

bicodon	Low PA	High PA
AAAAAA	460	132
AAAAAG	389	198
AAGAAA	494	401
AAGAAG	276	766

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bicodon	Low PA	High PA
AAGAAG	276	766
others	1343	731

	Low PA	High PA
bicodon	a	b
others	c	d

$$p\text{-value} = \frac{(a+b)! (c+d)! (a+c)! (b+d)!}{(a+b+c+d)! a! c! b! d!}$$