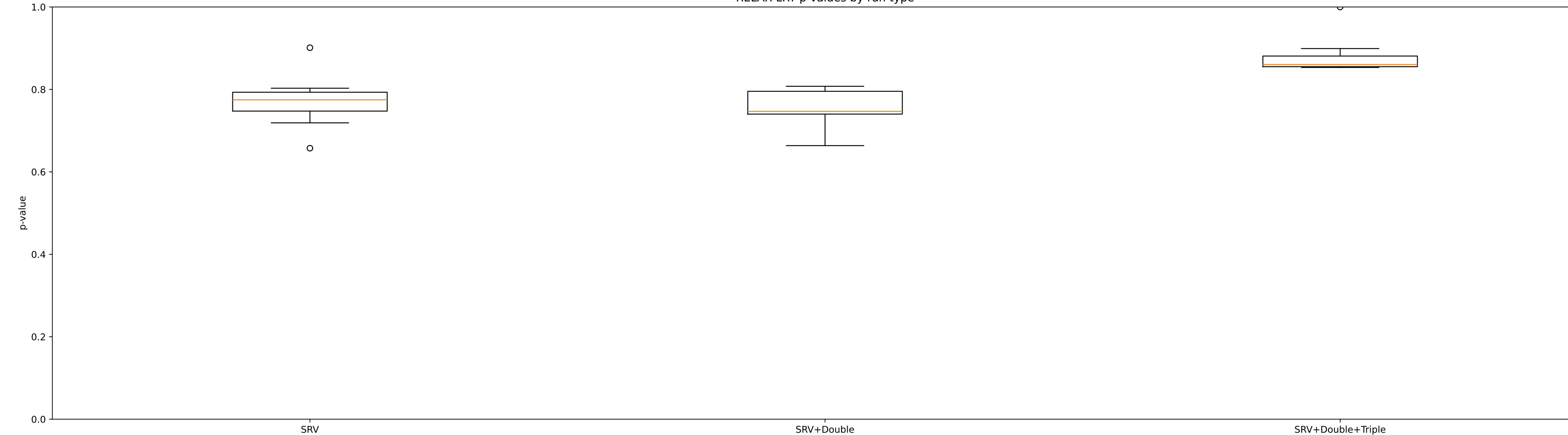
Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
0.7748	0.6574	0.9012	1.12	1.08	1.37	0.2308	0.1969	9	nan	nan
0.7468	0.6637	0.8076	1.175	1.09	1.28	0.2308	0.1969	10	0.0175	0.0
0.8604	0.8533	1.0	1.055	1.03	1.06	0.2308	0.1969	10	0.0	0.0
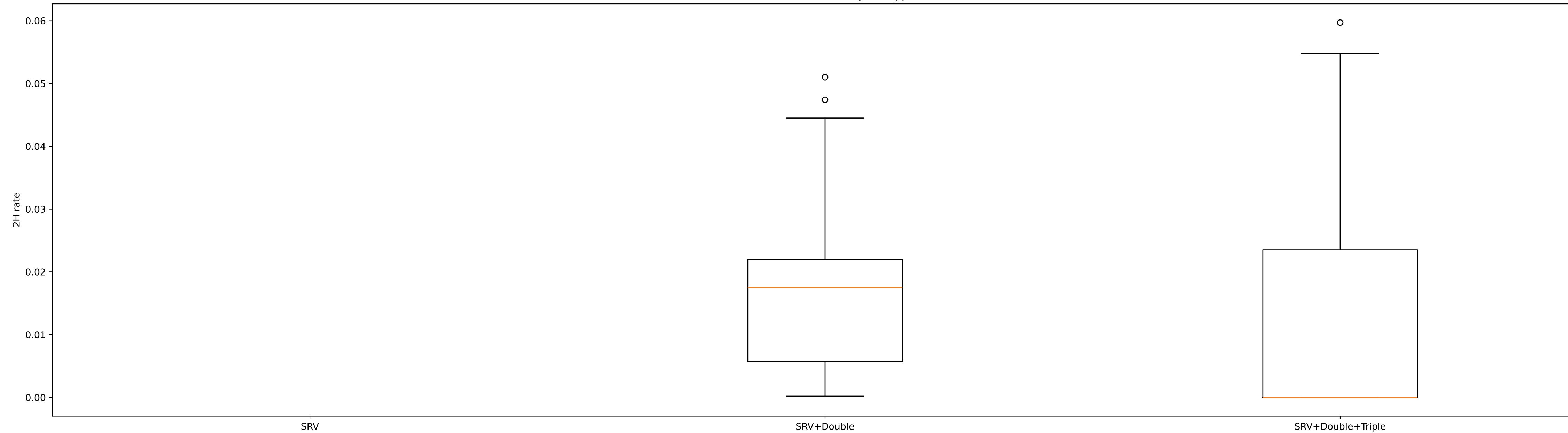
K (alternative) by run type

