

gen_sp	–	–	–	–	–	–	–	–	–	–	–	M	K	K	T	G	F	I	G	K	T	L	A	L	V	I	A	A	G	M	A	G	T	A	–	–	A	F	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp0	–	–	–	–	–	–	–	–	–	–	M	M	K	K	M	T	G	K	T	F	A	L	S	A	L	V	A	A	S	F	M	A	A	G	–	–	A	M	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp1	–	–	–	–	–	–	–	–	–	–	–	M	Q	K	K	R	I	G	K	S	V	V	A	A	L	A	I	I	A	M	S	A	G	T	V	A	A	W	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp2	–	–	–	–	–	–	–	–	–	–	–	–	–	M	T	T	I	V	K	R	A	L	V	A	A	G	M	V	L	A	I	G	G	A	–	–	A	Q	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp3	–	–	–	–	–	–	–	–	–	–	–	M	K	K	K	S	L	–	A	L	V	L	A	T	G	M	A	V	T	T	F	G	G	T	G	S	A	F	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp4	–	–	–	–	–	–	–	–	–	–	–	M	N	K	K	H	G	F	P	L	T	L	T	A	L	A	I	A	T	A	F	P	A	Y	–	A	A	Q	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp5	–	–	–	–	–	–	–	–	–	–	–	M	F	T	R	K	I	Q	K	T	A	L	–	A	M	L	I	S	G	A	M	A	G	T	–	–	A	Y	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp6	–	–	–	–	–	–	–	–	–	–	–	M	K	K	S	L	F	C	G	V	C	L	C	A	L	V	A	–	–	–	M	G	G	T	–	–	S	F	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp7	–	–	–	–	–	–	–	–	–	–	–	M	K	K	T	T	I	P	T	L	S	A	L	T	L	A	M	S	L	A	F	G	G	A	–	–	A	I	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp8	–	–	–	–	–	–	–	–	–	–	M	M	K	K	M	T	G	K	S	F	A	L	S	A	L	V	A	A	S	F	M	A	A	G	–	–	A	M	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
nat_sp9	M	K	V	K	K	T	Y	G	F	R	K	S	K	I	S	K	T	L	C	G	A	V	L	G	T	V	A	A	V	S	V	A	G	Q	K	–	–	V	F	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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