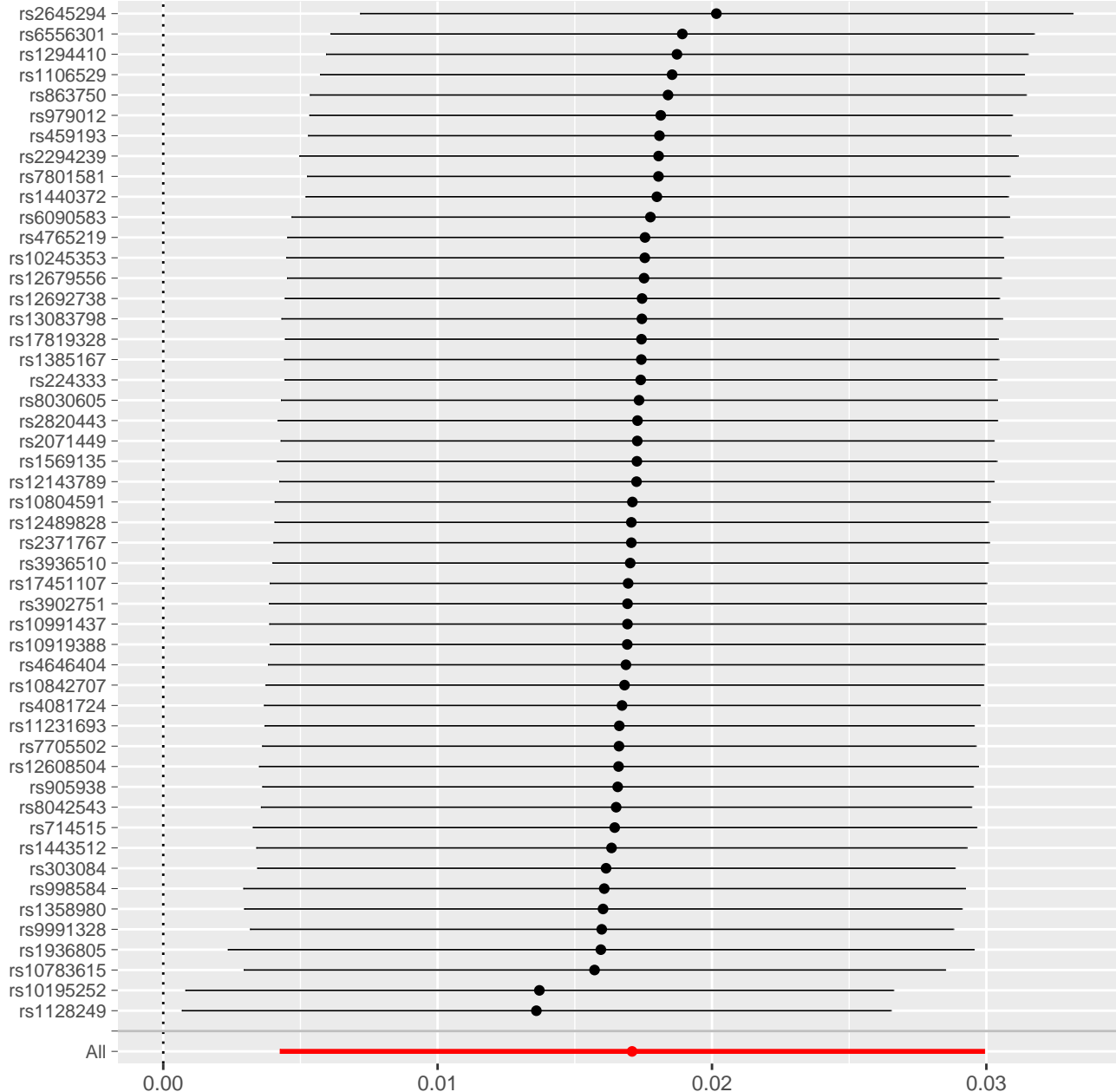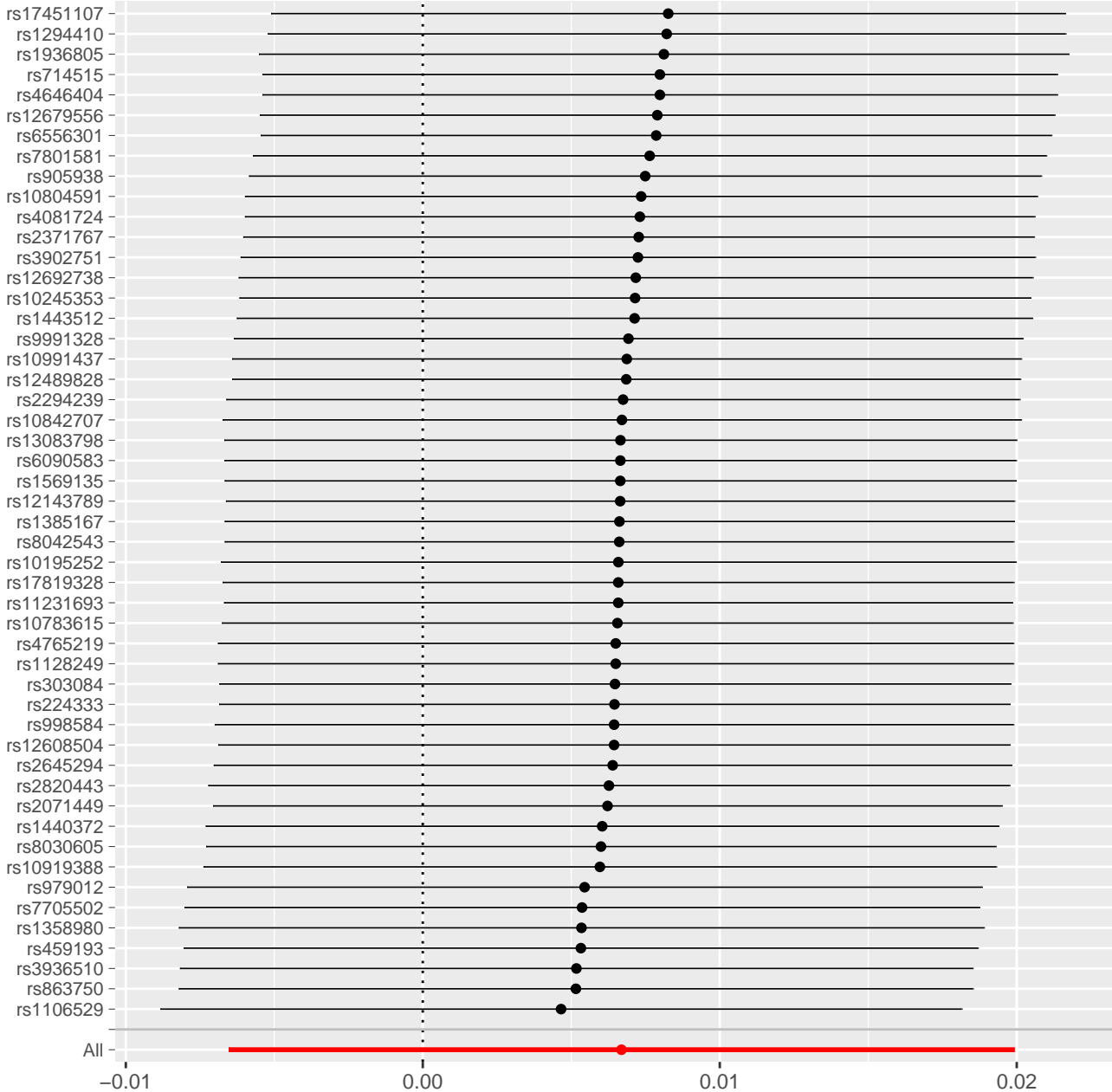MR leave−one−out sensitivity analysis for
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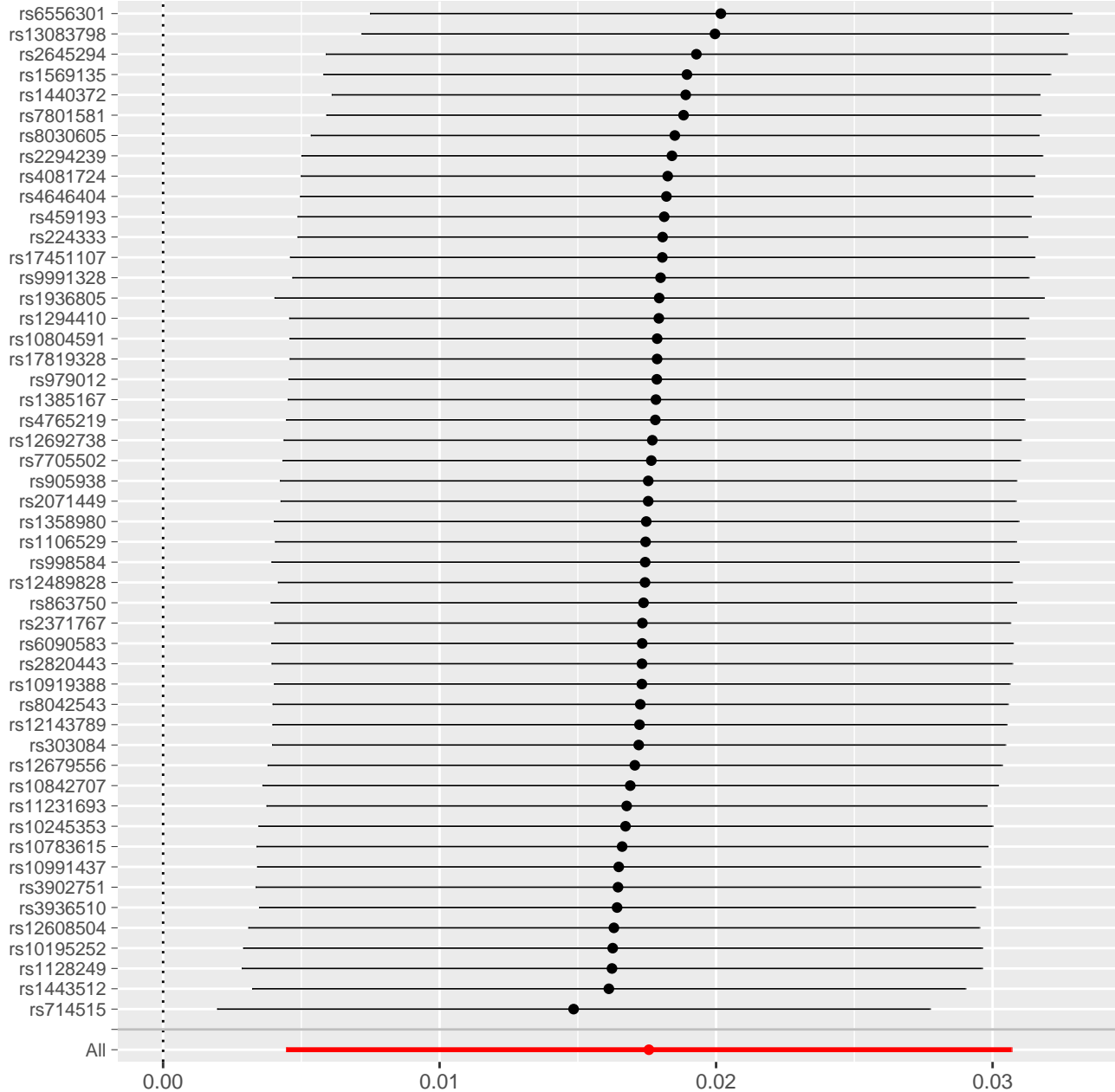