

TABLE I

The most highly expressed genes for each of the seven stages of preimplantation development

26391	ESTs	<b>103</b>	<b>38</b>	3	0	0	16	0
25988	bcl2-like 10	<b>54</b>	31	5	0	14	25	0
2077	ESTs	<b>43</b>	37	9	0	0	9	0
19060	ubiquitin-conjugating enzyme E2-17 KD3	<b>43</b>	26	12	0	0	0	0
28758	ESTs	<b>43</b>	26	13	0	8	13	0
6856	pituitary tumour-transforming 1	<b>31</b>	5	2	0	0	3	1
22252	ESTs	<b>31</b>	15	0	0	6	9	3
25189	ESTs	<b>29</b>	13	14	0	0	0	0
9745	lactate dehydrogenase 2, B chain	<b>26</b>	8	1	0	0	13	1
29476	ESTs	<b>26</b>	5	15	0	8	0	0
3774	ESTs	37	<b>107</b>	14	0	3	0	0
9714	growth differentiation factor 9	23	<b>93</b>	0	0	8	3	0
42193	spindlin	26	<b>90</b>	30	0	6	6	1
28010	ESTs	17	<b>84</b>	4	0	8	6	0
28199	ESTs	9	<b>77</b>	0	0	3	13	0
1603	retinoblastoma binding protein 7	29	<b>75</b>	2	0	3	19	5
22314	ATP-binding cassette, subfamily A (ABC1), member 3	23	<b>55</b>	28	0	0	3	0

2411	ras-GTPase-activating protein (GAP<120>) SH3-domain-binding protein 229	<b>48</b>	4	7	17	0	16
104932	B-cell translocation gene 4	17	<b>44</b>	22	0	3	0
7816	ESTs	0	<b>42</b>	1	0	0	13
22706	2,3-bisphosphoglycerate mutase	20	<b>40</b>	3	0	0	28
21712	ESTs	0	<b>38</b>	13	0	8	0
21182	ESTs	23	<b>36</b>	1	0	0	0
18154	T-cell lymphoma breakpoint 1	14	<b>35</b>	8	0	8	0
28764	ESTs	17	<b>33</b>	2	0	3	0
7051	radixin	9	<b>32</b>	4	0	0	9
27700	MTV-3 regulated mRNA sequence	57	<b>98</b>	<b>248</b>	66	20	19
56803	endogenous retroviral sequence 4 (with leucine t-RNA primer)	6	4	<b>134</b>	0	0	0
100195	developmentally regulated repeat element-containing transcript 3	0	1	<b>98</b>	7	0	0
8817	ESTs	3	0	<b>96</b>	0	0	0
3765	early growth response 1	34	11	<b>77</b>	0	0	19
18614	ESTs	0	0	<b>47</b>	3	14	0
43005	ubiquitin/60S ribosomal fusion protein	0	0	<b>35</b>	7	20	13
235	ubiquitin B	5	2	<b>28</b>	0	0	0
3886	ESTs	11	6	<b>26</b>	0	0	6
42187	carbon catabolite repression 4 homolog	6	7	<b>26</b>	3	8	22
28489	SOCS box-containing WD protein SWiP-2 (Swip2) mRNA	0	0	<b>26</b>	3	0	3
265	ESTs, highly similar to 40S ribosomal protein S25	3	3	<b>25</b>	6	11	6
18706	transformed mouse 3T3 cell double minute 4	11	5	<b>25</b>	0	3	0

1570	ubiquitin conjugating enzyme 2e (ubc2e) (also known as ubc4)	9	8	23	0	0	6	1				
5110	chitinase 5 (oviductin)	3	10	6	183	23	9	0				
2011	glutathione-S-transferase, mu 1	0	3	0	43	0	6	0				
14722	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	0	2	3	43	11	16	10				
5286	acidic ribosomal phosphoprotein PO	0	4	18	40	28	6	25				
22753	cathepsin B	0	7	1	37	0	0	2				
2147	cathepsin D	0	1	1	33	0	9	7				
22482	recombining binding protein suppressor of hairless (Drosophila)	31	30	4	33	14	0	10				
4419	ribosomal protein L5	0	2	3	30	6	9	27				
13944	amelogenin	0	0	3	30	6	13	34				
14601	glutathione-S-transferase, mu 2	0	2	1	30	0	6	0				
4076	mitochondrial DNA	37	5	28	43	110	9	5				
2944	heat shock protein cognate 70	3	15	4	23	102	41	63				
24786	biotinidase	29	5	21	37	82	56	7				
21882	ESTs	0	0	2	0	48	6	34				
2180	heat shock protein, 84 kDa 1	3	1	2	0	42	16	36				
28369	f-box only protein 15	0	0	5	0	42	6	4				
19187	prothymosin alpha	0	1	9	0	34	6	27				
21115	ESTs	3	1	2	0	34	0	3				
15259	ornithine decarboxylase, structural	0	1	17	0	28	25	10				
27897	heat shock protein, DNAJ-like 2	9	1	3	0	28	13	3				
29815	ESTs, highly similar to S-adenosylmethionine synthetase gamma form	0	1	2	3	25	0	3				

70787	eukaryotic translation elongation factor 2	0	3	1	20	25	6	14
5293	mitochondrial DNA	49	7	65	96	82	150	28
3975	casein kappa	17	5	9	66	14	106	6
43239	ribosomal protein 10	0	12	4	17	8	66	34
1139	transcription factor CP2	0	2	4	30	28	53	18
89136	H3 histone, family 3A	6	10	9	33	11	50	16
3486	ribosomal protein L3	0	3	2	37	17	47	28
66	ribosomal protein S4, X-linked	0	1	2	20	17	41	23
17869	ATP synthase, H <sup>+</sup> transporting mitochondrial F1 complex, subunit	6	2	3	10	6	41	12
1381	zona pellucida glycoprotein 3	0	1	0	0	0	28	0
2050	ESTs, highly similar to 60S ribosomal protein L15	0	3	1	0	14	28	14
27857	ESTs	0	0	1	0	6	28	5
29057	ESTs, similar to myosin regulatory light chain 2-A, smooth muscle isoform	0	2	1	0	0	28	6
372	ribosomal protein S26	3	0	2	7	8	25	18
3224	ESTs	0	3	1	0	0	25	0
16820	hemoglobin alpha, adult chain 1	11	5	11	30	3	47	113
16317	eukaryotic translation elongation factor 1 alpha 1	11	8	4	83	88	88	103
1843	heat shock protein, 86 kDa 1	49	34	5	0	42	28	98
297	melanoma X-actin	0	8	2	0	0	0	89
4172	stem-loop binding protein	20	29	9	0	20	6	78
29859	ESTs, highly similar to translational initiation factor 2 subunit	11	2	10	0	28	13	71
2329	hemoglobin, beta adult minor chain	3	3	2	3	0	6	50

114514	actin, gamma, cytoplasmic	9	5	1	13	11	13	47
4071	P40-8, functional	31	22	25	13	23	16	45
1129	repeat family 3 gene	0	2	3	3	6	3	45
7500	ferritin light chain 1	0	8	2	30	17	3	41
28357	osteomodulin	6	2	15	13	25	22	39
588	ribosomal protein L6	0	1	1	23	28	13	38
3532	ESTs, moderately similar to thymosin beta 10	0	0	1	7	3	0	34
13944	amelogenin	0	0	3	30	6	13	34
3363	prosaposin	6	3	0	3	11	16	33
10706	adenylate cyclase 6	3	3	3	3	28	13	31