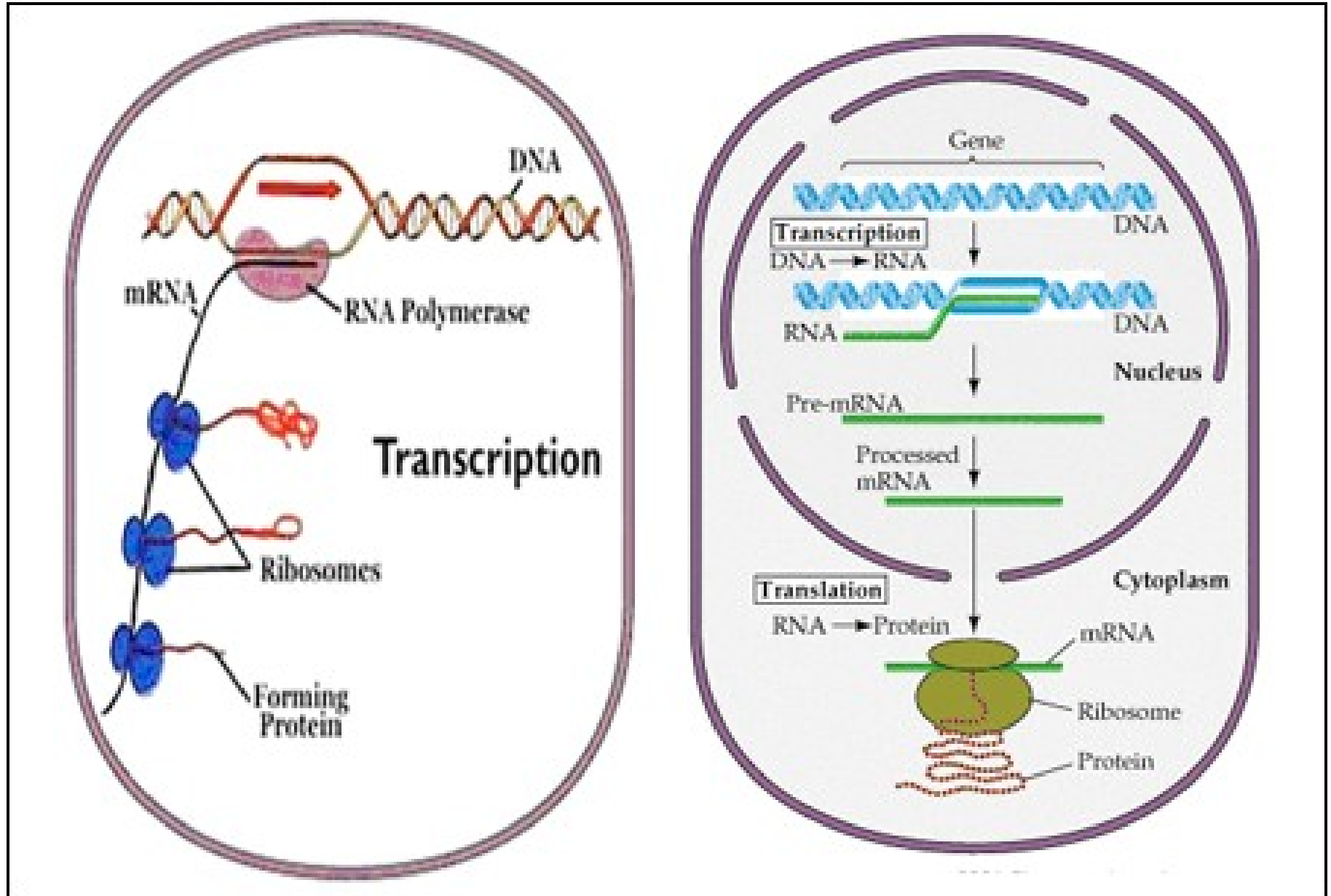


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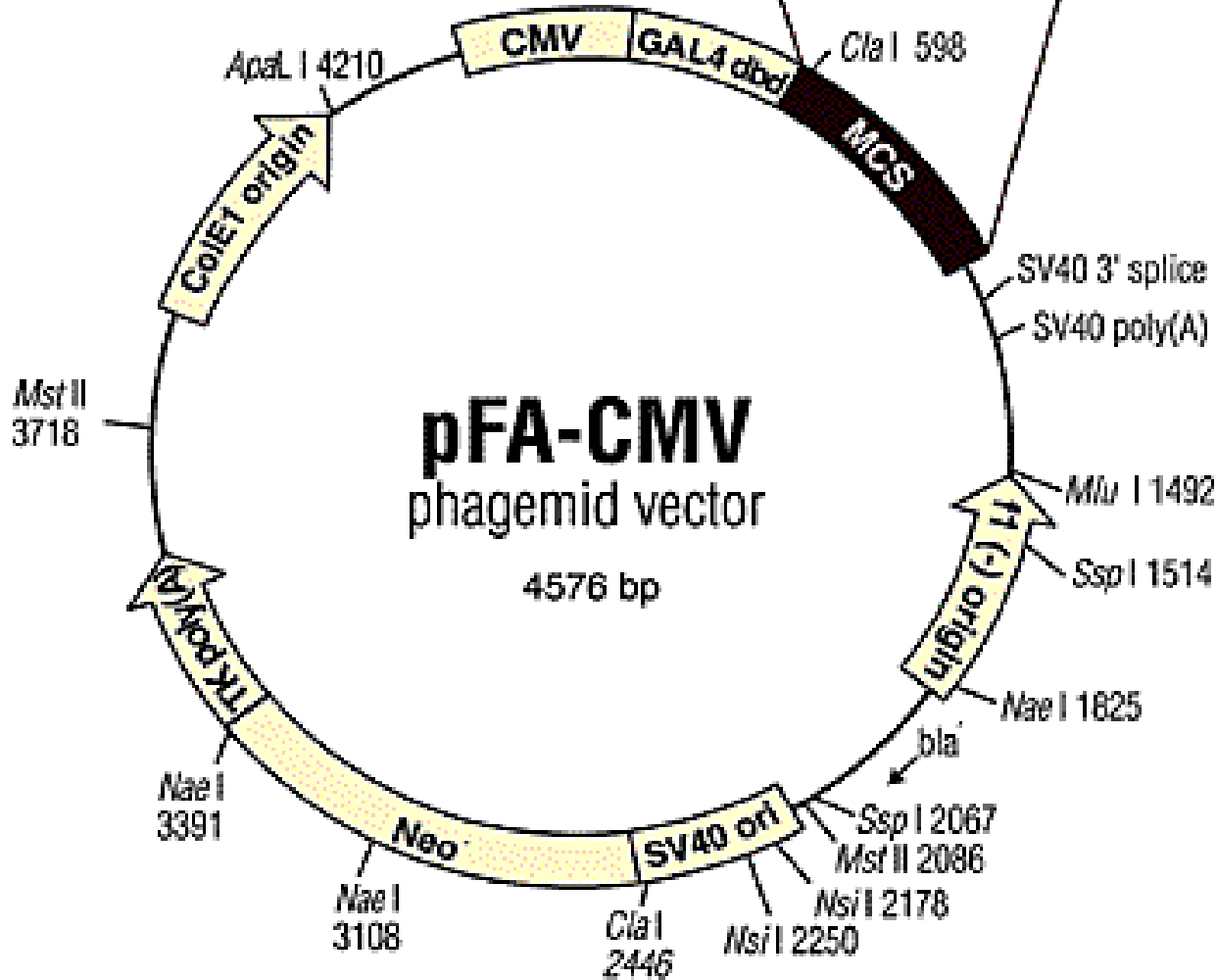


1



2

BamHI SrfI SmaI EcoRI XbaI Hind III PstI SacI KpnI Bgl II
 GTA TCG CCG GGA TCC GCC CGG GCT GGA ATT CTA GAA GCT TCT GCA GAG CTC GGT ACC AGA TCT TGA ATA AGT AG
 V S P G S G R A G I L E A S A E L G T R S * * *



3

Sequences producing High-scoring Segment Pairs:	High Score	Smallest Sum Probability P(N)	N
.....			
sp P08506 DACC_ECOLI PENICILLIN-BINDING PROTEIN 6 PRECURS...	894	5.0e-120	1
sp P38422 DACF_BACSU PENICILLIN-BINDING DACF PROTEIN PREC...	209	5.0e-47	3
.....			
sp P28271 IREB_MOUSE IRON-RESPONSIVE ELEMENT BINDING PROT...	59	0.9996	1
sp P31571 CAIA_ECOLI PROBABLE CARNITINE OPERON OXIDOREDUC...	48	0.9998	2

D. Alignments

.....