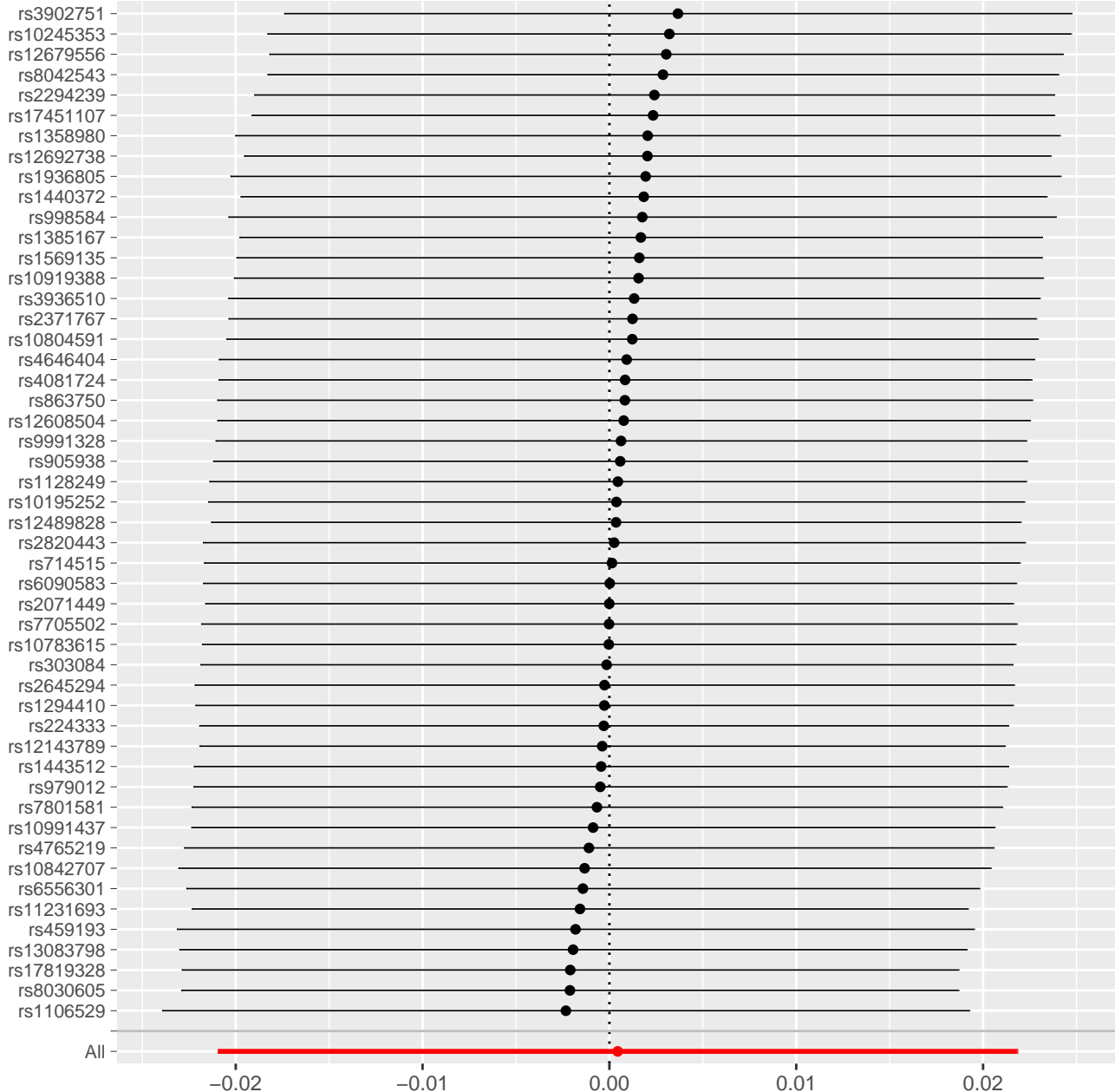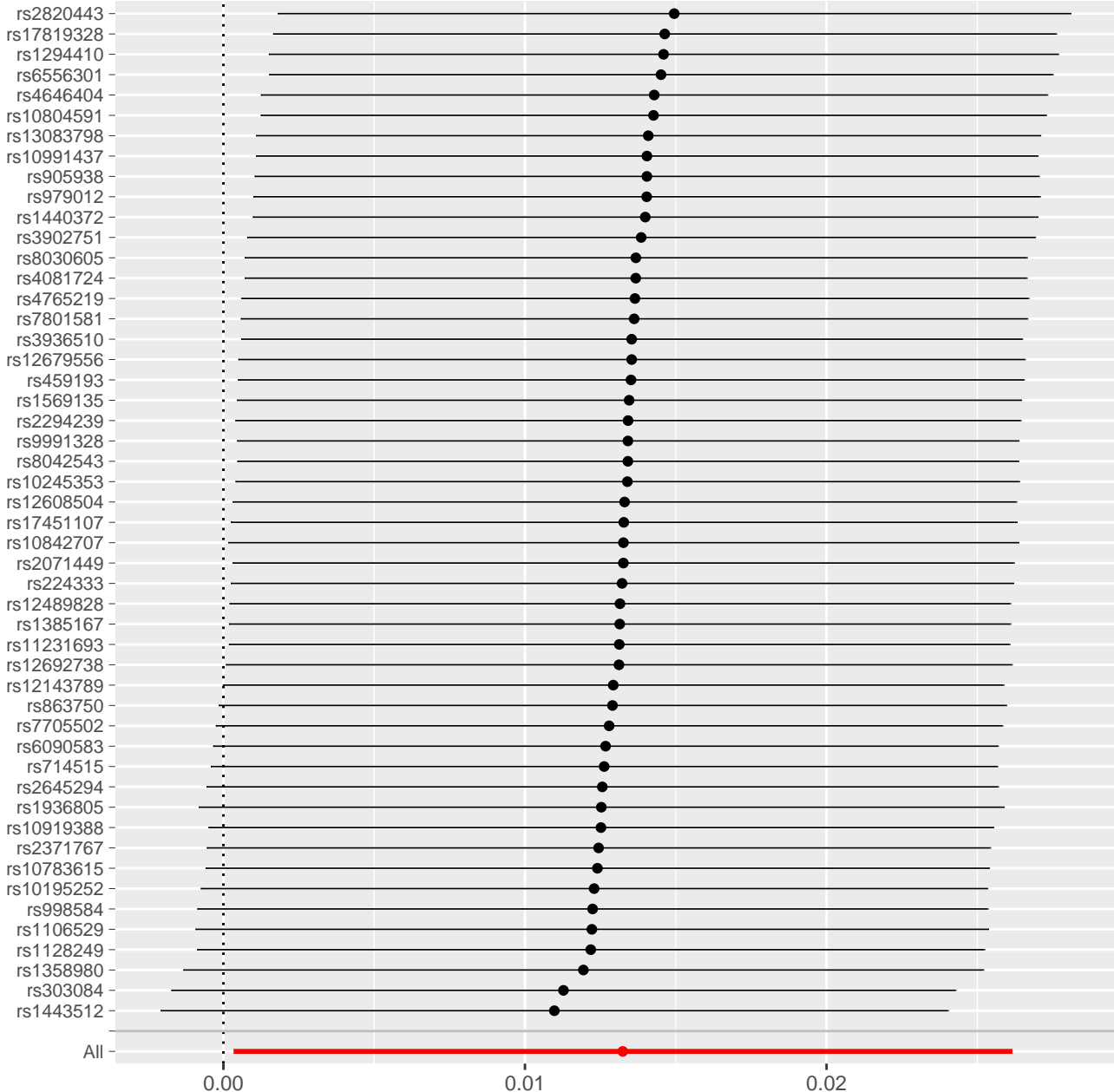'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Histidine || id:305'
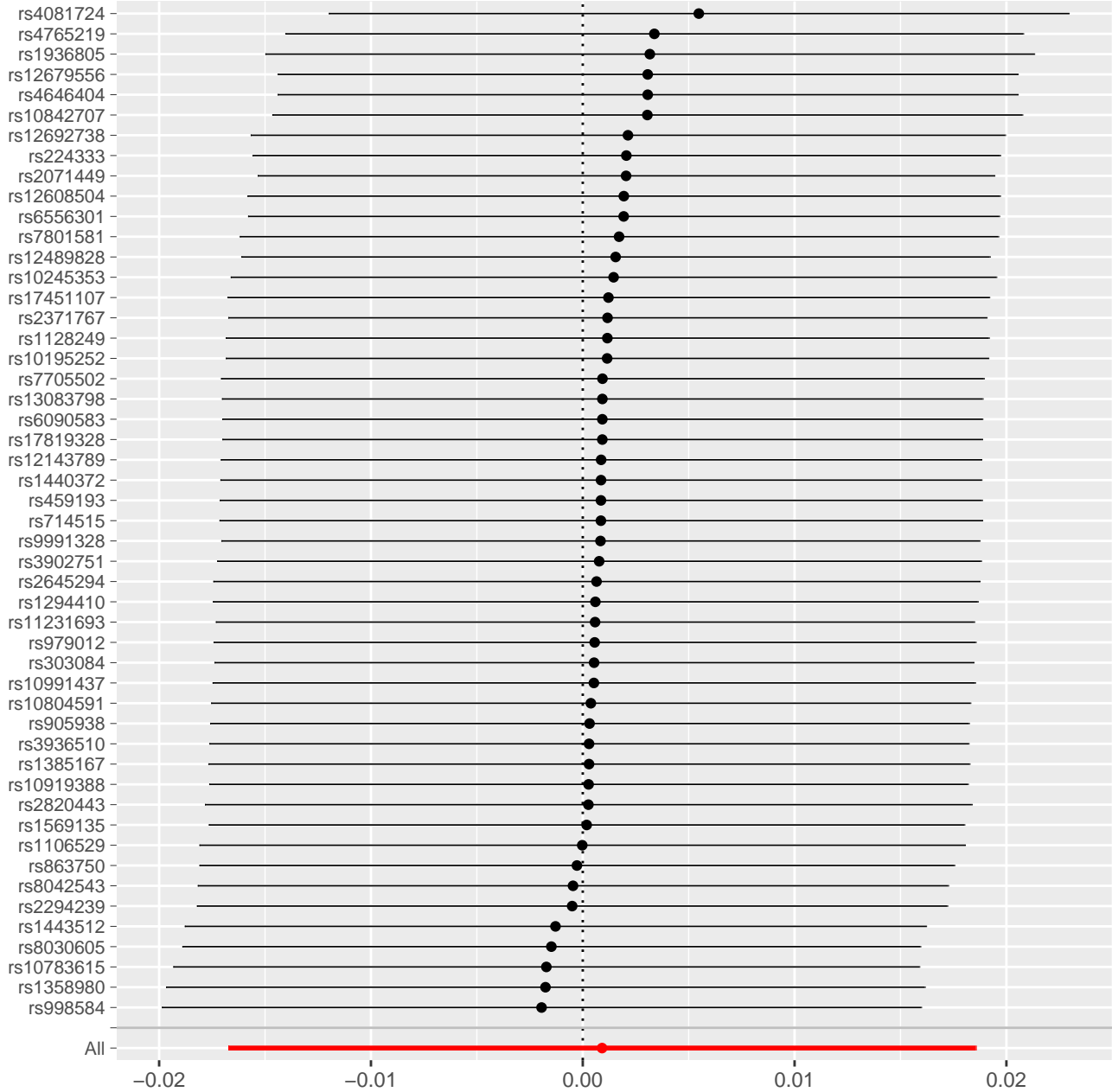
