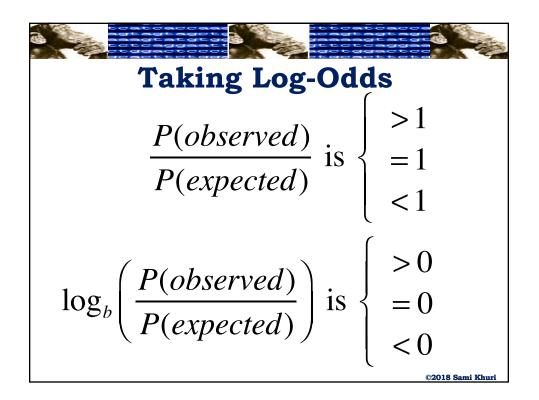
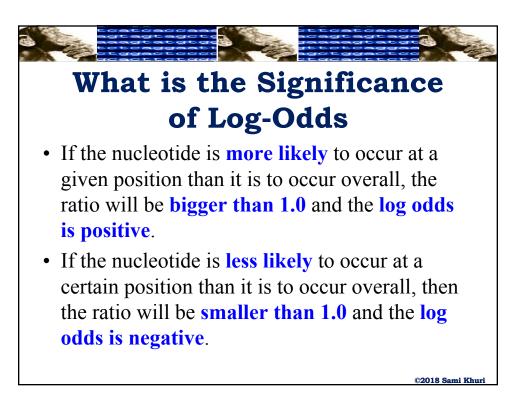


The The	proł	babil	ity o	f hav	ring a in the	n A i	n the	e firs	st po	sitio	n is:	61/3			
The	1		2		0				1				<u> 89 =</u>	0.15	.68
The	1		2		0				1						ບທ
		ылн		1 4 1			ona				119/ 70	89 =	0 79		00
Simi	1		all 4	1 has	es at a	all 15	nos	1		15. 5	0715		0.17	15	
	-						-								
wet	an t	nus	creat	le a la	able c	n ne	quei	icies	.						
able MI	M2.1 N	ucleotid	e freque	encies in	389 <mark>kn</mark> ow	'n TATA b	oxes.								
												40	40		
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Position	1	2 16	3 352	4	5 354	6 268	7 360	8 222	9 155	10 56	83	82	13 82	14 68	
osition	1 61 145	-	•	4 3 10		•	7 360 3	•							7
Position	<u> </u>	- 16	352	•	354	268	7 360 3 10	•	155	56	83	82	82	68	15 77 101 14(

Supj	ead o	of cre	eatin the	g a ta geno	able c me-w	of free vide a	quen	icies ige (, we G and	crea d C c	ite a 1	table	of lo	og-00	dds
Supj			the	geno	me-w	vide a	ivera	ige (5 and	d C o				•	dds
Supj			the	geno	me-w	vide a	ivera	ige (5 and	d C o				•	uuu
	pose	mai		•				•			Jointe	111 15			
	.1	1											-- 7/0)-	
The	n the	prot	Jabi	nty c	or an A	A 15 U	.30/.	2 = 0).28.						
٥σ.	(0.14)	568/(0.28) = 10	$\log_2(0$	56) =	= - 0	84							
02	·			/	02 \										
	. 4 la a 4	+1		<u>- 01 1</u>	ne iog	garni		ere	1S Z.						
		t the													
					3/0.28	() = 1	.5.								
Sim	ilarly	, log	$g_2(0.$.7943	3/0.28 389 know	·									
Sim	ilarly	, log	$g_2(0.$.7943		·		8	9	10	11	12	13	14	15
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Sim: able M	ilarly M2.1 Nu 1	v, log ucleotide 2	g ₂ (0. e freque 3	.7943 encies in 4	389 know 5	n TATA b 6	oxes. 7	•	•						77
Sim able M	ilarly M2.1 Nu 1 61	v, log ucleotide 2 16	g ₂ (0. e freque 3 352	.7943 encies in 4 3	389 know 5 354	n TATA b 6 268	oxes. 7 360	222	155	56	83	82	82	68	15 77 101 140

					sta	Citer Inte	1	-		ore.		te		100	
		1	۱ ۲		T			44	ام	Т	h	10	0		
				C	Lc	' B'		uu	12	Li	aIJ	16	2		
Table M	M2.1 N	ucleoti	de freq	uencies	in 389 kı	nown TAT	A boxes.								
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	- 1
A	61	16	352	3	354	26	8 36) 222	155	56	83	82	2 82	2 68	3
С	145	46	0	10	()	0 3	32	44	135	147	127	7 118	3 107	7 1
G	152	18	2	2	Ę	j	0 10) 44	157	150	128	128	3 128	3 139	9 14
Т	31	309	35	374	30) 12	1 (6 121	33	48	31	52	2 61	75	5
Table M	M2.2 P	osition	weight	matrix.											
	M2.2 P				1 70	1.00	1.76	1.02	0.51	0.00	0.00	0.41	0.41	0.00	0.50
A —0.	84 —2	.77	1.69	-5.18	1.70	1.30	1.76	1.03	0.51	-0.96	-0.39	-0.41		-0.68	-0.50
A -0. C 0.	84 -2 76 -0	2.77 1.90 –		-5.18 -3.10	-99.00	-99.00	-4.80	-5.42	-0.96	0.66	-0.39 0.78	-0.41 0.57	-0.41 0.46	0.32	0.24
A -0. C 0.	84 -2 76 -0	2.77 1.90 –	1.69	-5.18											