>sp|P08506|DACC_ECOLI PENICILLIN-BINDING PROTEIN 6 PRECURSOR
(D-ALANYL-D-ALANINE CARBOXYPEPTIDASE FRACTION C) (EC 3.4.16.4)
(DD-PEPTIDASE) (DD-CARBOXYPEPTIDASE) (PBP-6).
Length = 400

Score = 894 (409.5 bits), Expect = 5.0e-120, P = 5.0e-120
Identities = 169/342 (49%), Positives = 237/342 (69%)

Query: 1 MDYTTGQILTAGNEHQQRNPASLTKLMTGYVVDRAIDSHRITPDDIVTVGRDAWAKDNPV 60
MDY +G++L GN ++ +PASLTK+MT YVV +A+ + +I D+VTVG+DAWA NP

Sbjct: 45 MDYASGKVLAEAGNADEKLDPASLTKIMTSYVVGQALKADKIKLTDMMVTVGKDAWATGNPA 104

Query: 61 FVGSSLMFLKEGDRVSVRDLRGLIVDSGNDACVALADYIAGGQRQFVEMMNNYA EKLHL 120
GSS+MFLK GD+VSV DL++G+I+ SGNDAC+ALADY+AG Q F+ +MN YA+KL L

Sbjct: 105 LRGSSVMFLKPGDQVSVADLNKGVIIQSGNDACIALADYVAGSQESFIGLMNGYAKKLGL 164

NPG motif

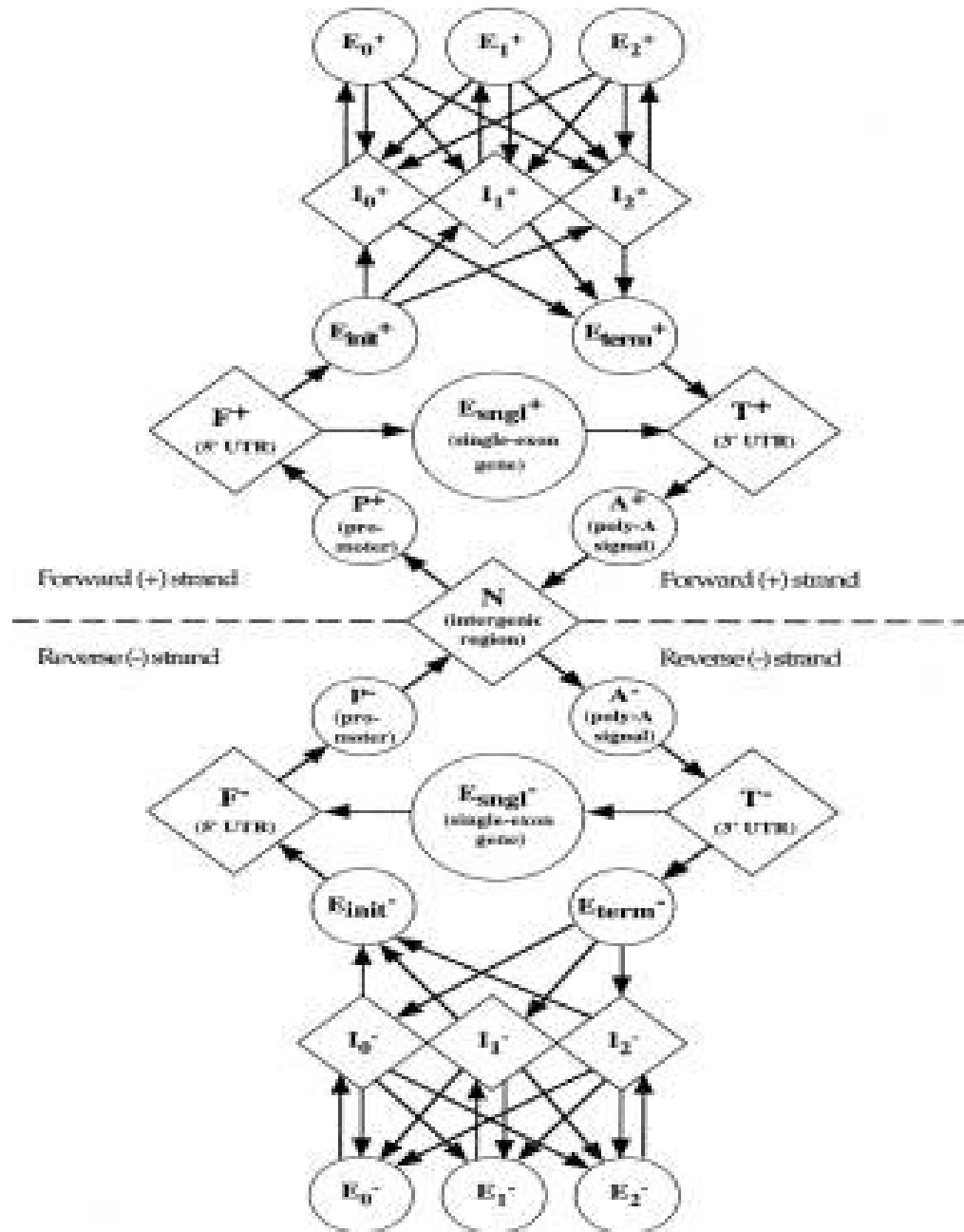
OsOPT1	108	GGEC	SLNPGPFNMKEHVLVS	IFANAGCAFGSGSAYAV
OsOPT8	108	G	EWSLNPGPFNMKEHVLIS	IFANAGCAFGNGNAYAV
OsOPT6	125	G	ECSLNPGPFNVKEHVLIS	IFANAGAAFGNGGAYAI
OsOPT2	125	PWEFTLN	PGPFNVKEHVLIT	IFANS----GAGTVYAI
OsOPT3	140	PWEFTLN	PGPFNVKEHVLIT	IFANS----GAGTVYAI
OsOPT4	126	PWEFTLN	PGPFNVKEHVLIT	IFANA----GAGSVFAI
OsOPT7	160	LGSE	SLNPGPFNIKEHVIIT	IFANCGVSYGGDAYSI
OsOPT5	151	-WSE	SLNPGPFSLKEHCLIIIF	AGA----GASGVYAM
OsOPT9	122	AWSE	SLNPGPFNLKEHVLIT	IFANT----GSNSVYAV