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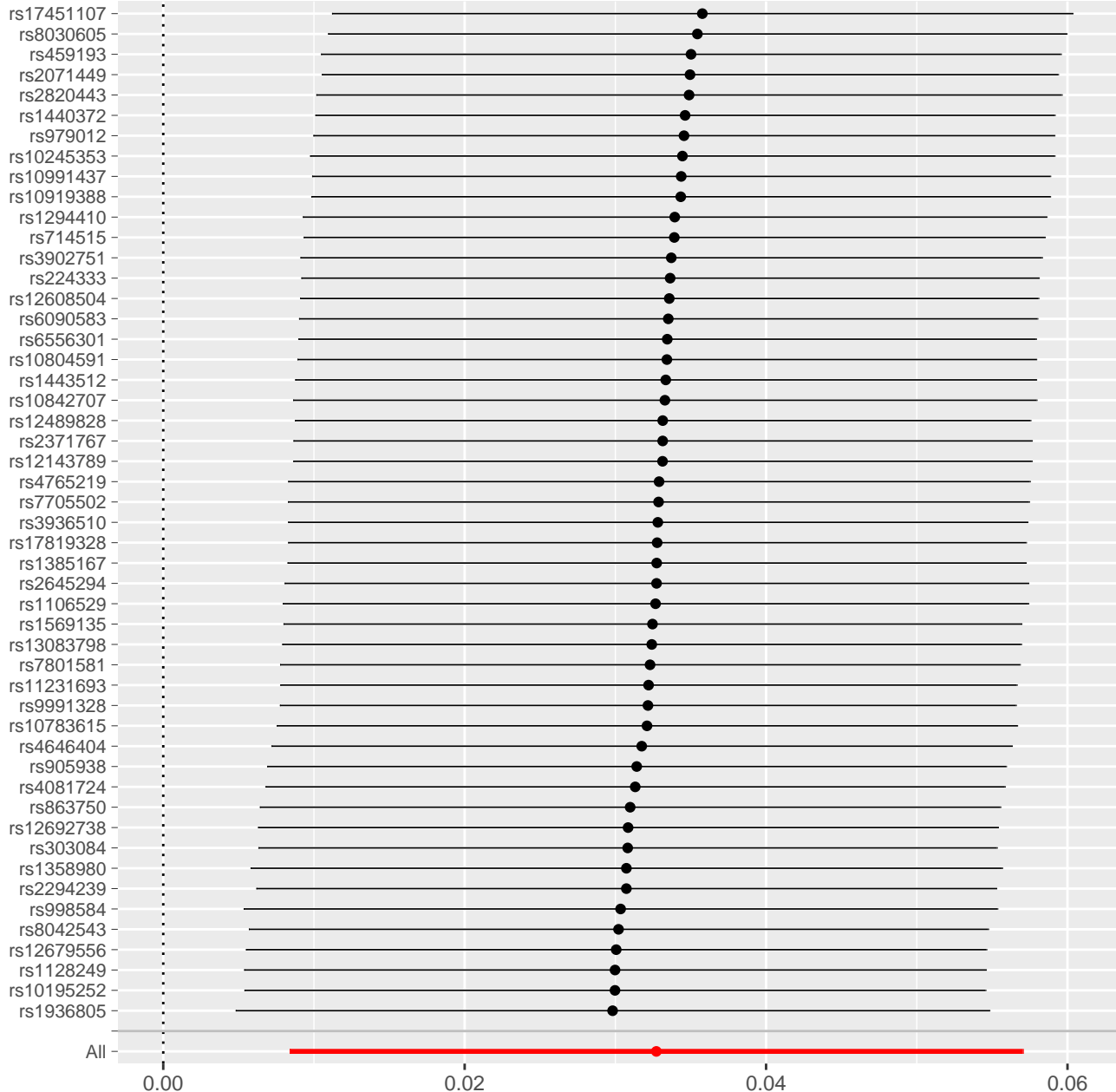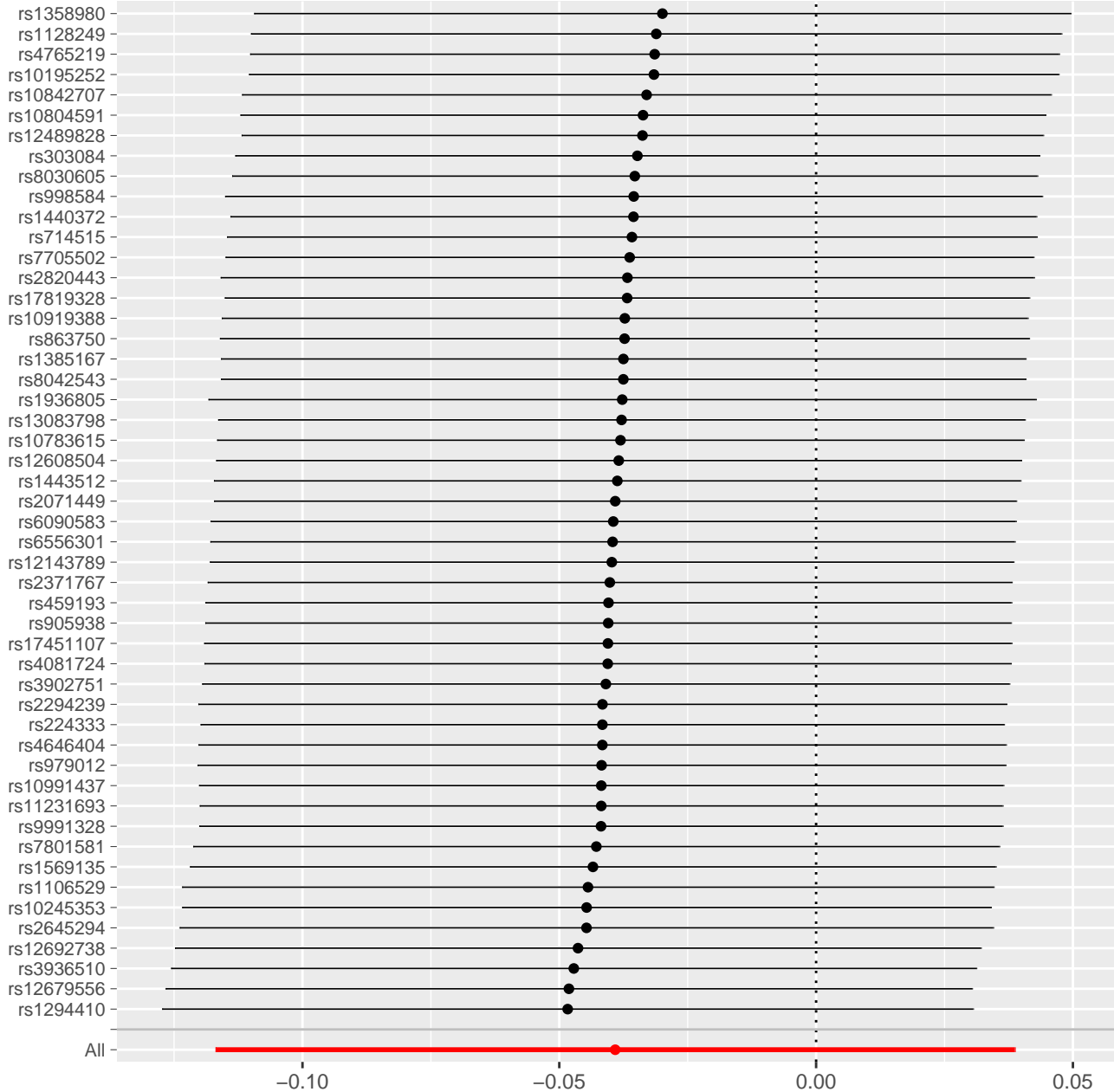
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