

# IMGT/V-QUEST reference directory release 202449-1 (2 December 2024)

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 nancymaae</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	224	263	170	170	394	433
<i>Tursiops truncatus</i>	dolphin	0	0	91	98	91	98
<i>Mustela putorius furo</i>	ferret	208	208	201	209	409	417
<i>Capra hircus</i>	goat	53	53	0	0	53	53
<i>Gorilla gorilla gorilla</i>	gorilla	209	356	206	299	415	655
<i>Equus caballus</i>	horse	130	151	0	0	130	151
<i>Homo sapiens</i>	human	284	783	216*	388*	500	1171
<i>Lemur catta</i>	lemur	248	262	0	0	248	262
<i>Mus musculus C57BL/6J</i>	mouse strain C57BL/6J	316	316	227*	227*	543	543
<i>Mus musculus</i>	mouse	693	950	235*	488*	928	1438
<i>Heterocephalus glaber</i>	naked mole-rat	0	0	180	203	180	203
	nonhuman-primate	0	0	145	162	145	162
<i>Sus scrofa</i>	pig	63	89	51	51	114	140
<i>Ornithorhynchus anatinus</i>	platypus	59	59	0	0	59	59
<i>Pongo abelii</i>	Sumatran orangutan	226	302	0	0	226	302
<i>Pongo pygmaeus</i>	Bornean orangutan	237	291	0	0	237	291
<i>Oryctolagus cuniculus</i>	rabbit	175	193	210	227	385	420
<i>Rattus norvegicus</i>	rat	453	455	0	0	453	455
<i>Salmo salar</i>	salmon	185	201	0	0	185	201
<i>Ovis aries</i>	sheep	107	125	416	492	523	617
	teleostei	585	652	0	0	585	652
<i>Oncorhynchus mykiss</i>	trout	167	265	56	56	223	321
		47	47	0	0	47	47



[illegible]

	nonhuman-primate	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	23	4	0	0	89
<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
<i>Pongo abelii</i>	Sumatran orangutan	Number of genes	86	31	8	46	5	43	7	0	0	226
		Number of alleles	155	34	12	46	5	43	7	0	0	302
<i>Pongo pygmaeus</i>	Bornean orangutan	Number of genes	95	31	7	47	5	45	7	0	0	237
		Number of alleles	144	34	9	47	5	45	7	0	0	291
<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
		Number of genes	31	10	6	0	0	0	0	0	0	47
		Number of alleles	31	10	6	0	0	0	0	0	0	47



		Number of alleles	0	0	0	0	0	0	0	0	0	0	0
<i>Macaca fascicularis</i>	crab-eating-macaque	Number of genes	0	0	66	2	14	0	0	0	0	0	82
		Number of alleles	0	0	66	2	14	0	0	0	0	0	82
<i>Canis lupus familiaris</i>	dog	Number of genes	41	53	28	2	12	3	2	4	9	16	170
		Number of alleles	41	53	28	2	12	3	2	4	9	16	170
<i>Tursiops truncatus</i>	dolphin	Number of genes	14	60	0	0	0	6	2	4	2	3	91
		Number of alleles	19	60	0	0	0	6	2	4	3	4	98
<i>Mustela putorius furo</i>	ferret	Number of genes	74	58	26	2	12	3	2	4	8	12	201
		Number of alleles	74	58	34	2	12	3	2	4	8	12	209
<i>Capra hircus</i>	goat	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>Gorilla gorilla gorilla</i>	gorilla	Number of genes	48	61	55	2	14	3	3	4	11	5	206
		Number of alleles	84	79	80	2	17	5	3	4	19	6	299
<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 C57BL/6J</i>	mouse strain C57BL/6J	Number of genes	112	55	24	2	14	15	2	2	7	4	227*
		Number of alleles	112	55	24	2	14	15	2	2	7	4	227*
<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	13	8	3	3	6	8	180

[illegible]

		Number of alleles	0	0	0	0	0	0	0	0	0	0	0
<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.