. :*****.:*** :: ***. * . .:::

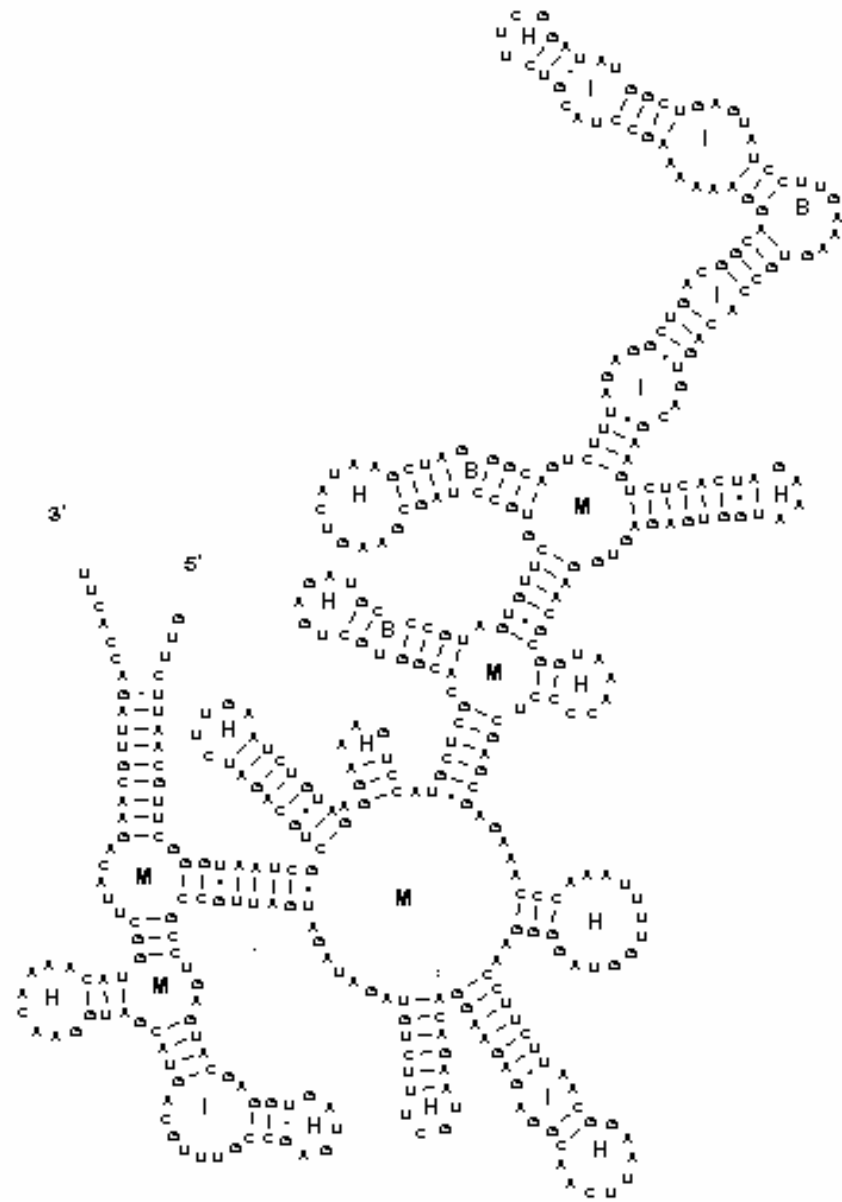
KIPPR motif

OsOPT1	523	AVSFLS	DFKLGHYMKIPPKSMFLV	KLVTIVVASTVN
OsOPT8	521	AIAFLS	DFKLGHYMKIPPKSMFLV	QFIGTIVAGTVN
OsOPT6	530	AVSFLT	DFKLGHYMKIPPRSMFLV	QFIGTIVAGTVN
OsOPT2	534	ALTFLQ	DFKLGHYMKIPPRTMFMA	QVGTIIAAAFVY
OsOPT3	547	ALAFLE	DFKLGHYMKIPPRTMFMA	QVGTIIAAAFVY
OsOPT4	530	ALAFLO	DFKLGHYMKIPPRTMFMA	QVGTIIAAAFVY
OsOPT7	577	ALSFLA	DLKLGHYMKIPPRCMYTA	QLVGTIVVAGVVN
OsOPT5	564	ALTFVS	DFKLGHYMKIPPRSMFMV	QLAGTIVVASTVH
OsOPT9	528	AIMFLO	DFKLGHYMKIPPRSMFIV	QLVGTIVLASSVY

