

(A) AUG ORF2 AUG ORFX

Human astroviruses:

Z25771	AGUGUG	AUG	GCU	AGC	AAG	UCC	AAC	AAG	CAA	GUA	ACU	GUU	GAG	GUC	---	---	AGU	AAU	AAU	GGC	HAstV-1
L13745	AGUGUG	AUG	GCU	AGC	AAG	UCU	GAC	AAG	CAA	GUC	ACU	GUU	GAG	GUC	---	---	AAU	AAC	AAU	GGC	HAstV-2
AF117209	AGUGCG	AUG	GCU	AGC	AAG	UCU	GAU	AAG	CAA	GUC	ACU	GUU	GAG	GUC	AAA	AAU	AAC	AAC	AAU	GGC	HAstV-3
DQ070852	AGUGUG	AUG	GCU	AGC	AAG	UCU	GAC	AAG	CAA	GUC	ACU	GUU	GAG	GUC	---	---	AAU	AAC	AAU	GGC	HAstV-4
DQ028633	AGUGUG	AUG	GCU	AGC	AAG	CCC	AGC	AAA	CAG	GUA	ACU	GUU	GAG	GUC	---	---	---	AAU	AAU	GGC	HAstV-5
GQ495608	AGUGUG	AUG	GCU	AGC	AAG	UCU	GAC	AAG	CAG	GUU	ACU	GUU	GAG	GUC	---	---	AAU	AAC	AAU	GGC	HAstV-6
AF248738	AGUGUG	AUG	GCU	AGU	AAG	UCU	GAU	AAG	CAA	GUU	ACU	GUU	GAG	GUC	---	AAU	AAC	AAC	AAU	GGC	HAstV-7
AF260508	AGUGUG	AUG	GCU	AGC	AAG	UCU	GAC	AAG	CAA	GUC	ACU	GUU	GAG	GUC	---	---	AAU	AAC	AAU	GGC	HAstV-8

Related non-human astroviruses:

EU650331	AUUGUA	AUG	GCU	AGC	AAG	CCU	GGC	AAA	GAA	GUG	ACU	GUG	GAG	GUC	AAU	AAC	ACC	AAU	GGC	CGA	cheetah 1
FJ890353	AGUGUG	AUG	GCU	AGC	AAG	UCU	GAC	AAG	AAA	GUA	ACU	GUU	GAG	GUC	AAG	UCC	AAU	GGA	AAU	GGC	sea lion 3
AB037272	AAAGUA	AUG	GCU	AGC	AAG	UCU	GGC	AAG	GAU	GUC	ACU	GUC	AAG	GUC	GAA	AAC	ACC	AAC	GGC	CGU	porcine
FM213330	AUUGCG	AUG	GCU	AGC	AAG	CCA	GGC	AAA	GAU	GUC	ACC	GUU	GAG	GUU	AAA	ACC	UCC	GGA	ACA	AAA	dog faeces
FJ890355	UUUGCA	AUG	GCU	AAC	GGC	CGU	AGC	AAA	GAU	GUU	AGC	GUU	GAG	GUU	AAA	GCC	UCC	GGC	UCA	CAG	dolphin 1
FJ890352	CGUGCG	AUG	GCU	AGU	GCU	UCU	GGC	AAA	AAU	GUC	ACU	GUC	GAG	GUC	AAG	AAC	ACC	GGA	UCU	CGC	sea lion 2

(B) Z25771 (nt 4419..4754) Human astrovirus HAstV-1

MAAAGVNQGP VHNLGAETNQ SRSQSIQETE PGDSPDATNV NLLNVSVTLS ISNSGNRVSQ DQNLQYVREQ QQPLGQSGQT
PVAPLRLRRV FSSTLSSLRT LLEALSLALC RR