RELAX LRT p-values by run type
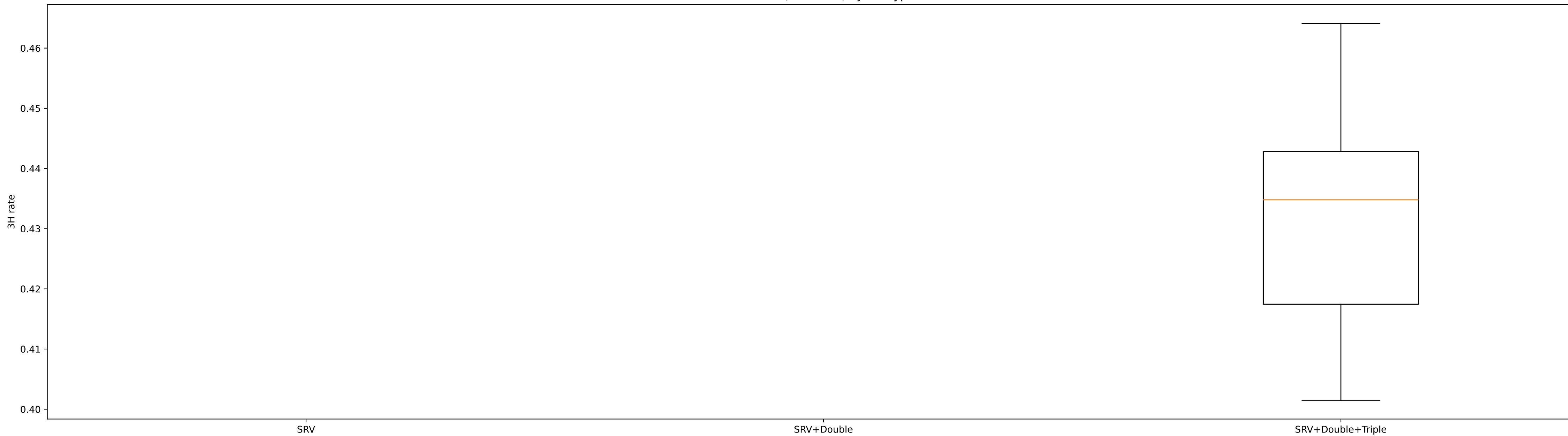
2H rates (reference) by run type

2H rates (test) by run type

3H rates (reference) by run type

3H rates (test) by run type

3H rate

SRV　　　　　　　　　SRV+Double　　　　　　　　　SRV+Double+Triple

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.7932	1.1	0.2308	0.1969	
	2	0.7189	1.21	0.2308	0.1969	
	3	0.9012	1.08	0.2308	0.1969	
	4	0.7794	1.12	0.2308	0.1969	
	5	0.7519	1.15	0.2308	0.1969	
	6	0.7474	1.17	0.2308	0.1969	
	7	nan	nan	0.2308	0.1969	
	8	0.8029	1.11	0.2308	0.1969	
	9	0.7748	1.12	0.2308	0.1969	
	10	0.6574	1.37	0.2308	0.1969	

replicate	global_dNdS_test	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1		0.7449	1.18	0.2308	0.1969	
2		0.8076	1.09	0.2308	0.1969	
3		0.7982	1.1	0.2308	0.1969	
4		0.7438	1.18	0.2308	0.1969	
5		0.6637	1.28	0.2308	0.1969	
6		0.7999	1.1	0.2308	0.1969	
7		0.7319	1.19	0.2308	0.1969	
8		0.739	1.18	0.2308	0.1969	
9		0.7486	1.17	0.2308	0.1969	
10		0.7871	1.11	0.2308	0.1969	

	replicate	global_dNdS_reference	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1		1.0	1.03	0.2308	0.1969	
	2		0.8563	1.06	0.2308	0.1969	
	3		0.854	1.06	0.2308	0.1969	
	4		0.8991	1.05	0.2308	0.1969	
	5		0.8533	1.06	0.2308	0.1969	
	6		0.8548	1.06	0.2308	0.1969	
	7		0.8592	1.06	0.2308	0.1969	
	8		0.8615	1.05	0.2308	0.1969	
	9		0.8859	1.04	0.2308	0.1969	
	10		0.8663	1.05	0.2308	0.1969	