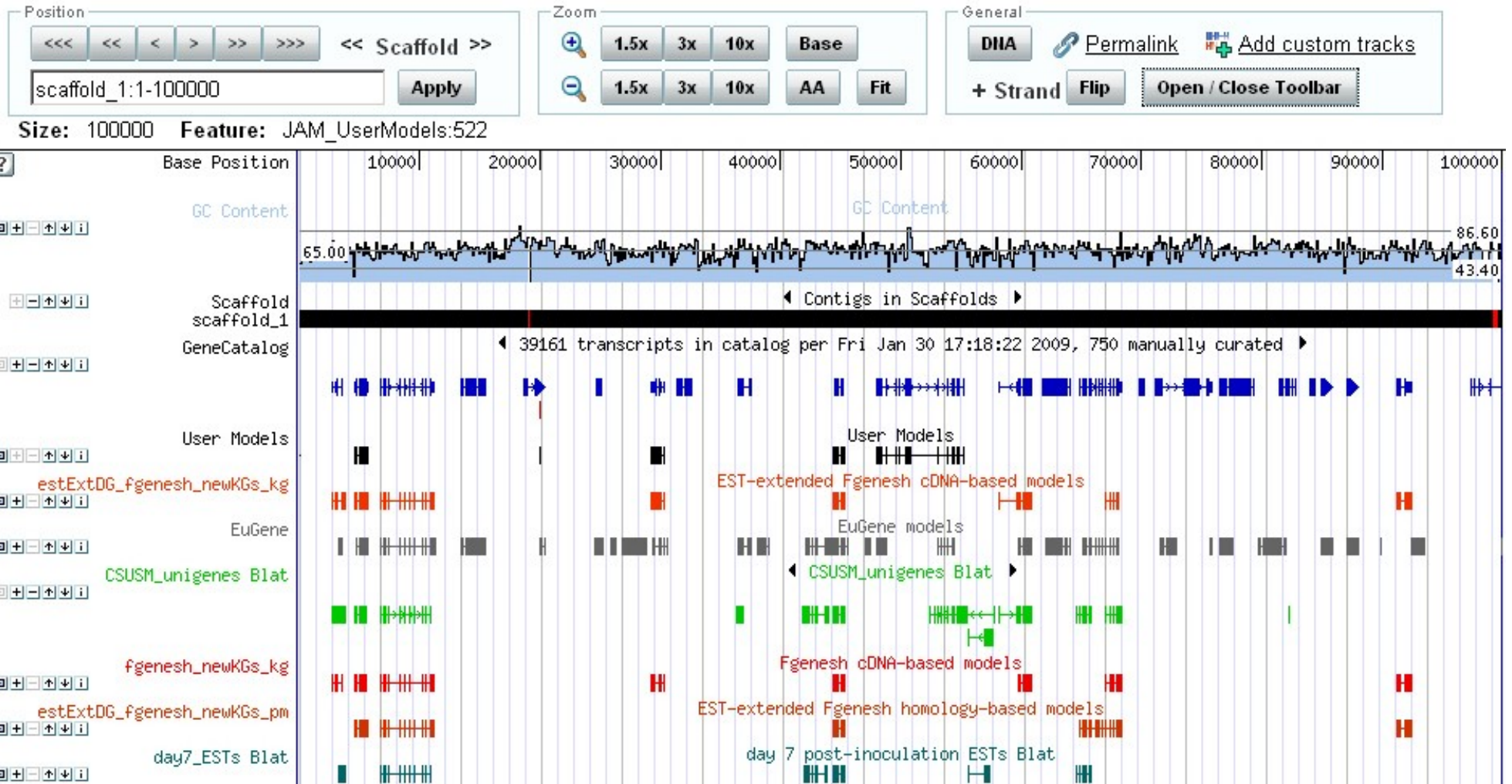
*: *: *:*****: *: .:. ** :*. *



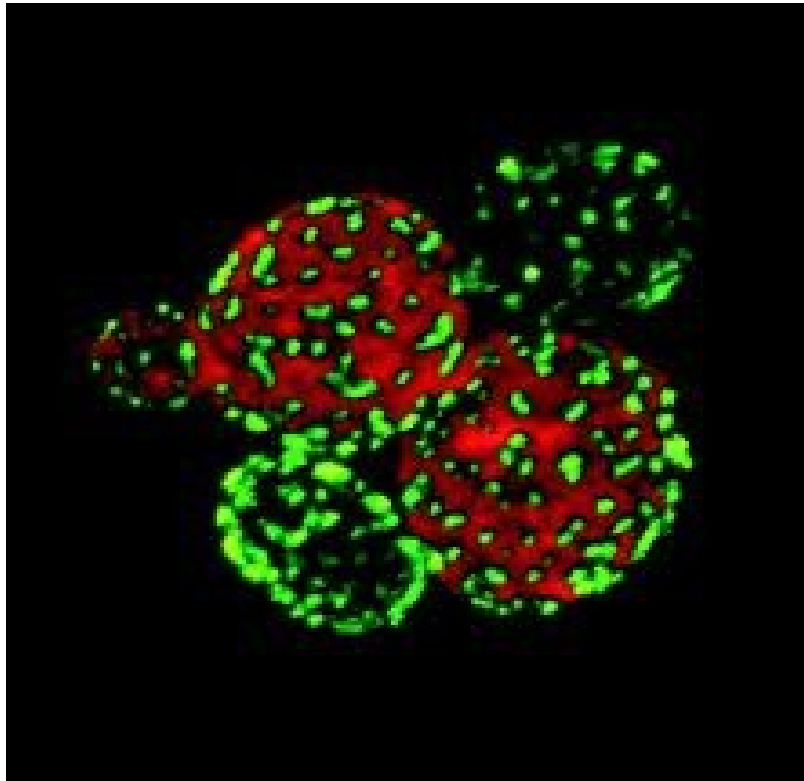
6

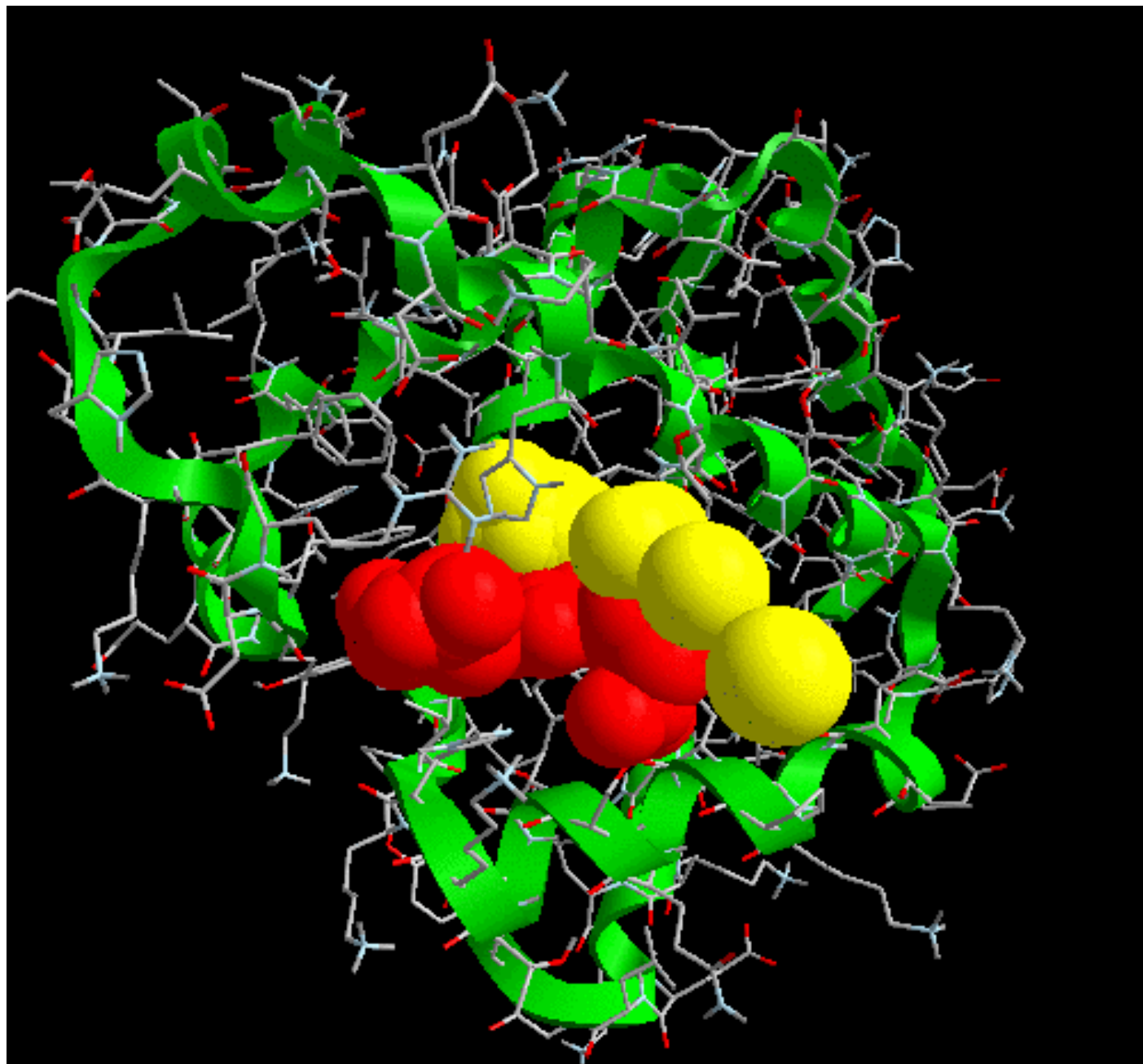


