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K	K	K	K	K
T	T	T	T	T
K	K	K	K	K
E	E	E	E	E
E	E	E	E	E
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D	D	D	D	D
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D	D	D	D	D
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F	F	F	F	F
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T	T	T	T	T
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E	E	E	E	E
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G	G	G	G	G
S	S	S	S	S
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F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
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S	S	S	S	S
Y	Y	Y	Y	Y
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E	E	E	E	E
V	V	V	V	V
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D	D	D	D	D
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R	R	R	R	R
L	L	L	L	L
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K	K	K	K	K
V	V	V	V	V
I	I	I	I	I
M	M	M	M	M
A	A	A	A	A
V	V	V	V	V
D	D	D	D	D
I	I	I	I	I
Y	Y	Y	Y	Y
S	S	S	S	S
Y	Y	Y	Y	Y
G	G	G	G	G
G	G	G	G	G
E	E	E	E	E
V	V	V	V	V
L	L	L	L	L
L	L	L	L	L
A	A	A	A	A
G	G	G	G	G
S	S	S	S	S
A	A	A	A	A
D	D	D	D	D
F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
L	L	L	L	L
A	A	A	A	A
R	R	R	R	R
S	S	S	S	S
D	D	D	D	D
L	L	L	L	L
F	F	F	F	F
D	D	D	D	D
P	P	P	P	P
R	R	R	R	R
L	L	L	L	L
Q	Q	Q	Q	Q
A	A	A	A	A
K	K	K	K	K
V	V	V	V	V
I	I	I	I	I
M	M	M	M	M
A	A	A	A	A
V	V	V	V	V
D	D	D	D	D
I	I	I	I	I
Y	Y	Y	Y	Y
S	S	S	S	S
Y	Y	Y	Y	Y
G	G	G	G	G
G	G	G	G	G
E	E	E	E	E
V	V	V	V	V
L	L	L	L	L
L	L	L	L	L
A	A	A	A	A
G	G	G	G	G
S	S	S	S	S
A	A	A	A	A
D	D	D	D	D
F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
L	L	L	L	L
A	A	A	A	A
R	R	R	R	R
S	S	S	S	S
D	D	D	D	D
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F	F	F	F	F
D	D	D	D	D
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R	R	R	R	R
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Q	Q	Q	Q	Q
A	A	A	A	A
K	K	K	K	K
V	V	V	V	V
I	I	I	I	I
M	M	M	M	M
A	A	A	A	A
V	V	V	V	V
D	D	D	D	D
I	I	I	I	I
Y	Y	Y	Y	Y
S	S	S	S	S
Y	Y	Y	Y	Y
G	G	G	G	G
G	G	G	G	G
E	E	E	E	E
V	V	V	V	V
L	L	L	L	L
L	L	L	L	L
A	A	A	A	A
G	G	G	G	G
S	S	S	S	S
A	A	A	A	A
D	D	D	D	D
F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
L	L	L	L	L
A	A	A	A	A
R	R	R	R	R
S	S	S	S	S
D	D	D	D	D
L	L	L	L	L
F	F	F	F	F
D	D	D	D	D
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L	L	L	L	L
Q	Q	Q	Q	Q
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K	K	K	K	K
V	V	V	V	V
I	I	I	I	I
M	M	M	M	M
A	A	A	A	A
V	V	V	V	V
D	D	D	D	D
I	I	I	I	I
Y	Y	Y	Y	Y
S	S	S	S	S
Y	Y	Y	Y	Y
G	G	G	G	G
G	G	G	G	G
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V	V	V	V	V
L	L	L	L	L
L	L	L	L	L
A	A	A	A	A
G	G	G	G	G
S	S	S	S	S
A	A	A	A	A
D	D	D	D	D
F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
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R	R	R	R	R
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V	V	V	V	V
I	I	I	I	I
M	M	M	M	M
A	A	A	A	A
V	V	V	V	V
D	D	D	D	D
I	I	I	I	I
Y	Y	Y	Y	Y
S	S	S	S	S
Y	Y	Y	Y	Y
G	G	G	G	G
G	G	G	G	G
E	E	E	E	E
V	V	V	V	V
L	L	L	L	L
L	L	L	L	L
A	A	A	A	A
G	G	G	G	G
S	S	S	S	S
A	A	A	A	A
D	D	D	D	D
F	F	F	F	F
K	K	K	K	K
N	N	N	N	N
E	E	E	E	E
L	L	L	L	L
A	A	A	A	A
R	R	R	R	R
S	S	S	S	S
D	D	D	D	D
L	L	L	L	L
F	F	F	F	F
D	D	D	D	D
P	P	P	P	P
R	R	R	R	R
L	L	L	L	

QUERY	L	S	D	L	V	D	A	G	Q	A	A	L	A
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UniRef90_D3AYV1	F	N	Q	A	I	E	L	S	A	E	V	L	T
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