

Update of the Rattus norvegicus IGHV gene nomenclature	
Definitive IMGT gene and allele name with its functionality (new)	Provisional IMGT gene name (old)
IGHV10-1*01 P	IGHV10S1*01
IGHV10-10*01 ORF	IGHV10S8*01
IGHV10-11*01 ORF	IGHV10S16*01
IGHV10-12*01 P	IGHV10S14*01
IGHV10-13*01 P	IGHV10S11*01
IGHV10-14*01 P	IGHV10S10*01
IGHV10-15*01 P	IGHV10S19*01
IGHV10-16*01 P	IGHV10S12*01
IGHV10-17*01 P	IGHV10S17*01
IGHV10-18*01 ORF	IGHV10S5*01
IGHV10-19*01 ORF	IGHV10S9*01
IGHV10-2*01 ORF	IGHV10S2*01
IGHV10-3*01 P	IGHV10S4*01
IGHV10-4*01 P	IGHV10S3*01
IGHV10-5*01 F	IGHV10S13*01
IGHV10-6*01 P	IGHV10S18*01
IGHV10-7*01 P	IGHV10S7*01
IGHV10-8*01 P	IGHV10S6*01
IGHV10-9*01 P	IGHV10S15*01
IGHV1-1*01 P	IGHV1S1*01
IGHV1-10*01 P	IGHV1S64*01
IGHV1-11*01 F	IGHV11S12*01
IGHV11-1*01 ORF	IGHV1S6*01
IGHV11-10*01 ORF	IGHV11S8*01
IGHV11-11*01 P	IGHV11S9*01
IGHV11-12*01 F	IGHV11S10*01
IGHV11-2*01 F	IGHV11S1*01
IGHV1-12*01 P	IGHV1S65*01
IGHV11-3*01 F	IGHV11S2*01
IGHV1-13*01 F	IGHV1S66*01
IGHV11-4*01 F	IGHV11S3*01
IGHV1-14*01 P	IGHV1S7*01
IGHV11-5*01 P	IGHV11S4*01
IGHV1-15*01 P	IGHV1S8*01
IGHV1-16*01 F	IGHV11S5*01
IGHV11-6*01 P	IGHV1S9*01
IGHV11-7*01 P	IGHV11S11*01
IGHV1-17*01 P	IGHV1S10*01
IGHV1-18*01 ORF	IGHV11S6*01
IGHV11-8*01 P	IGHV1S67*01
IGHV11-9*01 F	IGHV11S7*01
IGHV1-2*01 ORF	IGHV1S60*01

IGHV1-20*01 P	IGHV1S11*01
IGHV12-1*01 P	IGHV12S1*01
IGHV1-21*01 P	IGHV1S12*01
IGHV1-22*01 F	IGHV12S2*01
IGHV12-2*01 ORF	IGHV1S13*01
IGHV12-3*01 P	IGHV12S3*01
IGHV1-23*01 P	IGHV1S14*01
IGHV1-24*01 F	IGHV1S16*01
IGHV1-25*01 F	IGHV1S17*01
IGHV1-26*01 P	IGHV1S19*01
IGHV1-27*01 P	IGHV1S18*01
IGHV1-28*01 F	IGHV1S15*01
IGHV1-29*01 F	IGHV1S22*01
IGHV1-3*01 P	IGHV1S61*01
IGHV1-30*01 P	IGHV1S21*01
IGHV1-31*01 F	IGHV1S20*01
IGHV1-32*01 F	IGHV1S23*01
IGHV1-33*01 P	IGHV1S25*01
IGHV1-34*01 P	IGHV1S24*01
IGHV1-35*01 F	IGHV1S28*01
IGHV1-36*01 F	IGHV1S27*01