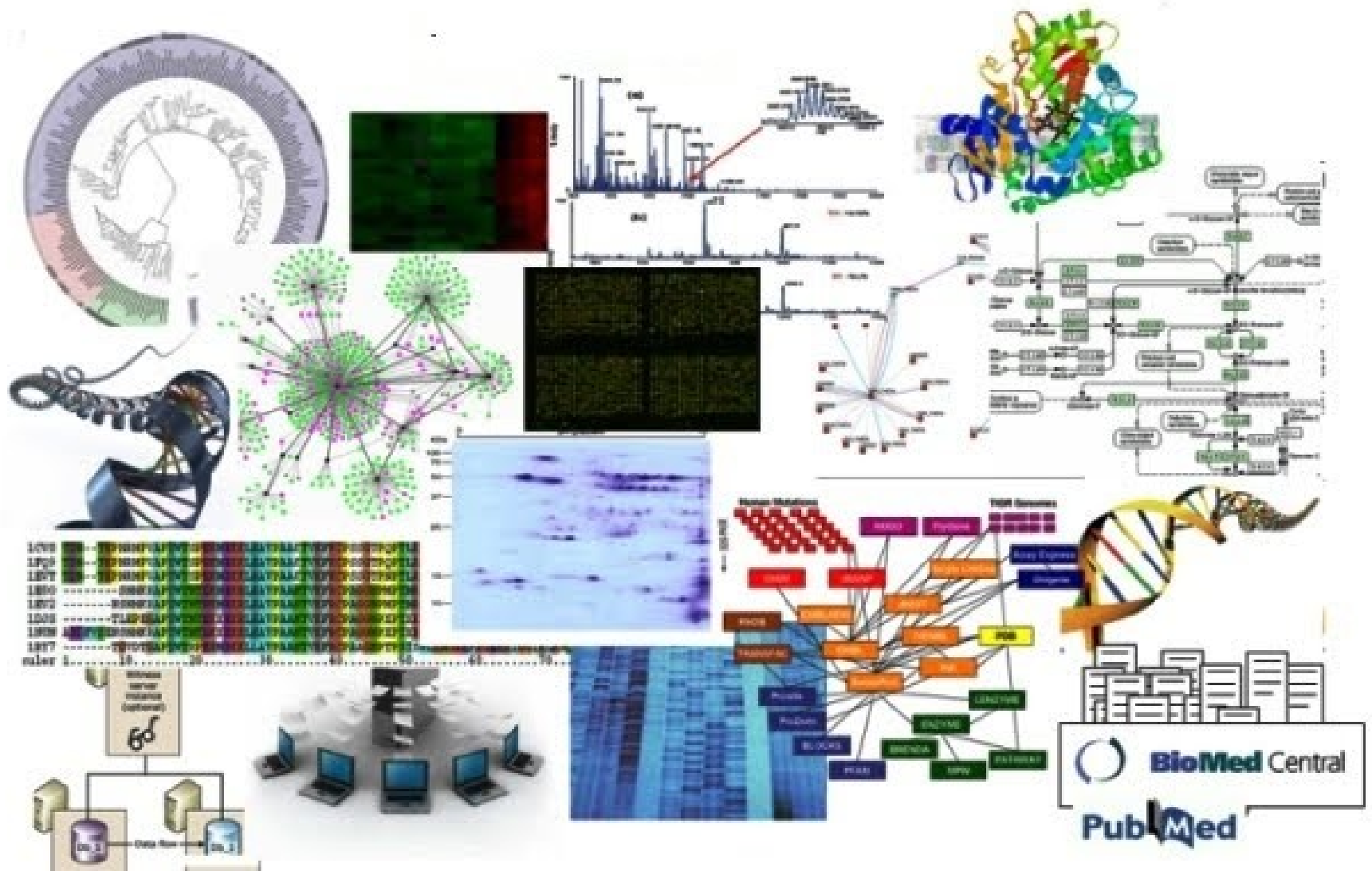
	G	G	G	A	A	A	U	C	C	
	0	0	0	0	0	0	1	2	3	G
	0	0	0	0	0	0	1	2	3	G
		0	0	0	0	0	1	2	2	G
			0	0	0	0	1	1	1	A
				0	0	0	1	1	1	A
					0	0	1	1	1	A
						0	1	1	1	U
							0	0	0	C
								0	0	C



9







EBI - Hinxton



Sanger Sequencing Centre

