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QUERY	Q	H	C	A	D	C	Q	F	M	Q	A	D	A	G	A	T	D	E	W	K	G	C	Q	L	F	P	G	K	L	I	N	V	N	G	W	C	A	S	W			
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UniRef90_U3QG92	Q	K	C	G	N	C	Q	L	F	Y	Q	G	K	A				S	D	A	W	G	P	P	I	L	F	G	G	K	Q	V	N	S	A	K	G	W	C	A	S	W
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UniRef90_D5WNP4	Q	A	C	A	N	C	S	F	F	Y	Q	G	K	A	G	D	A	T				A	P	P	I	L	F	T	G	K	L	V	N	S	A	K	G	W	C	A	S	W
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UniRef90_I4VK05	D	V	C	H	N	C	Q	F	Y	T					A	T	N	T	T	G	R	G	P	Q	L	F	P	G	K	L	V	N	S	A	K	G	W					

QUERY	T	L	K	A	G
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UniRef90_W9VGH5	T	L	R	A	G
UniRef90_G2DWB0	T	L	R	A	G
UniRef90_U3QG92	V	K	K	A	
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UniRef90_UPI00036C391C	V	P	R	A	
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UniRef90_D5WNP4	V	K	K	A	
UniRef90_UPI00034A2833	T				
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UniRef90_UPI0004263350	L	K	A	G	
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UniRef90_UPI000475586F	A	K	K	A	
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UniRef90_B1XTE2	A	K	K	A	
UniRef90_UPI0003756F59	V	K	R	P	G
UniRef90_A2SHW3	A	K	K	A	
UniRef90_UPI00016A5E37	A	K	R	A	
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UniRef90_H1G584	V	A	R	S	
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UniRef90_UPI000376B823	V	A	Q		
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UniRef90_A0Z512	L	Q	K		
UniRef90_UPI00035D3A43	Q	A	R	A	
UniRef90_G4E1W6	V	P	Q		
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UniRef90_K5BQ12	S	Q	R		
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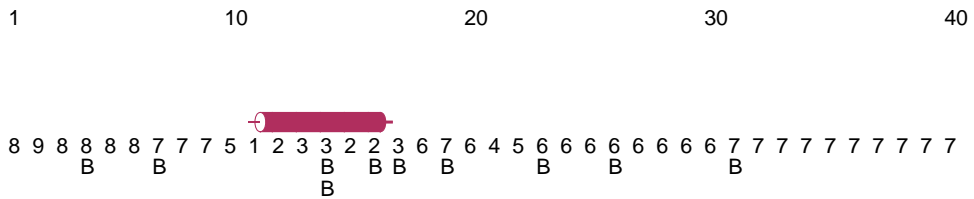
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UniRef90\_W6WKV5  
UniRef90\_UPI0003788CDF  
UniRef90\_P83341  
UniRef90\_UPI00047BDE2D  
UniRef90\_UPI00027F5A2F  
UniRef90\_F2LG05  
UniRef90\_UPI00036B2E4B  
UniRef90\_UPI00036CF2DF  
UniRef90\_UPI00047A7DFB  
UniRef90\_W7QQG6  
UniRef90\_W6LZV3  
UniRef90\_T1CMU5  
UniRef90\_UPI0003A1DB3F  
UniRef90\_P83342  
UniRef90\_Q0F526  
UniRef90\_V4IYB7  
UniRef90\_H5TE62  
UniRef90\_B8KN43  
UniRef90\_J7JBV0  
UniRef90\_A4ABT5  
UniRef90\_T0ZEA7  
UniRef90\_UPI00047448D8  
UniRef90\_QQA8A2  
UniRef90\_UPI0003B67AA4  
UniRef90\_UPI00034B7E5E  
UniRef90\_K6ZKX7  
UniRef90\_W1N4G3  
UniRef90\_H1RZ12  
UniRef90\_H8KYT4  
UniRef90\_UPI0003B761E9  
UniRef90\_W6MOD7  
UniRef90\_P80882  
UniRef90\_F7NXY2  
UniRef90\_M1FIS2  
UniRef90\_UPI0003B78011  
UniRef90\_Q46QX8  
UniRef90\_W5WYM1  
UniRef90\_A0YD43  
UniRef90\_UPI00040DFB6F  
UniRef90\_B8KTE5  
UniRef90\_L9PM27  
UniRef90\_W8L3U8  
UniRef90\_UPI0004648BDF  
UniRef90\_B3PI69  
UniRef90\_A0A024F0U3  
UniRef90\_UPI0003668B4E  
UniRef90\_F9UFF0  
UniRef90\_UPI00036A2803  
UniRef90\_B8KSX6  
UniRef90\_H8Z5Y3  
UniRef90\_F2JZT9  
UniRef90\_I3I615  
UniRef90\_A1WXH6  
UniRef90\_UPI000412E08E  
UniRef90\_M4VB83  
UniRef90\_P04169  
UniRef90\_F9ZEI3  
UniRef90\_UPI000411BA4C  
UniRef90\_UPI00035FD1A1  
UniRef90\_U1QPY3  
UniRef90\_T0SHC7  
UniRef90\_A1WX43  
UniRef90\_UPI00035EBF5F  
UniRef90\_Q2RYR1  
UniRef90\_S7WZG6  
UniRef90\_D0MJN7  
UniRef90\_D3SEI8  
UniRef90\_T0RY20  
UniRef90\_UPI0003B4BE94  
UniRef90\_UPI00036B4561  
UniRef90\_G0IWC5  
UniRef90\_UPI0003A7ACB8  
UniRef90\_UPI000378DDF3  
UniRef90\_UPI0003639111  
UniRef90\_L9VJM5  
UniRef90\_M0H7V8  
UniRef90\_UPI00035CFE5B  
UniRef90\_C6XZ75  
UniRef90\_A1WZM9  
UniRef90\_UPI000381DA49  
UniRef90\_F9ZPT8  
UniRef90\_F6FZT6  
UniRef90\_T0L107  
UniRef90\_R7ZVA0  
UniRef90\_UPI00036EBDEF  
UniRef90\_A4ADL0  
UniRef90\_N1MQF3  
UniRef90\_UPI0002624F46  
UniRef90\_UPI00036D1D60