	A	U:	sir	ng	Lc)g-	00	dd	s '	Ta	b1	es	: (]	.)	
Tab	le MM2	.2 Positi	ion weigh	t matrix.									•	•	
А	-0.84	-2.77	1.69	-5.18	1.70	1.30	1.76	1.03	0.51	-0.96	-0.39	-0.41	-0.41	-0.68	-0.50
С	0.76	-0.90	-99.00	-3.10	-99.00	-99.00	-4.80	-5.42	-0.96	0.66	0.78	0.57	0.46	0.32	0.24
G	0.83	-2.25	-5.42	-5.42	-4.10	-99.00	-3.06	-0.96	0.88	0.81	0.58	0.58	0.58	0.70	0.71
Т	-1.81	1.50	-1.64	1.78	-1.86	0.15	-4.14	0.15	-1.72	-1.18	-1.81	-1.07	-0.84	-0.54	-0.62
Tak	la MMO	2 01/14		the 1E h				1 a a ma	~						
Təb	le MM2 A	.3 PWM	score of A	the 15 b T	p sequen A	T T	ATATA A	AGCTG T	G. A	A	G	C	T	G	G
										A -0.96	G -0.39	C -0.41	T -0.41	G -0.68	G - 0.50
A	A	C	A	T	A	T	A	Т	A			-			
Təb A G	A -0.84	C -2.77	A 1.69	T -5.18	A 1.70	T 1.30	A 1.76	T 1.03	A 0.51	-0.96	-0.39	-0.41	-0.41	-0.68	-0.50
A C	A -0.84 0.76	C -2.77 -0.90	A 1.69 -99.00	T -5.18 -3.10	A 1.70 -99.00	T 1.30 -99.00	A 1.76 -4.80	T 1.03 -5.42	A 0.51 -0.96	-0.96 0.66	-0.39 0.78	-0.41 0.57	-0.41 0.46	-0.68 0.32	-0.50 0.24

Tah			on weigh			g-(Od	ld	s 1	[a]	b1	es	(I	I)	
A	-0.84	-2.77	1.69	-5.18	1.70	1.30	1.76	1.03	0.51	-0.96	-0.39	-0.41	-0.41	-0.68	-0.5
С	0.76	-0.90	-99.00	-3.10	-99.00	-99.00	-4.80	-5.42	-0.96	0.66	0.78	0.57	0.46	0.32	0.2
G	0.83	-2.25	-5.42	-5.42	-4.10	-99.00	-3.06	-0.96	0.88	0.81	0.58	0.58	0.58	0.70	0.
Т	-1.81	1.50	-1.64	1.78	-1.86	0.15	-4.14	0.15	-1.72	-1.18	-1.81	-1.07	-0.84	-0.54	-0.
Tah	le MM2	3 PWM	score of	the 15 h	n sequer		מידמידמי	ACCTC	c						
Təb	ole MM2 A	.3 PWM C	score of A	the 15 b	p sequer A	ice ACAT T	'ATATA A	AGCTG T	g. A	A	G	С	T	G	G
						ICE ACAT T 1.30		AGCTG T 1.03		A -0.96	G 0.39	C -0.41	T -0.41	G -0.68	G - 0.9
A	A	С	A	T	A	T	A	Т	А			ě		-	
A C	A -0.84	C -2.77	A 1.69	T -5.18	A 1.70	T 1.30	A 1.76	T 1.03	A 0.51	-0.96	-0.39	-0.41	-0.41	-0.68	-0.
A C G T	A -0.84 0.76 0.83 -1.81	C -2.77 -0.90 -2.25 1.50	A 1.69 -99.00 -5.42 -1.64	T -5.18 -3.10 -5.42 1.78	A 1.70 -99.00 -4.10 -1.86	T 1.30 -99.00 -99.00 0.15	A 1.76 -4.80 -3.06 -4.14	T 1.03 -5.42 -0.96 0.15	A 0.51 -0.96 0.88 -1.72	-0.96 0.66 0.81 -1.18	-0.39 0.78 0.58 -1.81	-0.41 0.57 0.58 -1.07	-0.41 0.46 0.58 -0.84	-0.68 0.32 0.70 -0.54	-0. 0. -0.
A C G T	A -0.84 0.76 0.83 -1.81 To see	C -2.77 -0.90 -2.25 1.50 e if a s s from	A 1.69 -99.00 -5.42 -1.64 sequen the P'	T -5.18 -3.10 -5.42 1.78 ce of	A 1.70 -99.00 -4.10 -1.86 length and see	T 1.30 -99.00 -99.00	A 1.76 -4.80 -3.06 -4.14 a TATZ get a 1	T 1.03 -5.42 -0.96 0.15 A box value	A 0.51 -0.96 0.88 -1.72 , we s above	-0.96 0.66 0.81 -1.18 imply	-0.39 0.78 0.58 -1.81 add t	-0.41 0.57 0.58 -1.07 the conshhold	-0.41 0.46 0.58 -0.84	-0.68 0.32 0.70 -0.54	-0. 0. 0.

