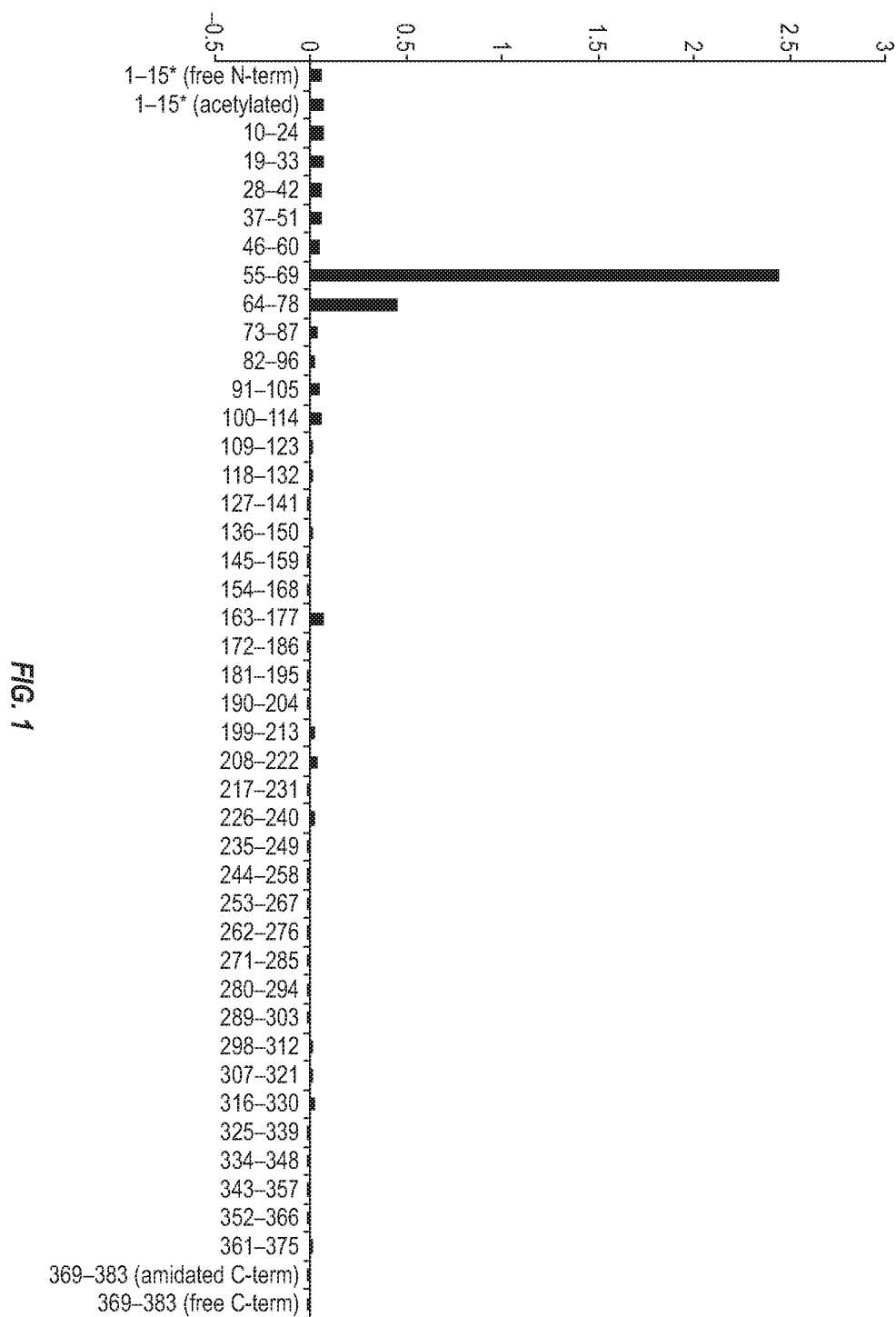




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Alignments of the 16G7 mouse/humanized VH:

