































Teachare an	roun	۲			
130CHOIC GI	oup	5			
Group	I II III			IV	
C + G% range	<b>&lt;</b> 43	43-51	51-57	>57	
Number of genes	65	115	115 99		
Est. proportion single-exon genes	0.16	0.19	0.23	0.1	
Codelen: single-exon genes (bp)	1130	1251	1304	113	
Codelen: multi-exon genes (bp)	902	908	1118	116	
Introns per multi-exon gene	5.1	4.9	5.5	5.	
Mean intron length (bp)	2069	1086	801	51	
Est. mean integenic length (bp)	83000	36000	5400	260	

Tuitial weak	s a la i li			
Initial proc		II	III	IV
Intergenic (N)	0.892	0.867	0.54	0.418
Intron (IO+,I1+,I2+,IO-,I1-,I2-)	0.095	0.103	0.338	0.388
5' Untranslated region (F+, F-)	0.008	0.018	0.077	0.122
3' Untranslated region (T+, T-)	0.005	0.011	0.045	0.072
All other probabilities se	2 <b>t to zer</b> vika Subramar	<b>'O.</b> nian, 2007		91



















































![](_page_21_Figure_1.jpeg)

	# of	Nucleotide accuracy				Ехон ассигасу							
Programs	sequences	Sn	Sp	AC	cc	ESn	ESp	(ESn+Esp)/2	ME	WE	PCa	PCp	01
FGENES	195 (5)	0.86	0.88	0.84±0.19	0.83	0.67	0.67	0.67±0.32	0.12	0.09	0.20	0.17	0.0
GeneMark.hmm	195 (0)	0.87	0.89	0.84±0.18	0.83	0.53	0.54	0.54±0.36	0.13	0.11	0.29	0.27	0.0
Genie	195 (15)	0.91	0.90	0.89 ± 0.16	0.88	0.71	0.70	0.71 ± 0.30	0.19	0.11	0.15	0.15	0.0
Genscan	195 (3)	0.95	0.90	0.91 ± 0.12	0.91	0.70	0.70	0.70 ± 0.32	0.08	0.09	0.21	0.19	0.0
HMMgene	195 (5)	0.93	0.93	0.91 ±0.13	0.91	0.76	0.77	0.76±0.30	0.12	0.07	0.14	0.14	0.0
Morgan	127 (0)	0.75	0.74	0.70 ± 0.21	0.69	0.46	0.41	0.43 ± 0.26	0.20	0.28	0.28	0.25	0.0
MZEF	119 (8)	0.70	0.73	0.68 ± 0.21	0.66	0.58	0.59	0.59±0.28	0.32	0.23	0.08	0.16	0.0

![](_page_22_Figure_1.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_1.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

METHODS	# <u>no</u>	Nucleotide accuracy			Exon accuracy				
	prediction	Sn	Sp	AC	ESn	ESp	$\frac{(ESn+Esp)}{2}$	ME	WE
Genscan	8	0.94	0.93	0.92	0.78	0.81	0.80	0.09 (203)	0.05
HMMgene	38	0.93	0.94	0.92	0.81	0.83	0.82	0.14 (308)	0.04
EUI	20	0.94	0.96	0.93	0.83	0.88	0.85	0.12 (250)	<b>0.03</b> (98)
GI	43	0.91	0.97	0.93	0.82	0.90	0.86	0.18 (386)	0.02 (67)
EUI_frame	27	0.93	0.96	0.93	0.83	0.88	0.85	0.13 (286)	0.03 (87)

![](_page_26_Figure_1.jpeg)