UniRef90_UPI00037D25FD	S	H	Q	R	C	A	N	C	A	L	Y	Q	T	A	A	A	K	G	D	S	A	P	C	G	A	F	G	A	R	K	L	V	A	S	G	K	G	W	A	C	A	W	80						
UniRef90_W6WKV5	H	Q	R	C	G	N	C	M	F	F	K	P					S	D	S	E	A	N	N	G	Q	A	L	F	F	P	Q	K	H	S	V	A	P	E	A	G	W	Q	N	A	Y	79			
UniRef90_P83341	Q	K	C	I	N	C	L	L	Y	T	D	P	S				Q	E	E	W	G	G			G	A	V	F	A	G	K	L	V	T	A	N	A	N	G	W	T	A	Y	78					
UniRef90_UPI00047BDE2D	Q	V	C	A	N	C	Q	V	I	A	G	K	P	S	E	S	T								G	P	C	A	V	F	A	G	R	L	V	T	A	N	A	N	G	W	T	A	Y	77			
UniRef90_UPI00027F5A2F	E	L	C	A	S	N	C	M	F	F	V	E	G	T	E	S	T								G		Q	L	F	F	P	E	S	S	V	E	A	P	D	G	W	Q	S	A	W	76			
UniRef90_F2LG05	Q	D	C	A	A	C	S	M	Y	Q	G	K	K	G	S	T		A	A								V	A	L	G	G	K	V	V	V	A	A	K	G	W	Q	S	A	F	75				
UniRef90_UPI00036B2E4B	S	T	C	S	G	N	C	N	F	F	Q	G	K	P			T	D	A	S	A						T	A	L	G	G	K	V	V	V	A	S	K	G	W	Q	S	A	F	74				
UniRef90_UPI00036CF2DF	Q	T	C	A	N	C	S	L	Y	A	G	D	A	G			T	P	Q	Q	G	G					A	L	F	Y	G	K	E	V	A	A	A	G	W	Q	N	A	W	73					
UniRef90_UPI00047A7DFB	Q	Q	G	D	T	C	A	L	Y	Q	G	K	A	G	A		A	G	G								C	P	L	F	A	G	K	Q	V	E	A	P	K	G	W	Q	S	A	W	72			
UniRef90_W7QQG6	E	Y	C	D	N	C	M	F	Y	E	P	E	T	E												G		C	P	L	F	P	Q	N	S	V	E	A	P	R	G	W	Q	S	A	W	71		
UniRef90_W6LZV3	A	L	C	S	N	C	N	F	Y	S	G	K	A	G	E	A	S	T									G	P	C	P	L	F	F	Q	G	K	L	V	T	A	N	A	N	G	W	T	A	W	70
UniRef90_T1CMU5	Q	Y	C	G	D	C	A	F	Y	Q	G	T	A				T										E	Q	W	G	G	Q	L	F	F	G	N	D	V	H	V	K	G	W	Q	S	A	H	69
UniRef90_UPI0003A1DB3F	Q	T	A	N	C	S	L	F	Q	G	Q	S	G					D	P	Y	Y	G	G					Q	L	F	F	G	N	K	Q	V	A	A	A	G	W	Q	N	A	Y	68			
UniRef90_P83342	S	R	C	S	N	C	L	L	Y	S	N	P	D	A	K				D	W	G	P						S	V	F	F	P	K	H	L	V	A	E	A	G	W	Q	T	A	W	67			
UniRef90_Q0F526	A	Y	C	E	N	C	M	F	V	Q	G	E	D	G				Q	E		L	R	P					S	I	F	F	P	G	K	Q	V	A	A	K	G	W	Q	S	A	W	66			
UniRef90_V4IYB7	Q	H	C	A	N	C	Q	F	V	L	A	D	A	G														E	W	R	P	P	G	K	A	V	N	E	N	G	W	Q	S	A	W	65			
UniRef90_H5TE62	K	Y	C	D	N	C</																																											