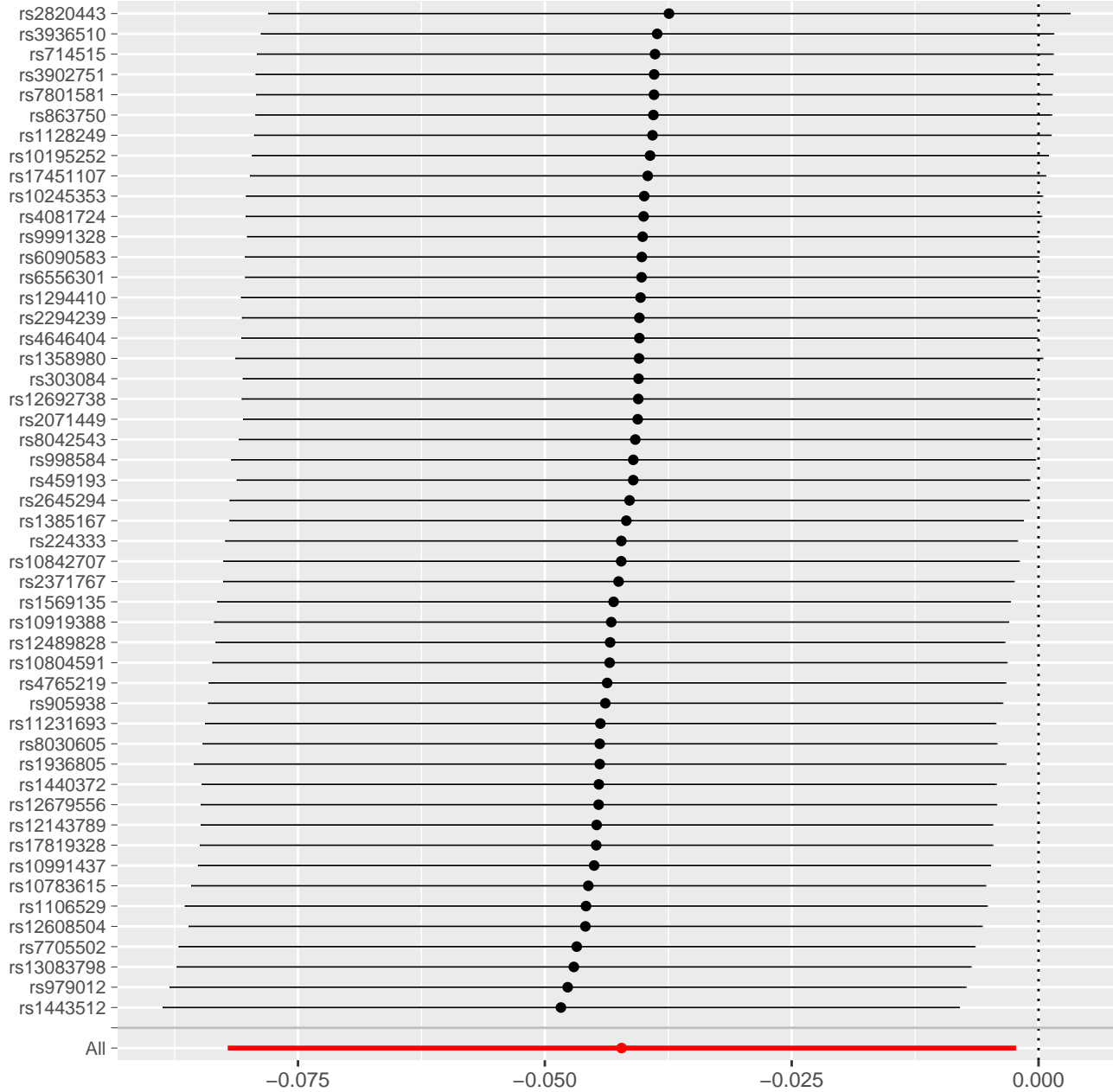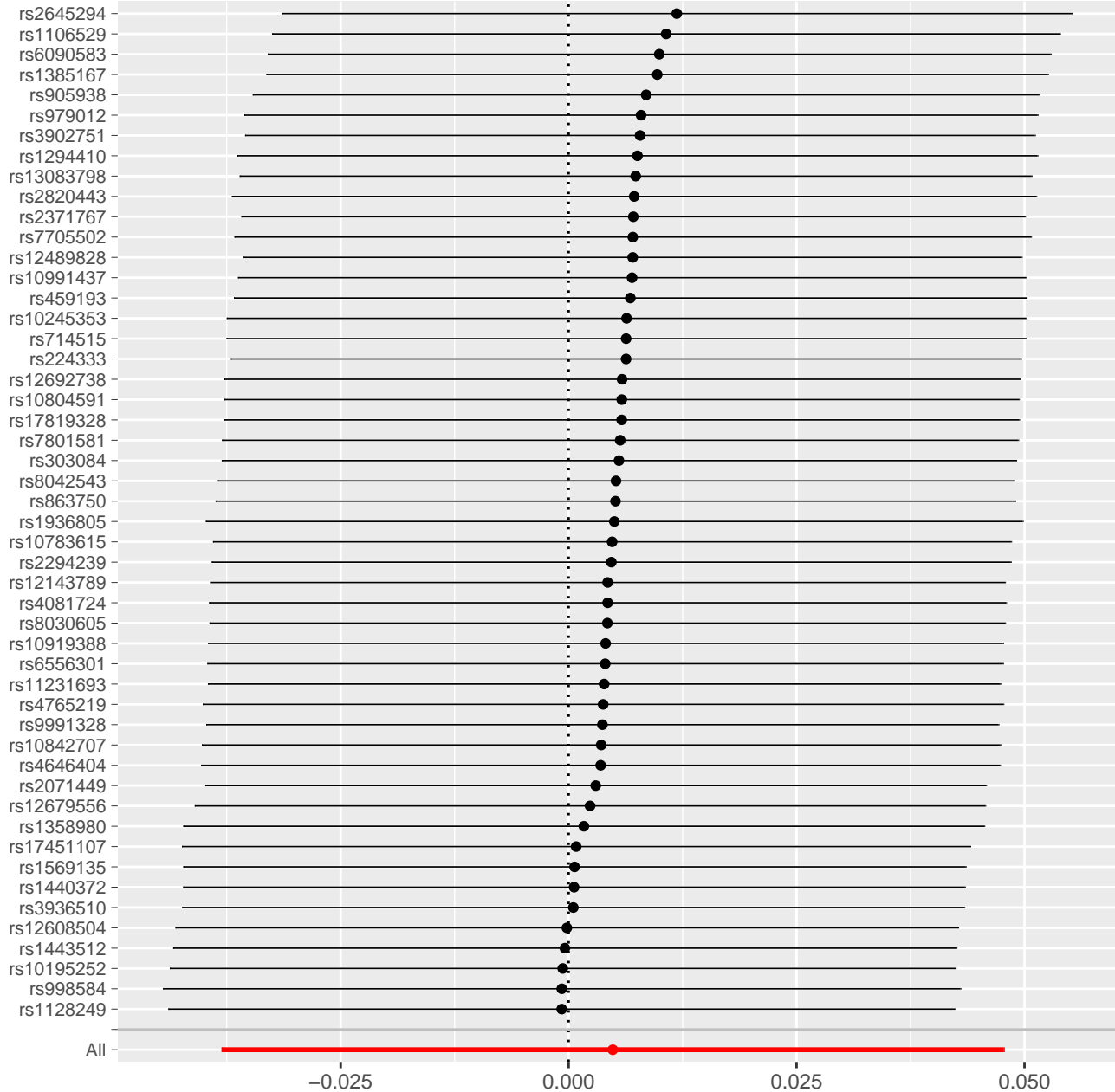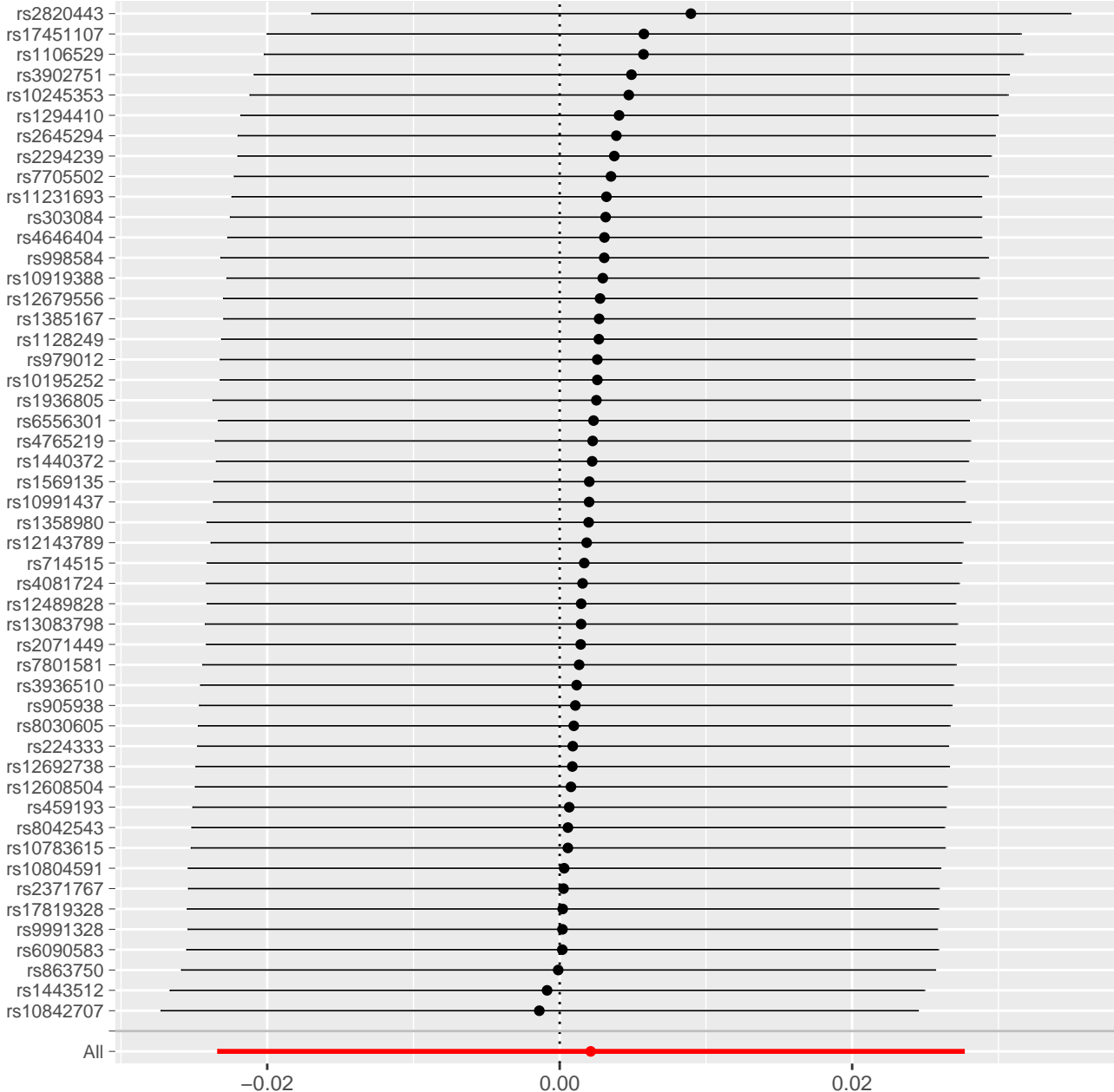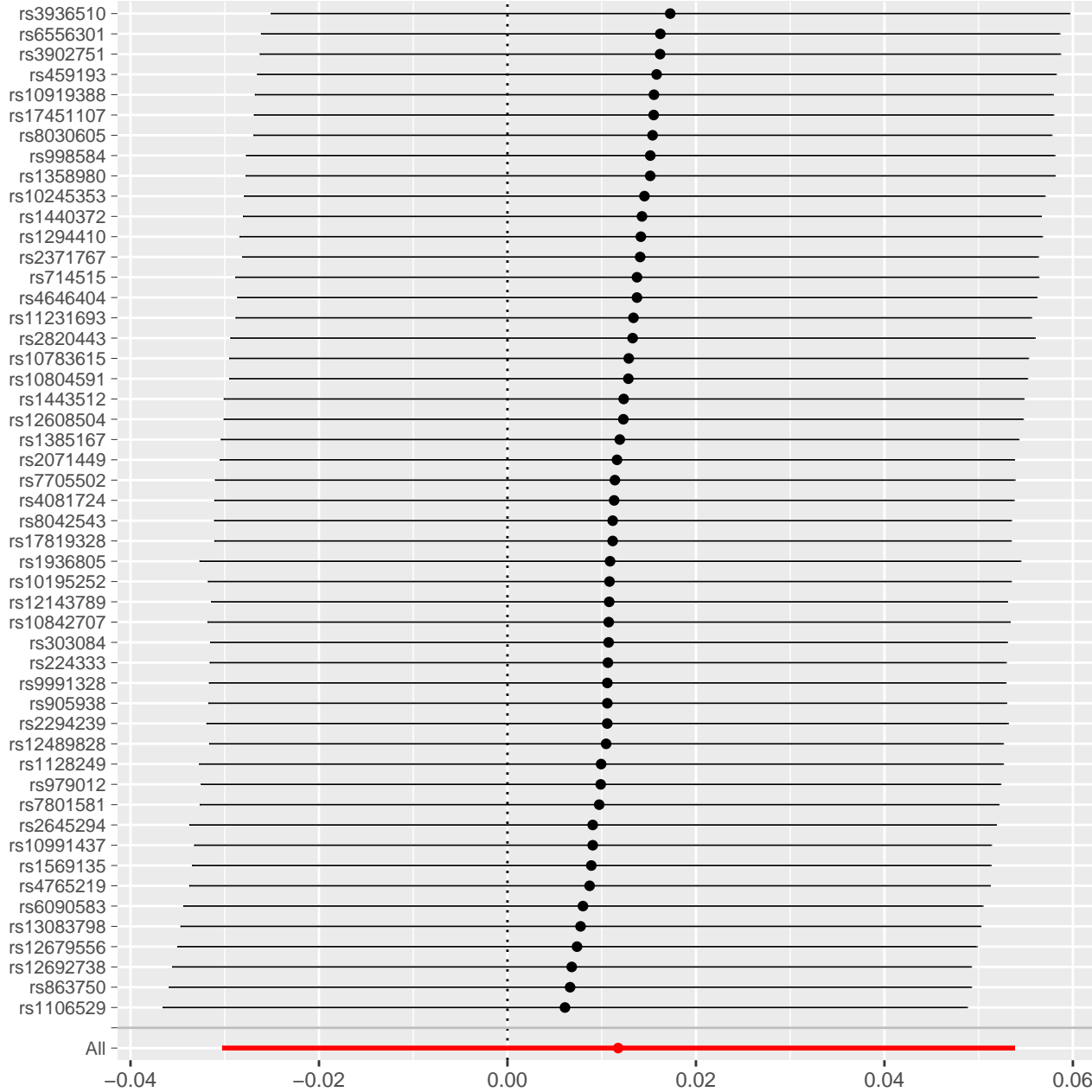'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Fructose || id:313'

