

Method S1

list of the 25 gi identifiers of the sequences in the alignment

origin	gi	database			
H sapiens	33356172	refseq			
P troglodytes	55630956	refseq			
P pygmaeus	55724995	emb			
C familiaris	73999569	refseq			
B taurus	76634945	refseq			
R norvegicus	20302036	refseq			
M musculus	31980742	refseq			
G gallus	82174220	sp			
X laevis	82239394	sp			
D rerio	82125839	sp			
D pseudoobscu	54640867	emb			
D melanogaste	24661872	refseq			
A nidulans	49092096	refseq			
P anserina	27764306	emb			
N crassa	32410847	refseq			
G zeae	46135723	refseq			
K yarrowii	30350868	gb			
E gossypii	45191003	refseq			
K lactis	50308093	refseq			
Y lipolytica	50551973	refseq			
C glabrata	50284923	refseq			
S cerevisiae	465488	sp			
					ID/S.c.Xrs2
S bayanus	contig_452	Sac.Comp.db	frame-1	6596-5876	ID:54%
S mikatae	contig_358	Sac.Comp.Db	frame+2	3863-4600	ID:61%
S paradoxus	contig_228	Sac.Comp.db	frame-3	10673-9936	ID:73%