IGHV1-37*01 P	IGHV1S26*01
IGHV1-38*01 F	IGHV1S29*01
IGHV1-39*01 P	IGHV1S30*01
IGHV1-4*01 P	IGHV1S4*01
IGHV1-40*01 P	IGHV1S34*01
IGHV1-41*01 P	IGHV1S33*01
IGHV1-42*01 F	IGHV1S32*01
IGHV1-43*01 F	IGHV1S31*01
IGHV1-44*01 P	IGHV1S35*01
IGHV1-45*01 P	IGHV1S37*01
IGHV1-46*01 P	IGHV1S36*01
IGHV1-47*01 F	IGHV1S38*01
IGHV1-48*01 P	IGHV1S42*01
IGHV1-49*01 ORF	IGHV1S41*01
IGHV1-5*01 P	IGHV1S3*01
IGHV1-50*01 F	IGHV1S39*01
IGHV15-1*01 P	IGHV15S1*01
IGHV1-51*01 P	IGHV1S43*01
IGHV1-52*01 ORF	IGHV1S40*01
IGHV1-53*01 F	IGHV1S45*01
IGHV1-55*01 P	IGHV1S46*01
IGHV1-56*01 ORF	IGHV1S47*01
IGHV1-57*01 F	IGHV1S48*01
IGHV1-58*01 P	IGHV1S49*01
IGHV1-59*01 P	IGHV1S50*01
IGHV1-6*01 ORF	IGHV1S2*01
IGHV1-60*01 F	IGHV1S51*01
IGHV1-61*01 P	IGHV1S52*01
IGHV1-62*01 P	IGHV1S53*01

IGHV1-63*01 P	IGHV1S54*01
IGHV1-64*01 P	IGHV1S55*01
IGHV1-65*01 F	IGHV1S57*01
IGHV1-66*01 F	IGHV1S56*01
IGHV1-68*01 ORF	IGHV1S59*01
IGHV1-7*01 P	IGHV1S5*01
IGHV1-9*01 P	IGHV1S63*01
IGHV2-1*01 F	IGHV2S5*01
IGHV2-10*01 P	IGHV2S44*01
IGHV2-13*01 F	IGHV2S29*01
IGHV2-14*01 P	IGHV2S32*01
IGHV2-15*01 F	IGHV2S31*01
IGHV2-18*01 P	IGHV2S34*01
IGHV2-19*01 F	IGHV2S33*01
IGHV2-2*01 P	IGHV2S7*01
IGHV2-21*01 P	IGHV2S55*01
IGHV2-22*01 P	IGHV2S22*01
IGHV2-23*01 P	IGHV2S53*01
IGHV2-24*01 P	IGHV2S52*01
IGHV2-25*01 P	IGHV2S51*01
IGHV2-26*01 P	IGHV2S50*01
IGHV2-27*01 F	IGHV2S48*01
IGHV2-28*01	IGHV2S47*01
IGHV2-29*01 P	IGHV2S42*01
IGHV2-3*01 P	IGHV2S11*01
IGHV2-30*01 F	IGHV2S41*01
IGHV2-32*01 F	IGHV2S40*01
IGHV2-33*01 P	IGHV2S39*01
IGHV2-34*01 P	IGHV2S38*01
IGHV2-35*01 P	IGHV2S37*01
IGHV2-36*01 P	IGHV2S36*01
IGHV2-37*01 P	IGHV2S60*01
IGHV2-38*01 P	IGHV2S59*01
IGHV2-39*01 ORF	IGHV2S58*01
IGHV2-4*01 F	IGHV2S10*01
IGHV2-40*01 ORF	IGHV2S57*01
IGHV2-41*01 ORF	IGHV2S56*01
IGHV2-43*01 P	IGHV2S24*01
IGHV2-44*01 P	IGHV2S73*01
IGHV2-45*01 F	IGHV2S72*01
IGHV2-46*01 P	IGHV2S71*01
IGHV2-47*01 F	IGHV2S70*01
