

IMGT/V-QUEST reference directory release 202329-5 (21 July 2023)

1 - Number of IMGT IG and TR genes and alleles per species or taxon

2 - Number of IMGT IG genes and alleles per species or taxon and IMGT group

3 - Number of IMGT TR genes and alleles per species or taxon

1 - Number of IMGT IG and TR genes and alleles per species or taxon

Latin name	Species or taxon	IG genes	IG alleles	TR genes	TR alleles	Nb of genes	Nb of alleles
<i>Aotus nancymae</i>	Mas-night-monkey	0	0	65	79	65	79
<i>Macaca mulatta</i>	Rhesus-monkey	372	530	227	327	599	857
<i>Vicugna pacos</i>	alpaca	99	99	0	0	99	99
<i>Bos taurus</i>	bovine	114	145	394	505	508	650
<i>Camelus dromedarius</i>	camel	18	18	56	59	74	77
<i>Felis catus</i>	cat	80	80	178	178	258	258
<i>Ictalurus punctatus</i>	catfish	42	42	0	0	42	42
<i>Gallus gallus</i>	chicken	118	140	0	0	118	140
	chondrichthyes	354	354	0	0	354	354
<i>Gadus morhua</i>	cod	39	76	0	0	39	76
<i>Macaca fascicularis</i>	crab-eating-macaque	135	135	82	82	217	217
<i>Canis lupus familiaris</i>	dog	218	225	170	170	388	395
<i>Tursiops truncatus</i>	dolphin	0	0	91	98	91	98
<i>Mustela putorius furo</i>	ferret	0	0	40	40	40	40
<i>Capra hircus</i>	goat	53	53	0	0	53	53
<i>Gorilla gorilla gorilla</i>	gorilla	156	263	16	20	172	283

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<i>Mustela putorius furo</i>	ferret	Number of genes	0	0	0	0	0	0	0	0	0	0
		Number of alleles	0	0	0	0	0	0	0	0	0	0
<i>Capra hircus</i>	goat	Number of genes	0	0	0	12	4	35	2	0	0	53
		Number of alleles	0	0	0	12	4	35	2	0	0	53
<i>Gorilla gorilla gorilla</i>	gorilla	Number of genes	80	32	7	32	5	0	0	0	0	156
		Number of alleles	144	42	11	60	6	0	0	0	0	263
<i>Equus caballus</i>	horse	Number of genes	46	44	9	26	5	0	0	0	0	130
		Number of alleles	57	46	9	32	7	0	0	0	0	151
<i>Homo sapiens</i>	human	Number of genes	111	37	6	72	5	45	7	0	0	283
		Number of alleles	442	47	13	126	9	114	10	0	0	761
<i>Lemur catta</i>	lemur	Number of genes	62	11	7	13	5	0	0	0	0	98
		Number of alleles	62	11	7	25	7	0	0	0	0	112
<i>Mus musculus</i>	mouse	Number of genes	271	34	4	140	5	12	8	0	0	474
		Number of alleles	406	41	9	167	10	19	8	0	0	660
<i>Heterocephalus glaber</i>	naked-mole-rat	Number of genes	0	0	0	0	0	0	0	0	0	0
		Number of alleles	0	0	0	0	0	0	0	0	0	0
	nonhuman-primates	Number of genes	0	0	0	0	0	0	0	0	0	0
		Number of alleles	0	0	0	0	0	0	0	0	0	0
<i>Sus scrofa</i>	pig	Number of genes	15	4	5	15	5	16	3	0	0	63
		Number of alleles	17	5	6	25	9	22	4	0	0	88
<i>Ornithorhynchus anatinus</i>	platypus	Number of genes	45	3	11	0	0	0	0	0	0	59
		Number of alleles	45	3	11	0	0	0	0	0	0	59
	pongo	Number of genes	0	0	0	46	5	0	0	0	0	51
		Number of alleles	0	0	0	46	5	0	0	0	0	51