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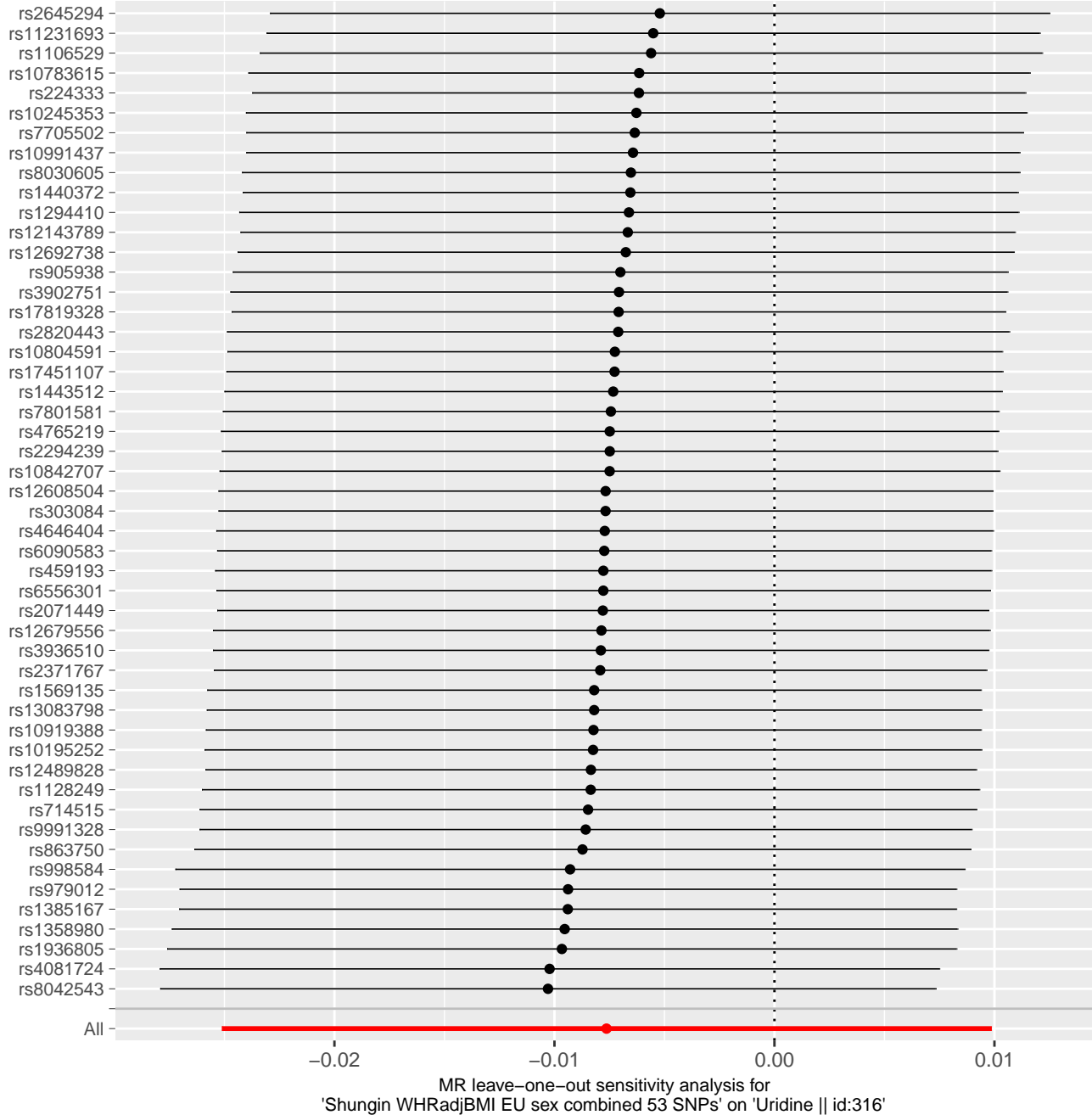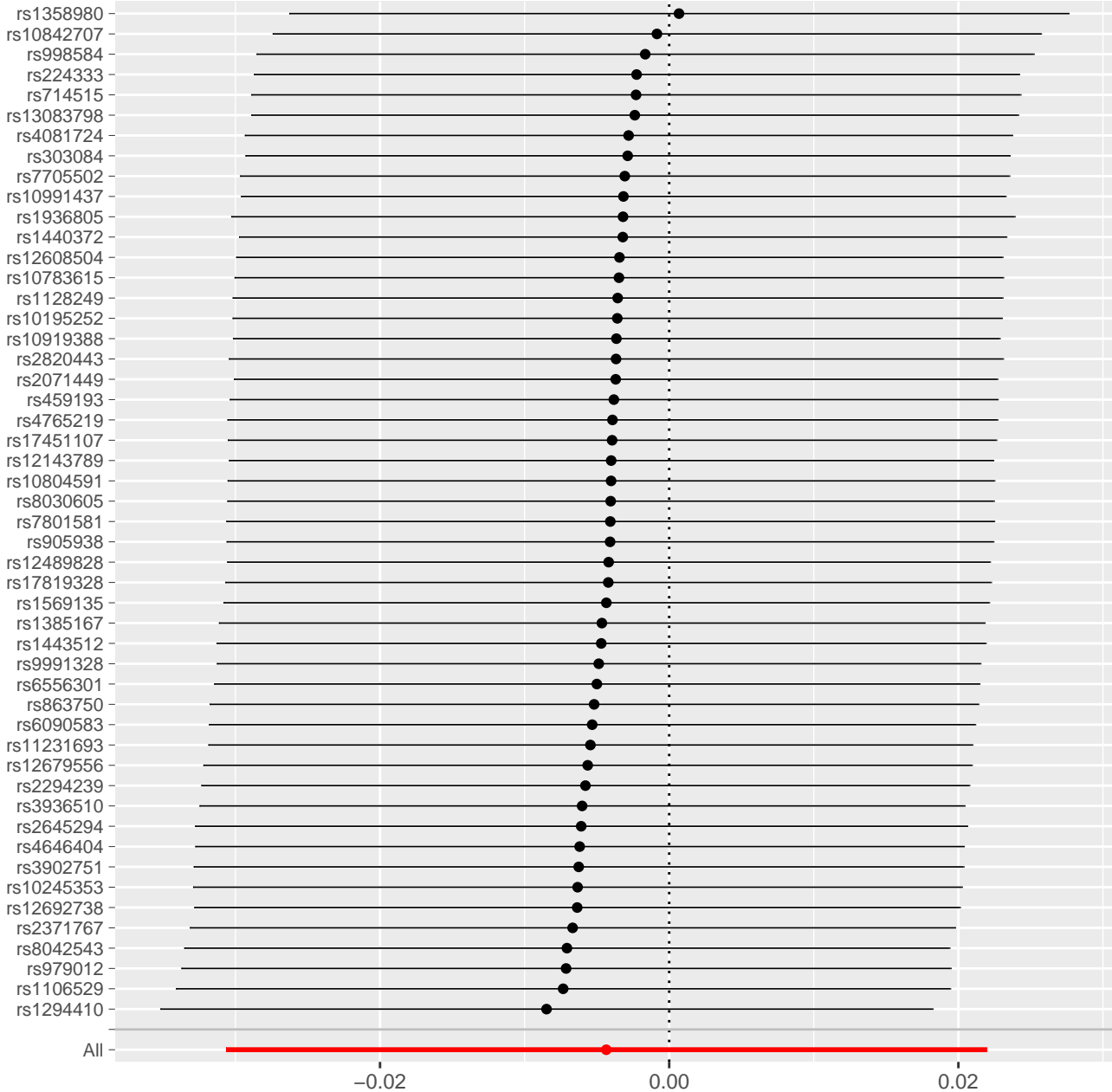'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Pyruvate || id:315'