UniRef90_UPI00037D25FD	A A K A
UniRef90_W6WKV5	Q A R A
UniRef90_UPI0003788CDF	T K Q P
UniRef90_P83341	V A R
UniRef90_UPI00047BDE2D	V M R A
UniRef90_UPI0002F75A2F	T A Q
UniRef90_F2LG05	S K M A
UniRef90_UPI00036B2E4B	V K K A
UniRef90_UPI00036CF2DF	E R K A G
UniRef90_UPI00047A7DFB	A K K A
UniRef90_W7QQG6	A P
UniRef90_W6LZV3	A K K
UniRef90_T1CMU5	K M K
UniRef90_UPI0003A1DB3F	T
UniRef90_P83342	V G R
UniRef90_Q0F526	A K K A
UniRef90_V4IYB7	T L K A G
UniRef90_H5TE62	L T K
UniRef90_B8KN43	S A
UniRef90_J7JBY0	N L R A
UniRef90_A4ABT5	V A
UniRef90_T0ZEA7	N P R S
UniRef90_UPI00047448D8	A K K A
UniRef90_Q0A8A2	V P A A
UniRef90_UPI0003B67AA4	A R K
UniRef90_UPI00034B7E5E	T
UniRef90_K6ZKX7	I K K
UniRef90_W1N4G3	V A
UniRef90_H1RZ12	
UniRef90_H8KYT4	A A R
UniRef90_UPI0003B761E9	A A K P
UniRef90_W6M0D7	A K K A
UniRef90_P80882	A K K A
UniRef90_F7NXY4	A K K A
UniRef90_M1FIS2	V Q K A
UniRef90_UPI0003B78011	A K K A
UniRef90_Q46QX8	
UniRef90_W5WYM1	N K K A
UniRef90_A0YD43	V P
UniRef90_UPI00040DFB6F	A K K A
UniRef90_B8KTE5	V A
UniRef90_L9PM27	
UniRef90_W8L3U8	V A R
UniRef90_UPI0004648BDF	A A R
UniRef90_B3PI69	S P R P
UniRef90_A0A024F0U3	N K K A
UniRef90_UPI0003668B4E	V P K P
UniRef90_F9UFF0	
UniRef90_UPI00036A2803	A
UniRef90_B8KSX6	T K R
UniRef90_H8Z5Y3	S P R P
UniRef90_F2JZT9	R P
UniRef90_I3I615	S P R P
UniRef90_A1WXH6	
UniRef90_UPI000412E08E	V
UniRef90_M4VB83	A K K
UniRef90_P04169	A P
UniRef90_F9ZEI3	T K K
UniRef90_UPI000411BA4C	V
UniRef90_UPI00035FD1A1	V
UniRef90_U1QPY3	A
UniRef90_T0SHC7	A K K A
UniRef90_A1WX43	A P
UniRef90_UPI00035EBF5F	V
UniRef90_Q2RYR1	A K Q S
UniRef90_S7WZG6	A P K
UniRef90_D0MJN7	V Q K A
UniRef90_D3SEI8	V
UniRef90_T0RY20	K K
UniRef90_UPI0003B4BE94	V A
UniRef90_UPI00036B4561	A K K A
UniRef90_G0IWC5	A P R
UniRef90_UPI0003A7ACB8	V
UniRef90_UPI000378DDF3	V
UniRef90_UPI0003639111	V
UniRef90_L9VJM5	V E Y E G
UniRef90_M0H7V8	V
UniRef90_UPI00035CFE5B	A A
UniRef90_C6XZ75	A P
UniRef90_A1WZM9	A P
UniRef90_UPI000381DA49	A A K Q G
UniRef90_F9ZPT8	I P K A
UniRef90_F6FZT6	S R R
UniRef90_T0L107	Y E R P
UniRef90_R7ZVA0	A P R
UniRef90_UPI00036EBDEF	A P Q
UniRef90_A4ADL0	S A
UniRef90_N1MQF3	A K K
UniRef90_UPI0002624F46	T P K S
UniRef90_UPI00036D1D60	V L K Q G

lupas\_21  
lupas\_14  
lupas\_28  
jnet  
conf  
sol25  
sol5  
sol0  
jhmm  
jpssm



The diagram illustrates a 100-bit linear feedback shift register (LFSR). The current state of the register is shown as a sequence of 100 bits: 7 7 7 7 7 6 5 3 2 3 4 6 7 7 7 6 6 7 7 7 7 6 3 1 1 2 5 6 5 3 2 5 6 6 5 1 2 0 0 0. Below the current state, the next state is shown after one shift: 7 7 7 7 6 5 3 2 3 4 6 7 7 7 6 6 7 7 7 7 6 3 1 1 2 5 6 5 3 2 5 6 6 5 1 2 0 0 0. Yellow arrows indicate the shift of bits to the right and the feedback calculation. The feedback calculation is performed on the bits at positions 1, 2, 3, 6, 7, 8, 9, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80. The result of the feedback calculation is 0, which is shifted into the 100th bit position of the next state.



lupas\_21  
lupas\_14  
lupas\_28  
jnet  
conf  
sol25  
sol5  
sol0  
jhmm  
jpssm

5 7 8 9 9  
B