Majority EVQLXQXGAEXVKPGASVKXSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY

16G7 VH protein	EVQLQPGSVLTPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv1 protein	EVQLQPGSVLTPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv2 protein	EVQLQOSGAELVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv2a protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv2aB7 protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv2b protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv2bH7 protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv3 protein	EVQLQPGSVLTPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv4 protein	EVQLQOSGAELVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv5V protein	EVQLQPGSVLTPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv5VR protein	EVQLQPGSVLTPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv6a protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv6b protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60
hui16G7VHv7 protein	EVQLMQSGAEVVKPGASVKLSCKASGYFTFTSSWIHWVRQRPQGQLEWIGEIYPNSGNTNY	60

Majority

NEKFKGXXTLTVDISISTAYMELXLTSDTAVIYCARLGWLIPLDYGQGTTTVSS

SEQ ID NO:52

70 80 90 100 110

16G7 VH protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:7
hui16G7VHv1 protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:15
hui16G7VHv2 protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:16
hui16G7VHv2a protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:17
hui16G7VHv2aB7 protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:18
hui16G7VHv2b protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:19
hui16G7VHv2bH7 protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:20
hui16G7VHv3 protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:21
hui16G7VHv4 protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:22
hui16G7VHv5V protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:23
hui16G7VHv5VR protein	NEKFKGKATLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:24
hui16G7VHv6a protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:25
hui16G7VHv6b protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:26
hui16G7VHv7 protein	NEKFKGRVLTVDISISTAYMELTSLTSDTAVIYCARLGWLIPLDYGQGTTTVSS	118	SEQ ID NO:27