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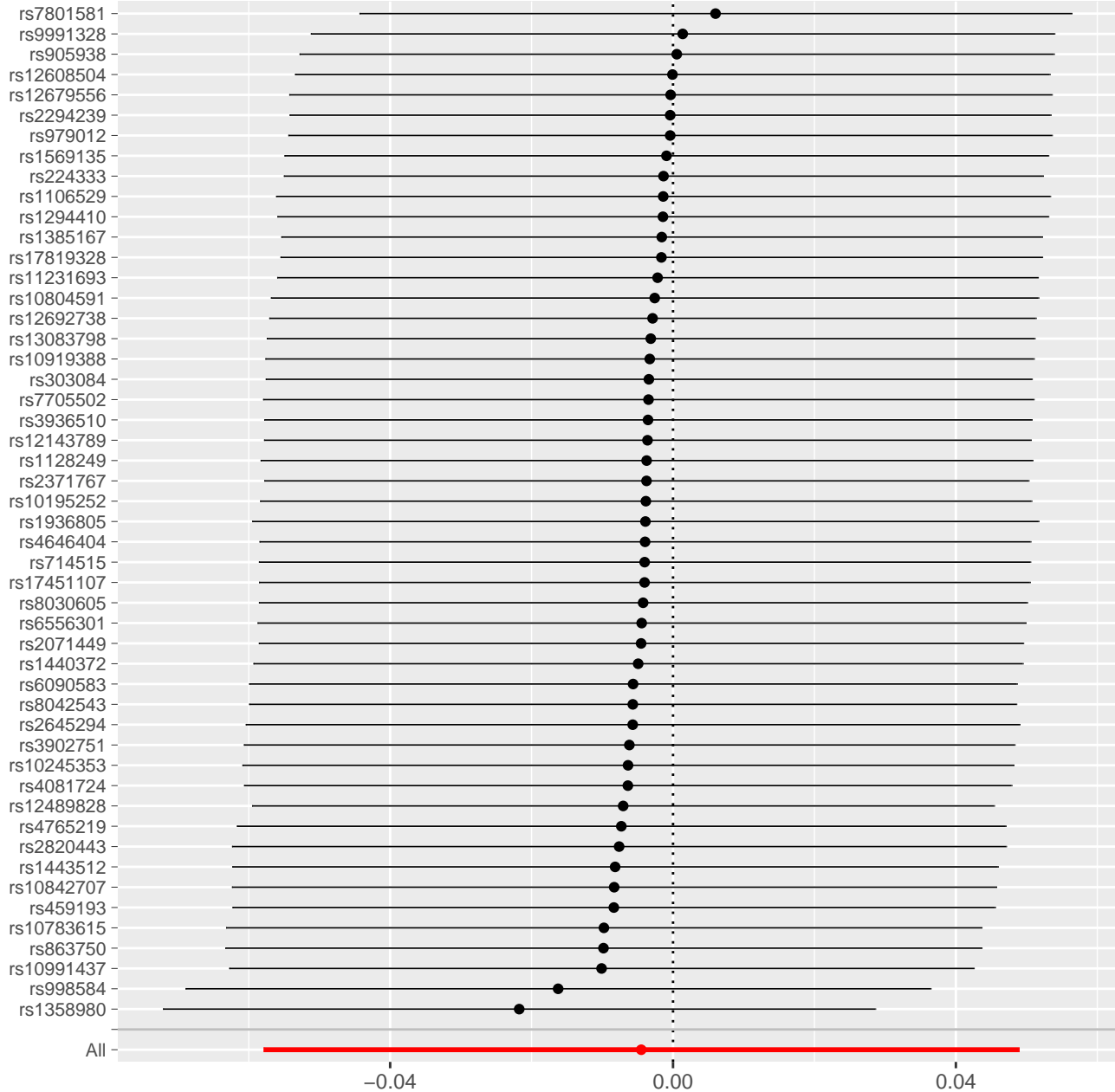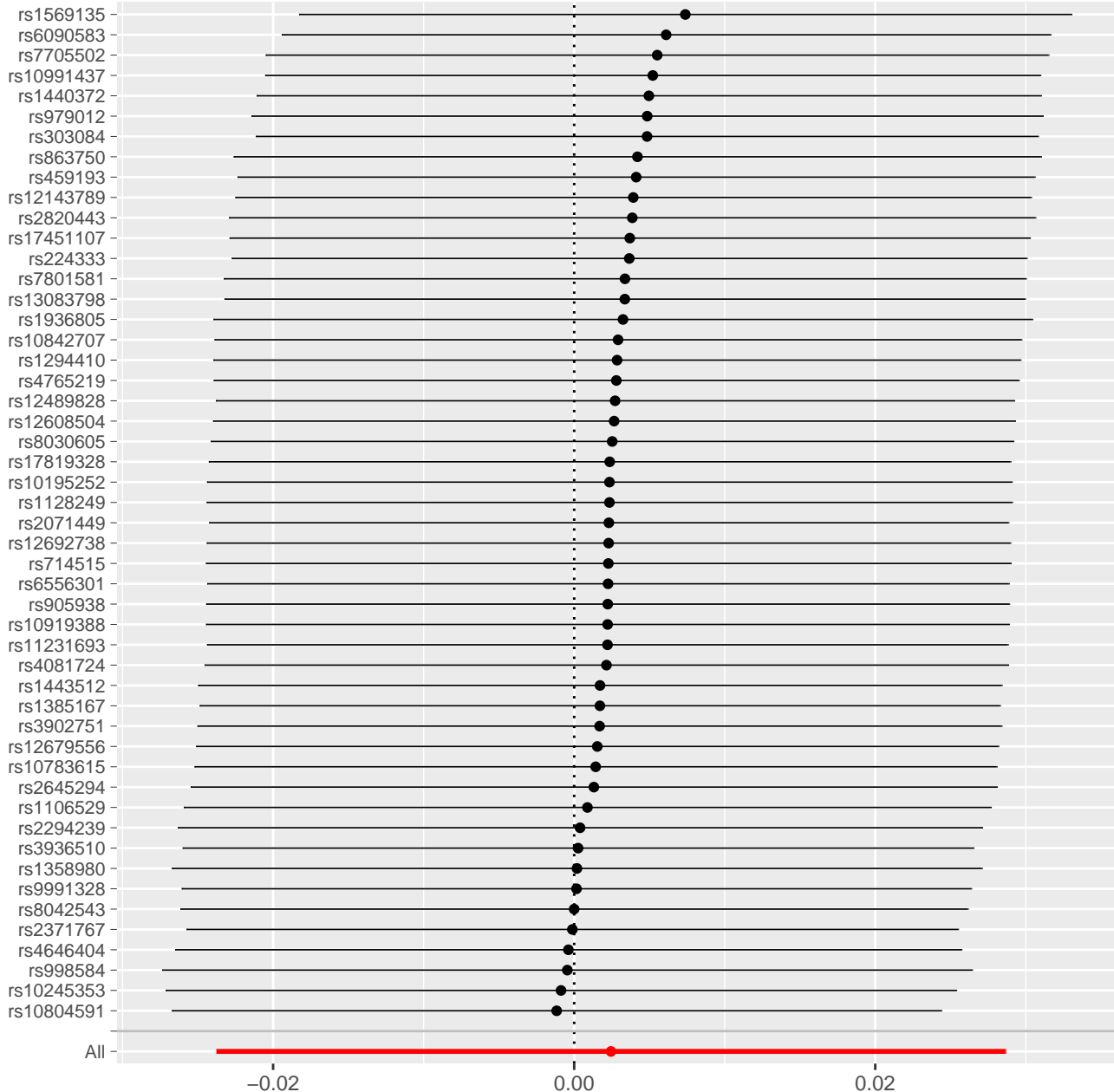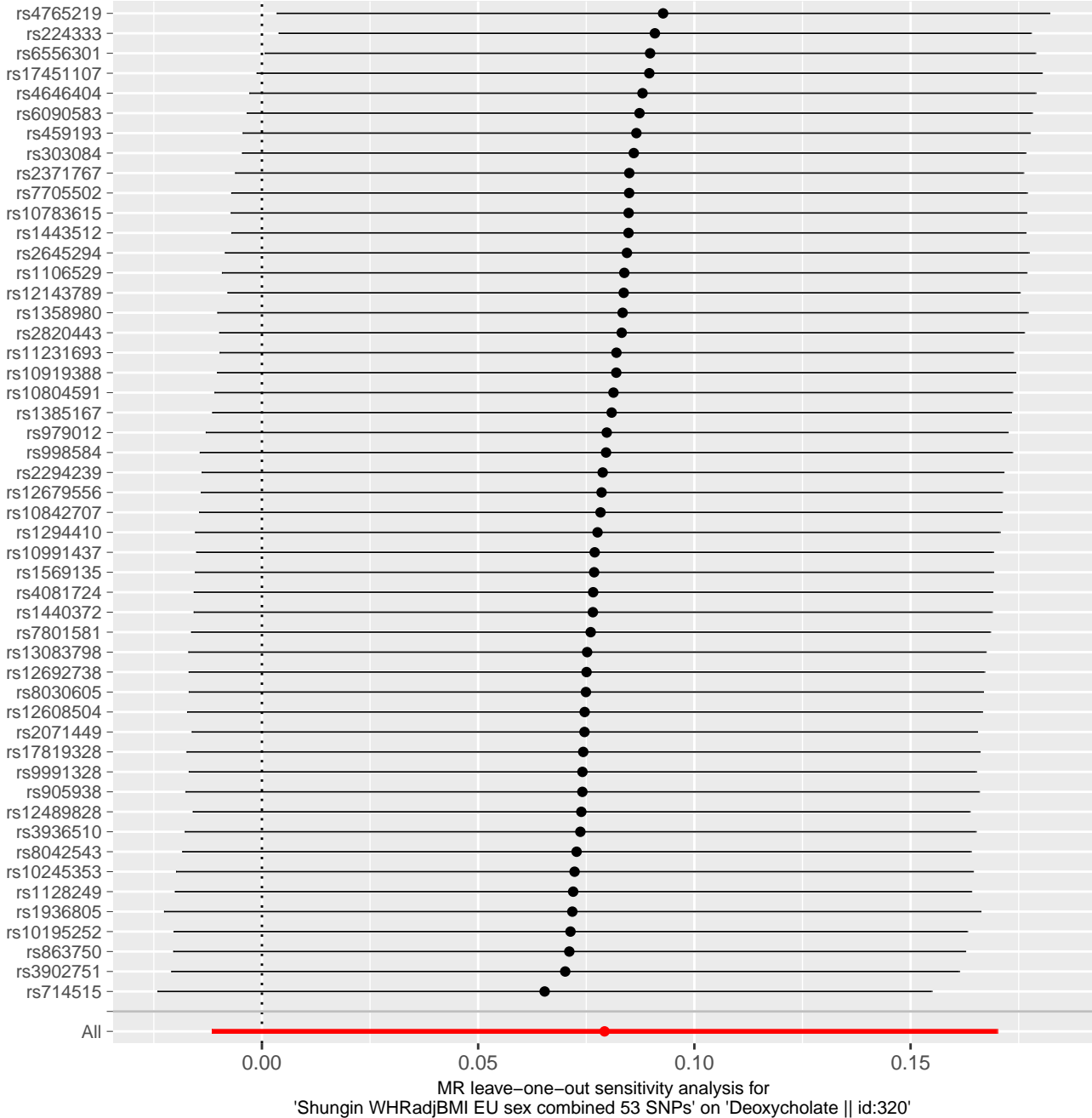