IGHV2-48*01 P	IGHV2S74*01
IGHV2-5*01 P	IGHV2S9*01
IGHV2-51*01 P	IGHV2S15*01
IGHV2-52*01 F	IGHV2S14*01
IGHV2-57*01 P	IGHV2S79*01
IGHV2-58*01 P	IGHV2S81*01
IGHV2-59*01 ORF	IGHV2S80*01
IGHV2-6*01 F	IGHV2S20*01

IGHV2-60*01 P	IGHV2S83*01
IGHV2-62*01 P	IGHV2S86*01
IGHV2-63*01 F	IGHV2S85*01
IGHV2-64*01 F	IGHV2S84*01
IGHV2-65*01 ORF	IGHV2S88*01
IGHV2-66*01 P	IGHV2S87*01
IGHV2-67*01 P	IGHV2S91*01
IGHV2-68*01 P	IGHV2S90*01
IGHV2-7*01 P	IGHV2S47*01
IGHV2-70*01 F	IGHV2S89*01
IGHV2-71*01 P	IGHV2S95*01
IGHV2-72*01 F	IGHV2S92*01
IGHV2-73*01 P	IGHV2S93*01
IGHV2-75*01 F	IGHV2S94*01
IGHV2-76*01 P	IGHV2S99*01
IGHV2-77*01 F	IGHV2S97*01
IGHV2-78*01 ORF	IGHV2S98*01
IGHV2-8*01 ORF	IGHV2S46*01
IGHV3-1*01 F	IGHV3S1*01
IGHV3-2*01 P	IGHV3S2*01
IGHV3-3*01 F	IGHV3S3*01
IGHV3-4*01 P	IGHV3S4*01
IGHV3-5*01 ORF	IGHV3S5*01
IGHV3-6*01 P	IGHV3S6*01
IGHV3-7*01 F	IGHV3S7*01
IGHV3-8*01 ORF	IGHV3S8*01
IGHV4-1*01 ORF	IGHV4S1*01
IGHV4-2*01 F	IGHV4S2*01
IGHV4-3*01 P	IGHV4S3*01
IGHV4-4*01 P	IGHV4S4*01
IGHV5-10*01 P	IGHV5S17*01
IGHV5-12*01 P	IGHV5S20*01
IGHV5-15*01 P	IGHV5S22*01
IGHV5-17*01 F	IGHV5S32*01
IGHV5-18*01 P	IGHV5S31*01
IGHV5-19*01 F	IGHV5S30*01
IGHV5-2*01 ORF	IGHV5S2*01
IGHV5-20*01 F	IGHV5S29*01
IGHV5-21*01 P	IGHV5S28*01
IGHV5-22*01 F	IGHV5S27*01
IGHV5-23*01 P	IGHV5S26*01
IGHV5-24*01 ORF	IGHV5S24*01
IGHV5-26*01 P	IGHV5S35*01
IGHV5-27*01 F	IGHV5S36*01
IGHV5-28*01 P	IGHV5S41*01
IGHV5-29*01 F	IGHV5S45*01
IGHV5-30*01 P	IGHV5S44*01
IGHV5-31*01 F	IGHV5S43*01
IGHV5-32*01 P	IGHV5S42*01
IGHV5-33*01 P	IGHV5S46*01

IGHV5-34*01 P	IGHV5S49*01
IGHV5-36*01 ORF	IGHV5S50*01/IGHV5S7*01
IGHV5-37*01 P	IGHV5S52*01
IGHV5-38*01 P	IGHV5S5*01
IGHV5-4*01 P	IGHV5S4*01
IGHV5-40*01 P	IGHV5S53*01
IGHV5-44*01 P	IGHV5S56*01
IGHV5-45*01 P	IGHV5S55*01
IGHV5-46*01 F	IGHV5S57*01
IGHV5-47*01 P	IGHV5S61*01
IGHV5-48*01 P	IGHV5S60*01
IGHV5-49*01 P	IGHV5S59*01
IGHV5-5*01 P	IGHV5S3*01