FIG. 2

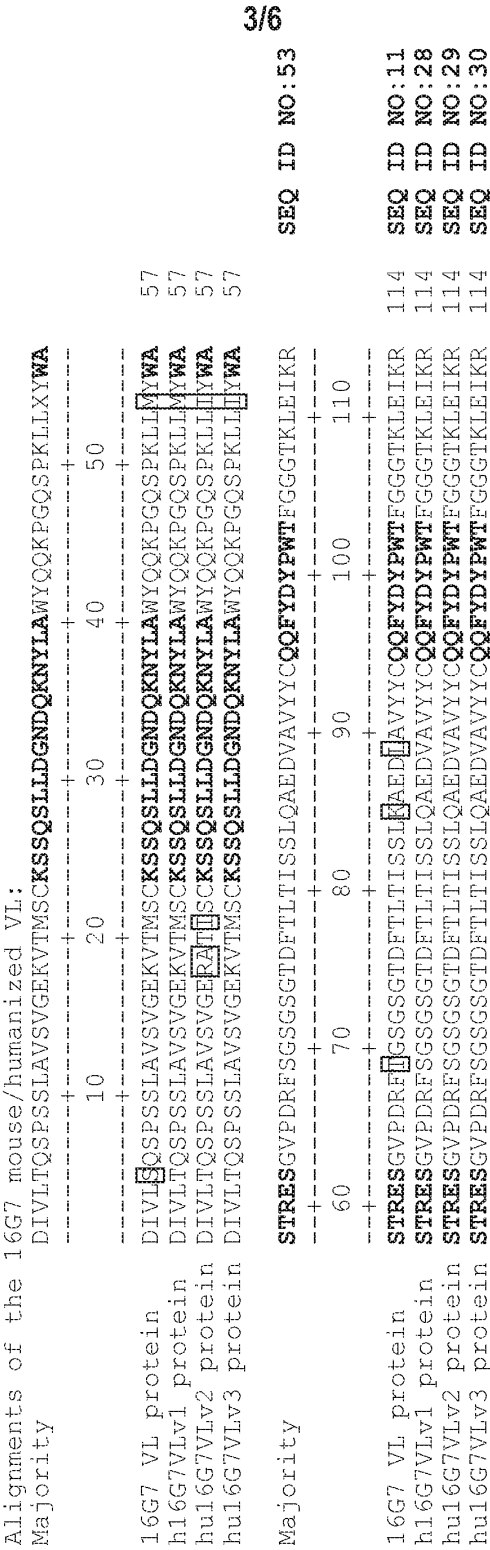
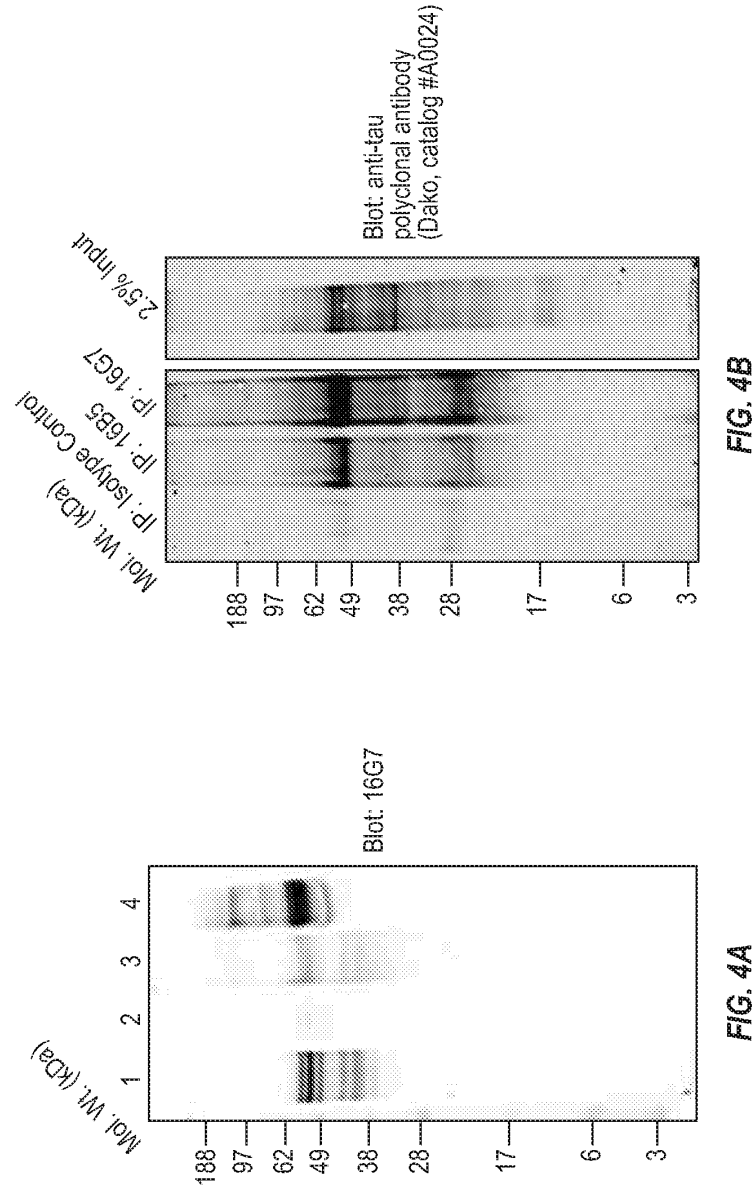


FIG. 3



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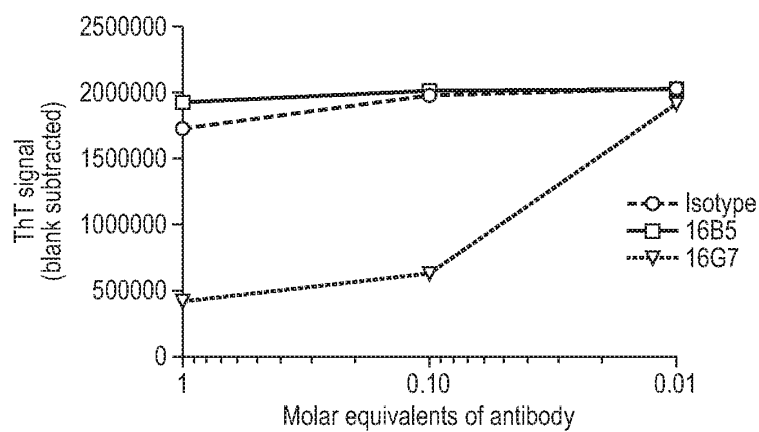