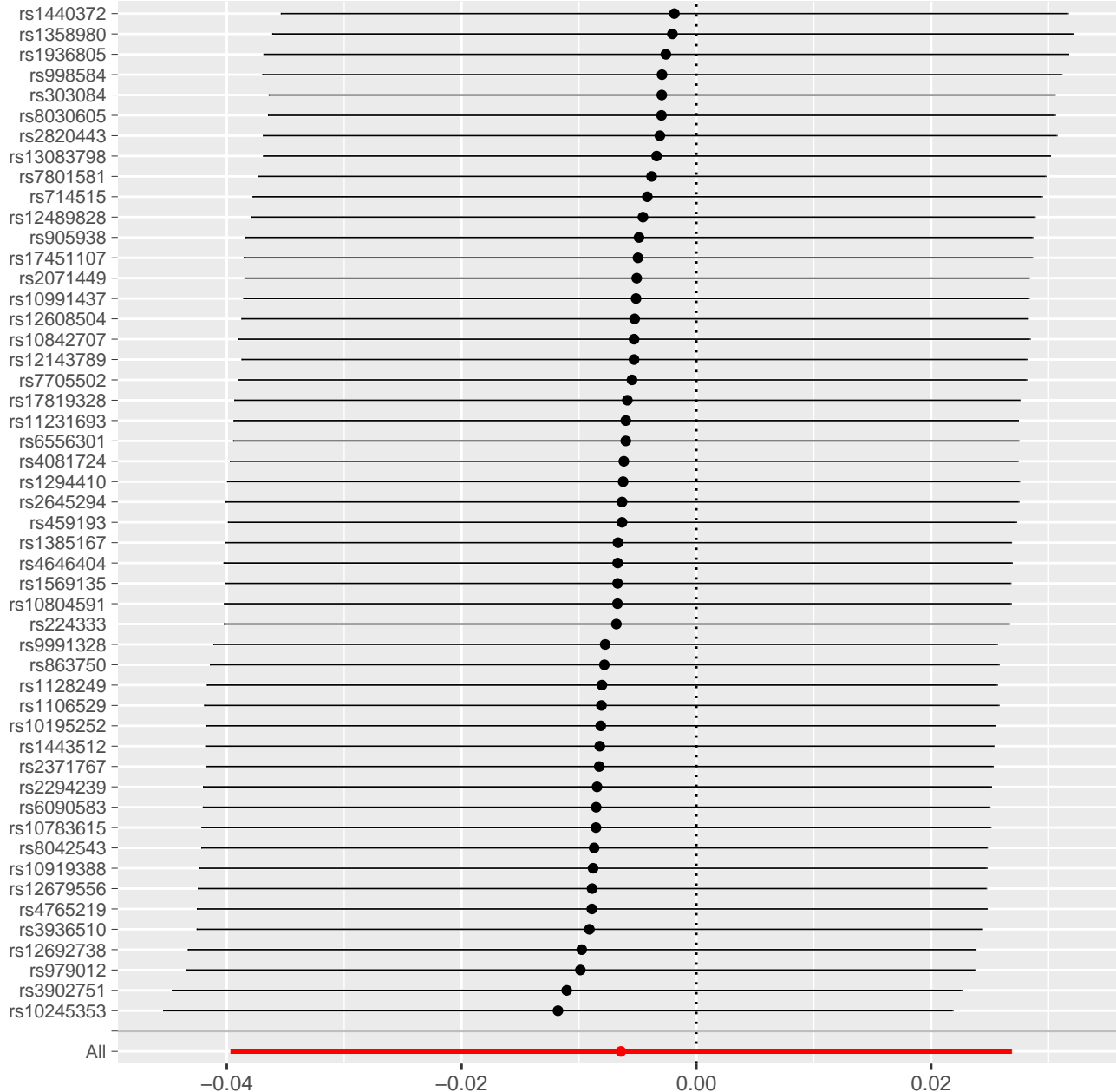'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Linoleate (18:2n6) || id:317'

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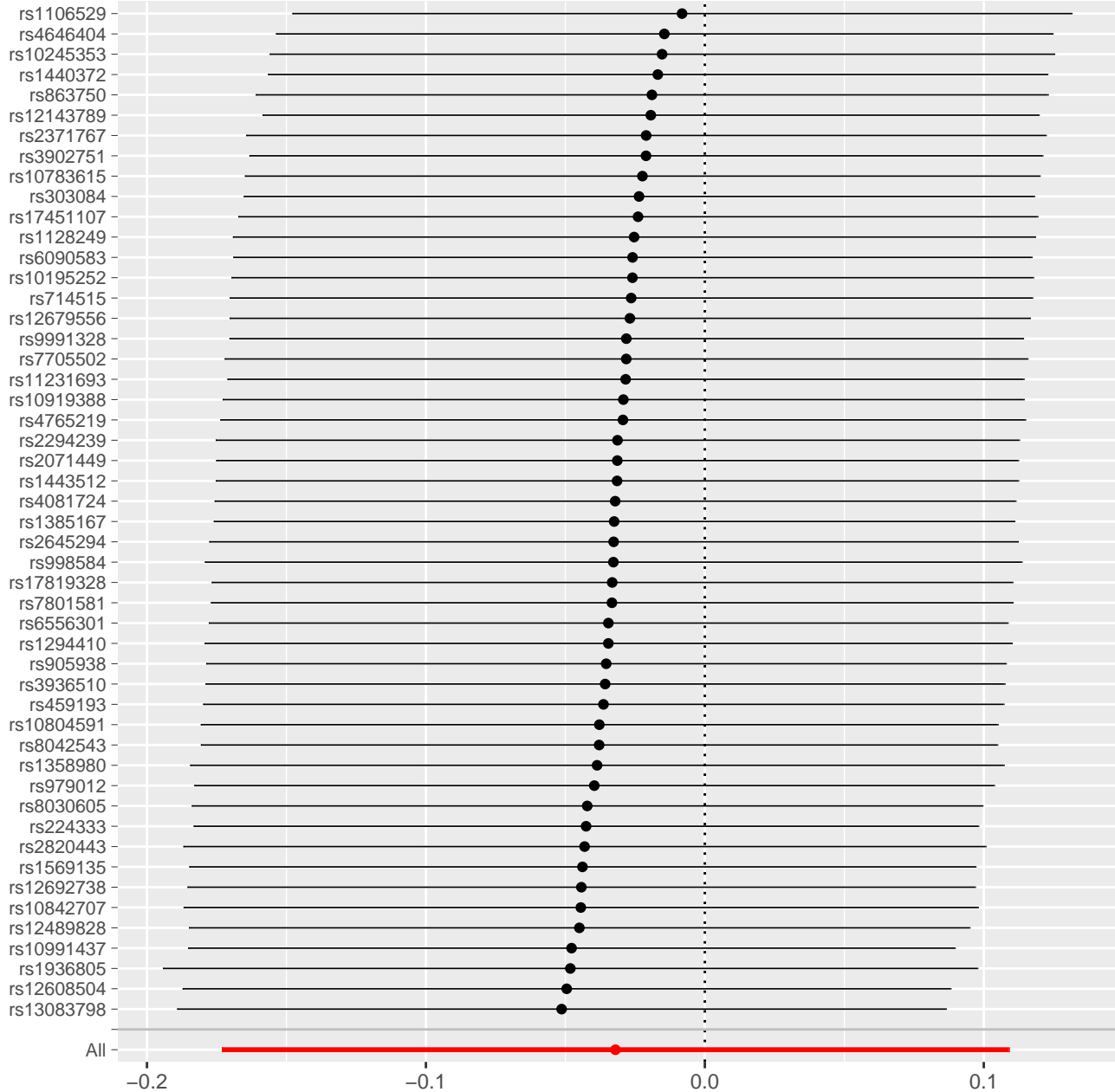