<i>Oryctolagus cuniculus</i>	rabbit	Number of genes	49	11	6	66	8	31	4	0	0	175
		Number of alleles	49	11	11	68	19	31	4	0	0	193
<i>Rattus norvegicus</i>	rat	Number of genes	232	35	4	163	7	8	4	0	0	453
		Number of alleles	232	37	4	163	7	8	4	0	0	455
<i>Salmo salar</i>	salmon	Number of genes	136	28	21	0	0	0	0	0	0	185
		Number of alleles	150	28	23	0	0	0	0	0	0	201
<i>Ovis aries</i>	sheep	Number of genes	10	4	6	12	4	69	2	0	0	107
		Number of alleles	10	4	6	12	4	87	2	0	0	125
	teleostei	Number of genes	410	0	0	0	0	0	0	175	0	585
		Number of alleles	470	0	0	0	0	0	0	182	0	652
<i>Oncorhynchus mykiss</i>	trout	Number of genes	109	37	21	0	0	0	0	0	0	167
		Number of alleles	166	60	39	0	0	0	0	0	0	265
<i>Danio rerio</i>	zebrafish	Number of genes	41	7	7	0	0	0	0	11	8	74
		Number of alleles	41	7	7	0	0	0	0	11	8	74

3 - Number of IMGT TR genes and alleles per species or taxon

		Locus	TRA		TRB			TRD			TRG		Total
Latin name	Species or taxon	IMGT group	TRAV	TRAJ	TRBV	TRBD	TRBJ	TRDV	TRDD	TRDJ	TRGV	TRGJ	
<i>Aotus nancymaae</i>	Mas-night-monkey	Number of genes	9	17	20	0	10	1	1	2	2	3	65
		Number of alleles	16	19	22	0	12	1	1	2	3	3	79
<i>Macaca mulatta</i>	Rhesus-monkey	Number of genes	57	60	67	2	14	5	4	4	9	5	227

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		Number of alleles	0	0	0	0	0	0	0	0	15	5	20
<i>Equus caballus</i>	horse	Number of genes	0	0	0	0	0	0	0	0	0	0	0
		Number of alleles	0	0	0	0	0	0	0	0	0	0	0
<i>Homo sapiens</i>	human	Number of genes	47	61	66	2	14	8	3	4	11	5	216*
		Number of alleles	113	71	147	3	16	21	3	4	19	6	388*
<i>Lemur catta</i>	lemur	Number of genes	0	0	0	0	0	0	0	0	0	0	0
		Number of alleles	0	0	0	0	0	0	0	0	0	0	0
<i>Mus musculus</i>	mouse	Number of genes	118	55	26	2	14	15	2	2	7	4	235*
		Number of alleles	296	70	52	2	19	53	3	3	28	4	488*
<i>Heterocephalus glaber</i>	naked-mole-rat	Number of genes	59	55	23	2	12	8	3	3	6	8	179
		Number of alleles	67	55	26	2	12	8	3	3	7	9	192
	nonhuman-primates	Number of genes	9	17	85	2	23	1	1	2	2	3	145
		Number of alleles	16	19	88	2	27	1	1	2	3	3	162
<i>Sus scrofa</i>	pig	Number of genes	0	0	30	3	18	0	0	0	0	0	51

		Number of alleles	0	0	0	0	0	0	0	0	0	0	0
<i>Oncorhynchus mykiss</i>	trout	Number of genes	0	0	45	1	10	0	0	0	0	0	56
		Number of alleles	0	0	45	1	10	0	0	0	0	0	56
<i>Danio rerio</i>	zebrafish	Number of genes	150	123	0	0	0	3	6	2	0	0	281*
		Number of alleles	280	136	0	0	0	6	6	2	0	0	424*

* TRAV/DV genes and alleles present in both TRAV and in TRDV reference directories are counted only once in total number of TR genes and alleles.