FIG. 5

16G7	k_{assoc}	k_{dissoc}	K_d
Human tau	1.64E6	5.63E-4	3.42E-10

FIG. 6

Name	$k_a(\text{M}^{-1}\text{s}^{-1})$	$k_d(\text{s}^{-1})$	$k_D(\text{pM})$
hu16G7VHv2a /hu16G7VLv2	3×10^6	8.33×10^{-4}	277
hu16G7VHv2b/hu16G7VLv2	3.52×10^6	1.07×10^{-3}	303
hu16G7VHv7/hu16G7VLv2	4.89×10^6	1.43×10^{-3}	293
Chimeric	2.9×10^6	5.4×10^{-4}	187

FIG. 7

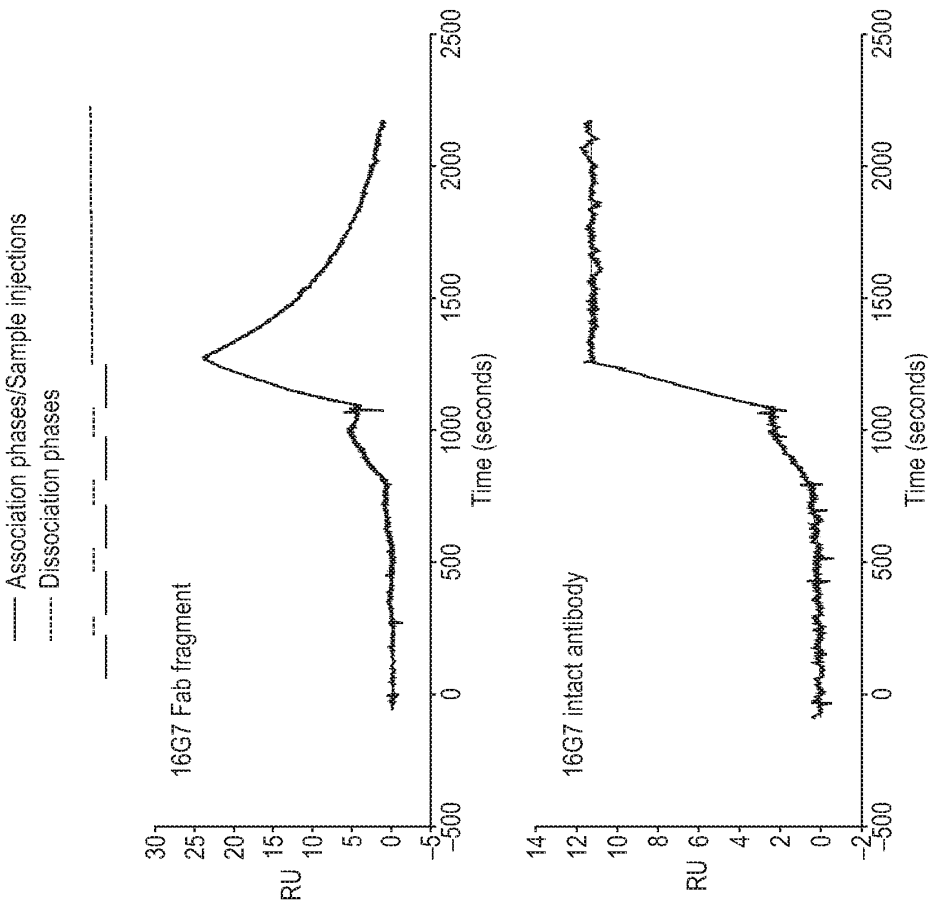


FIG. 8