Ω-class distributions (all) (cols 1-7/7)

test	Negative selection	0.247	42.943	SRV+Double	
test	Neutral evolution	1.0	13.293	SRV+Double	
reference	Negative selection	0.0	57.525	SRV+Double	
reference	Negative selection	0.457	33.661	SRV+Double	
reference	Neutral evolution	1.0	8.814	SRV+Double	
test	Negative selection	0.0	57.525	SRV+Double	
test	Negative selection	0.366	33.661	SRV+Double	
test	Negative selection	0.0	57.525	SRV+Double	
test	Negative selection	0.457	33.661	SRV+Double	
test	Neutral evolution	1.0	8.814	SRV+Double	
test	Neutral evolution	1.0	8.814	SRV+Double	
reference	Negative selection	0.001	57.726	SRV+Double	
reference	Negative selection	0.452	33.649	SRV+Double	
reference	Neutral evolution	1.0	8.625	SRV+Double	
test	Negative selection	0.001	57.726	SRV+Double	
test	Negative selection	0.452	33.649	SRV+Double	
test	Neutral evolution	1.0	8.625	SRV+Double	
reference	Diversifying selection	1.004	12.733	SRV+Double	
reference	Negative selection	0.101	84.289	SRV+Double	
reference	Negative selection	0.928	2.978	SRV+Double	
test	Diversifying selection	1.004	12.733	SRV+Double	
test	Diversifying selection	1.004	12.733	SRV+Double	
test	Negative selection	0.08	84.289	SRV+Double	
test	Negative selection	0.921	2.978	SRV+Double	
test	Negative selection	0.101	84.289	SRV+Double	
test	Negative selection	0.928	2.978	SRV+Double	
reference	Negative selection	0.099	84.213	SRV+Double	
reference	Negative selection	0.923	3.057	SRV+Double	
reference	Neutral evolution	1.0	12.731	SRV+Double	
test	Negative selection	0.099	84.213	SRV+Double	
test	Negative selection	0.923	3.057	SRV+Double	
test	Neutral evolution	1.0	12.731	SRV+Double	
reference	Negative selection	0.0	47.349	SRV+Double	
reference	Negative selection	0.278	39.426	SRV+Double	
reference	Neutral evolution	1.0	13.225	SRV+Double	
test	Negative selection	0.0	47.349	SRV+Double	
test	Negative selection	0.218	39.426	SRV+Double	
test	Negative selection	0.0	47.349	SRV+Double	
test	Negative selection	0.278	39.426	SRV+Double	
test	Neutral evolution	1.0	13.225	SRV+Double	
test	Neutral evolution	1.0	13.225	SRV+Double	
reference	Negative selection	0.001	47.309	SRV+Double	
reference	Negative selection	0.278	39.895	SRV+Double	
reference	Neutral evolution	1.0	12.795	SRV+Double	
test	Negative selection	0.001	47.309	SRV+Double	
test	Negative selection	0.278	39.895	SRV+Double	
test	Neutral evolution	1.0	12.795	SRV+Double	
reference	Negative selection	0.2	45.36	SRV+Double	
reference	Negative selection	0.26	41.218	SRV+Double	

class_id	syn_rate	proportion_percent	run_type
1	0.0	7.444	SRV
2	1.08	92.556	SRV
3	1.129	0.0	SRV
1	0.0	7.375	SRV
2	1.08	3.375	SRV
3	1.08	89.25	SRV
1	0.0	0.318	SRV
2	0.0	7.111	SRV
3	1.08	92.571	SRV
1	0.0	3.461	SRV
2	0.0	3.967	SRV
3	1.08	92.571	SRV
1	0.0	0.616	SRV
2	0.0	6.773	SRV
3	1.08	92.611	SRV
1	0.0	7.372	SRV
2	1.08	16.8	SRV
3	1.08	75.828	SRV
1	0.0	7.431	SRV
2	1.08	83.093	SRV
3	1.08	9.477	SRV
1	0.0	7.426	SRV
2	1.02	0.0	SRV
3	1.08	92.574	SRV
1	0.0	7.348	SRV
2	1.079	92.652	SRV
3	1.113	0.0	SRV

reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4278	SRV+Double+Triple		
reference	3H	0.4353	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4342	SRV+Double+Triple		
reference	3H	0.434	SRV+Double+Triple		
reference	3H	0.4329	SRV+Double+Triple		
reference	3H	0.4015	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0238	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4194	SRV+Double+Triple		
reference	3H	0.4343	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4387	SRV+Double+Triple		
reference	3H	0.4136	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0227	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4197	SRV+Double+Triple		
reference	3H	0.4358	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4429	SRV+Double+Triple		
reference	3H	0.4116	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0548	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4491	SRV+Double+Triple		
reference	3H	0.448	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4507	SRV+Double+Triple		
reference	3H	0.4144	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0317	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.4265	SRV+Double+Triple		
reference	3H	0.4386	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		