

IMGT/V-QUEST reference directory release 202625-4 (18 June 2026)

[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>Ctenopharyngodon idella</i>	carp	209	209	0	0	209	209
<i>Felis catus</i>	cat	157	158	178	178	335	336
<i>Ictalurus punctatus</i>	catfish	42	42	0	0	42	42
<i>Gallus gallus</i>	chicken	118	140	0	0	118	140
<i>Pan troglodytes</i>	chimpanzee	0	0	131	157	131	157
	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	300	814	216*	465*	516	1279
<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	953	235*	488*	928	1441
<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	64	68	127	157
<i>Ornithorhynchus anatinus</i>	platypus	59	59	0	0	59	59
<i>Pongo abelii</i>	Sumatran orangutan	232	394	231	361	463	755
<i>Pongo pygmaeus</i>	Bornean orangutan	242	350	101	139	343	489
<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
<i>Neogale vison</i>	vison	47	47	0	0	47	47
<i>Danio rerio</i>	zebrafish	74	74	281*	424*	355	498

* 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.

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

Latin name	Species or taxon	Locus	IGH			IGK		IGL		IGI		Total
		IMGT group	IGHV	IGHD	IGHJ	IGKV	IGKJ	IGLV	IGLJ	IGIV	IGIJ	
<i>Aotus nancymae</i>	Mas-night-monkey	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>Macaca mulatta</i>	Rhesus-monkey	Number of genes	111	45	7	112	5	84	8	0	0	372
		Number of alleles	158	49	10	171	5	128	9	0	0	530
<i>Vicugna pacos</i>	alpaca	Number of genes	84	8	7	0	0	0	0	0	0	99
		Number of alleles	84	8	7	0	0	0	0	0	0	99
<i>Bos taurus</i>	bovine	Number of genes	15	23	12	11	5	38	10	0	0	114

		Number of alleles	28	23	18	11	5	50	10	0	0	145
<i>Camelus dromedarius</i>	camel	Number of genes	0	0	0	13	5	0	0	0	0	18
		Number of alleles	0	0	0	13	5	0	0	0	0	18
<i>Ctenopharyngodon idella</i>	carp	Number of genes	140	41	28	0	0	0	0	0	0	209
		Number of alleles	140	41	28	0	0	0	0	0	0	209
<i>Felis catus</i>	cat	Number of genes	65	6	6	14	5	49	12	0	0	157
		Number of alleles	66	6	6	14	5	49	12	0	0	158
<i>Ictalurus punctatus</i>	catfish	Number of genes	42	0	0	0	0	0	0	0	0	42
		Number of alleles	42	0	0	0	0	0	0	0	0	42
<i>Gallus gallus</i>	chicken	Number of genes	84	4	1	0	0	28	1	0	0	118
		Number of alleles	91	4	1	0	0	43	1	0	0	140
<i>Pan troglodytes</i>	chimpanzee	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
	chondrichthyes	Number of genes	108	132	114	0	0	0	0	0	0	354
		Number of alleles	108	132	114	0	0	0	0	0	0	354
<i>Gadus morhua</i>	cod	Number of genes	39	0	0	0	0	0	0	0	0	39
		Number of alleles	76	0	0	0	0	0	0	0	0	76
<i>Macaca fascicularis</i>	crab-eating-macaque	Number of genes	88	40	7	0	0	0	0	0	0	135
		Number of alleles	88	40	7	0	0	0	0	0	0	135
<i>Canis lupus familiaris</i>	dog	Number of genes	54	6	6	22	5	122	9	0	0	224
		Number of alleles	54	6	6	61	5	122	9	0	0	263
<i>Tursiops truncatus</i>	dolphin	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>Mustela putorius furo</i>	ferret	Number of genes	58	10	8	56	5	63	8	0	0	208
		Number of alleles	58	10	8	56	5	63	8	0	0	208
<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	45	8	0	0	209
		Number of alleles	144	42	11	60	6	84	9	0	0	356
<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	121	37	6	74	5	49	8	0	0	300
		Number of alleles	472	48	15	132	10	126	11	0	0	814
<i>Lemur catta</i>	lemur	Number of genes	62	11	7	13	5	140	10	0	0	248
		Number of alleles	62	11	7	25	7	140	10	0	0	262
<i>Mus musculus</i> C57BL/6J	mouse strain C57BL/6J	Number of genes	144	24	4	130	5	3	6	0	0	316
		Number of alleles	144	24	4	130	5	3	6	0	0	316
<i>Mus musculus</i>	mouse	Number of genes	472	52	4	140	5	12	8	0	0	693
		Number of alleles	678	61	9	168	10	19	8	0	0	953
<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-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	89	31	8	49	5	43	7	0	0	232
		Number of alleles	158	34	12	94	5	82	9	0	0	394
<i>Pongo pygmaeus</i>	Bornean orangutan	Number of genes	95	31	7	49	5	48	7	0	0	242
		Number of alleles	144	34	9	76	6	72	9	0	0	350
<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>Neogale vison</i>	vison	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
<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

Latin name	Species or taxon	Locus	TRA		TRB			TRD			TRG		Total
		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
		Number of alleles	75	76	124	2	19	8	4	5	9	5	327
<i>Vicugna pacos</i>	alpaca	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>Bos taurus</i>	bovine	Number of genes	135	60	85	3	19	53	9	4	17	9	394
		Number of alleles	187	70	86	3	22	70	9	4	38	16	505
<i>Camelus dromedarius</i>	camel	Number of genes	3	0	27	1	13	7	0	0	2	3	56
		Number of alleles	3	0	27	1	13	10	0	0	2	3	59
<i>Ctenopharyngodon idella</i>	carp	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>Felis catus</i>	cat	Number of genes	48	63	25	2	10	7	2	4	7	10	178
		Number of alleles	48	63	25	2	10	7	2	4	7	10	178
<i>Ictalurus punctatus</i>	catfish	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>Gallus gallus</i>	chicken	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>Pan troglodytes</i>	chimpanzee	Number of genes	45	61	0	0	0	3	3	4	10	5	131
		Number of alleles	60	64	0	0	0	5	3	4	15	6	157
	chondrichthyes	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>Gadus morhua</i>	cod	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>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	130	73	193	3	16	22	3	5	28	7	465*
<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
		Number of alleles	69	55	31	3	14	8	3	3	7	10	203
	nonhuman-primate	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	7	6	64
		Number of alleles	0	0	30	3	18	0	0	0	11	6	68
<i>Ornithorhynchus anatinus</i>	platypus	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>Pongo abelii</i>	Sumatran orangutan	Number of genes	48	61	76	2	14	3	3	4	15	5	231
		Number of alleles	68	67	162	3	18	3	3	5	27	5	361
<i>Pongo pygmaeus</i>	Bornean orangutan	Number of genes	0	0	69	2	14	0	0	0	11	5	101
		Number of alleles	0	0	103	2	15	0	0	0	14	5	139
<i>Oryctolagus cuniculus</i>	rabbit	Number of genes	56	57	63	2	12	3	2	3	10	2	210
		Number of alleles	56	57	65	2	13	3	2	3	24	2	227
<i>Rattus norvegicus</i>	rat	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>Salmo salar</i>	salmon	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>Ovis aries</i>	sheep	Number of genes	175	69	72	3	19	65	9	4	0	0	416
		Number of alleles	213	76	72	5	22	90	10	4	0	0	492
	teleostei	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>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>Neogale vison</i>	vison	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>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*

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