IGHV5-50*01 F	IGHV5S58*01
IGHV5-51*01 P	IGHV5S62*01
IGHV5-52*01 P	IGHV5S63*01
IGHV5-54*01 F	IGHV5S64*01
IGHV5-55*01 P	IGHV5S66*01
IGHV5-56*01 P	IGHV5S68*01
IGHV5-57*01 P	IGHV5S69*01
IGHV5-58*01 F	IGHV5S65*01
IGHV5-59*01 P	IGHV5S67*01
IGHV5-6*01 P	IGHV5S15*01
IGHV5-60*01 P	IGHV5S71*01
IGHV5-61*01 P	IGHV5S72*01
IGHV5-62*01 F	IGHV5S74*01
IGHV5-63*01 P	IGHV5S73*01
IGHV5-7*01 F	IGHV5S16*01
IGHV5-9*01 P	IGHV5S18*01
IGHV6-1*01 P	IGHV6S1*01
IGHV6-10*01 F	IGHV6S19*01
IGHV6-11*01 P	IGHV6S5*01
IGHV6-12*01 P	IGHV6S4*01
IGHV6-13*01 F	IGHV6S18*01
IGHV6-14*01 ORF	IGHV6S6*01
IGHV6-15*01 P	IGHV6S20*01
IGHV6-18*01 P	IGHV6S9*01
IGHV6-19*01 F	IGHV6S7*01
IGHV6-20*01 P	IGHV6S8*01
IGHV6-21*01 F	IGHV6S10*01
IGHV6-22*01 ORF	IGHV6S11*01
IGHV6-23*01 P	IGHV6S12*01
IGHV6-3*01 P	IGHV6S13*01
IGHV6-4*01 P	IGHV6S15*01
IGHV6-5*01 F	IGHV6S14*01
IGHV6-6*01 F	IGHV6S3*01
IGHV6-7*01 P	IGHV6S16*01
IGHV6-8*01 F	IGHV6S17*01
IGHV7-1*01 P	IGHV7S2*01
IGHV7-10*01 P	IGHV7S10*01

IGHV7-11*01 P	IGHV7S11*01
IGHV7-12*01 P	IGHV7S12*01
IGHV7-13*01 P	IGHV7S14*01
IGHV7-14*01 F	IGHV7S13*01
IGHV7-15*01 P	IGHV7S15*01
IGHV7-16*01 P	IGHV7S16*01
IGHV7-2*01 F	IGHV7S1*01
IGHV7-3*01 P	IGHV7S3*01
IGHV7-4*01 F	IGHV7S4*01
IGHV7-6*01 ORF	IGHV7S5*01
IGHV7-7*01 F	IGHV7S6*01
IGHV7-8*01 P	IGHV7S8*01
IGHV7-9*01 P	IGHV7S9*01
IGHV8-1*01 P	IGHV8S1*01
IGHV8-14*01 P	IGHV8S4*01
IGHV8-15*01 P	IGHV8S5*01
IGHV8-16*01 F	IGHV8S6*01
IGHV8-17*01 F	IGHV8S7*01
IGHV8-20*01 F	IGHV8S11*01
IGHV8-21*01 P	IGHV8S9*01
IGHV8-22*01 F	IGHV8S10*01
IGHV8-23*01 F	IGHV8S12*01
IGHV8-25*01 F	IGHV8S13*01
IGHV8-26*01 P	IGHV8S14*01
IGHV8-27*01 F	IGHV8S16*01
IGHV8-28*01 P	IGHV8S15*01
IGHV8-29*01 P	IGHV8S17*01
IGHV8-3*01 ORF	IGHV8S2*01
IGHV8-5*01 P	IGHV8S3*01
IGHV9-1*01 P	IGHV9S1*01
IGHV9-2*01 P	IGHV9S2*01
IGHV9-4*01 F	IGHV9S4*01
IGHV9-5*01 P	IGHV9S5*01
IGHV9-6*01 F	IGHV9S6*01
IGHV9-7*01 P	IGHV9S7*01
IGHV9-8*01 F	IGHV9S8*01