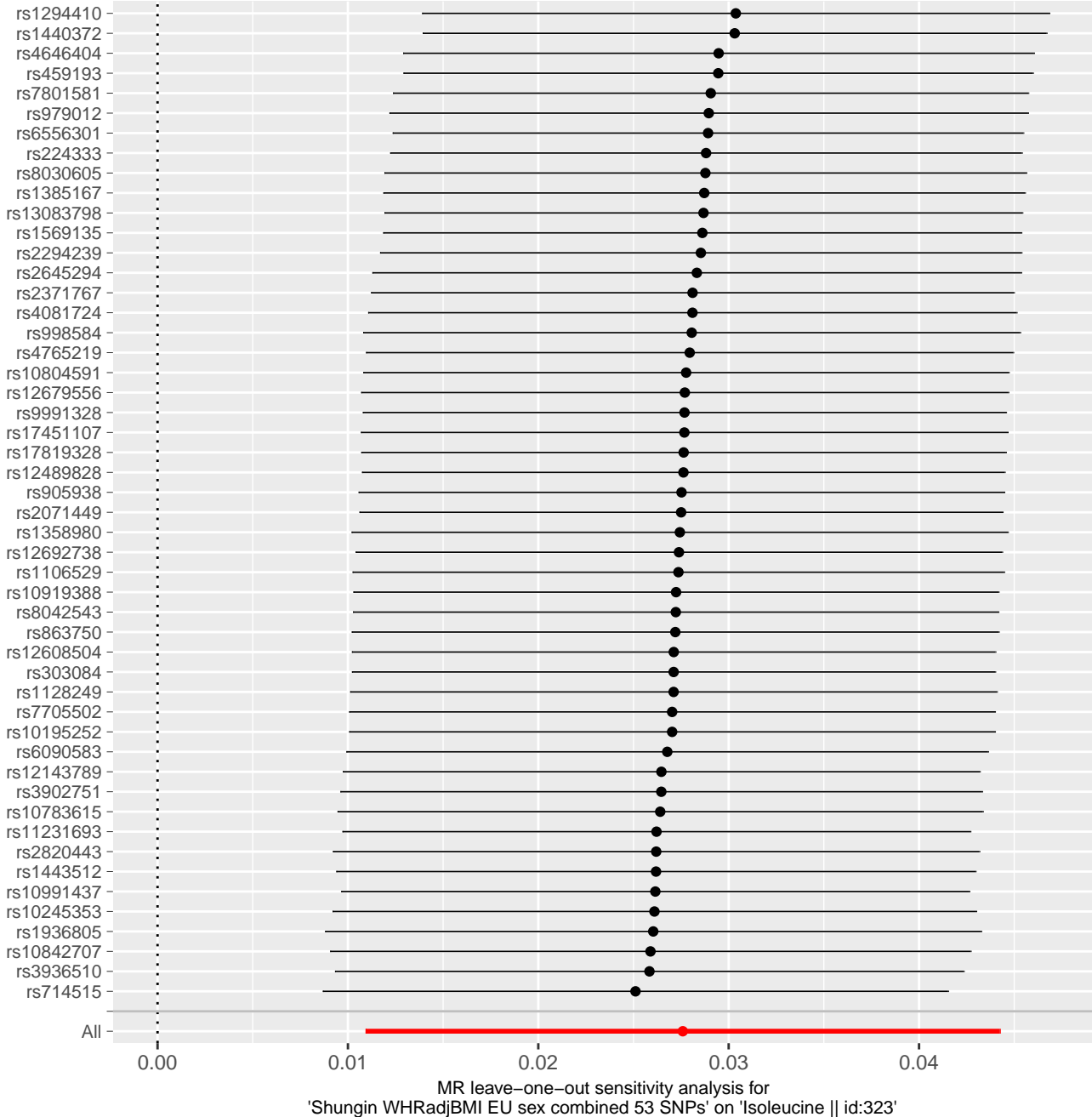'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Allantoin || id:318'

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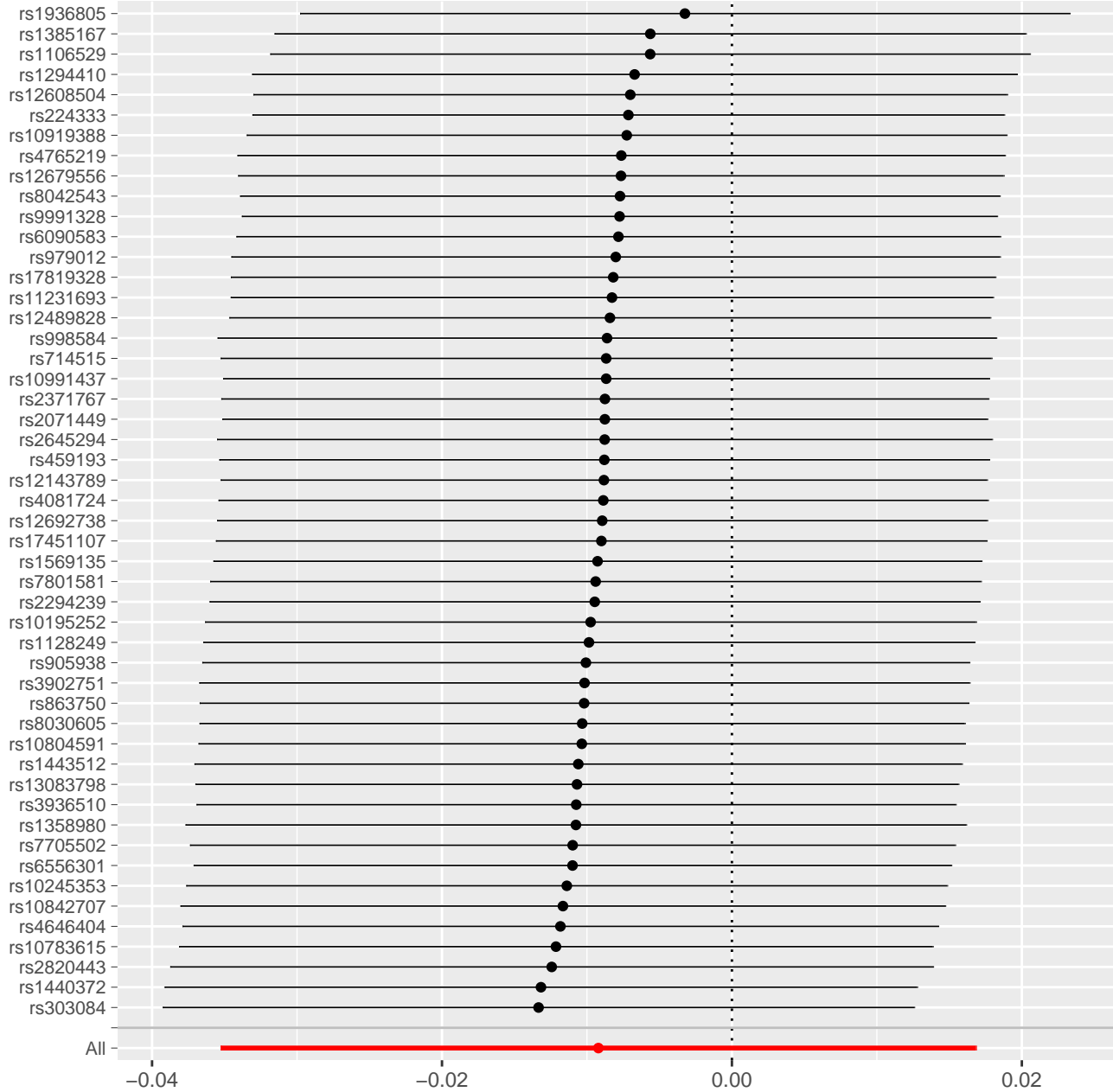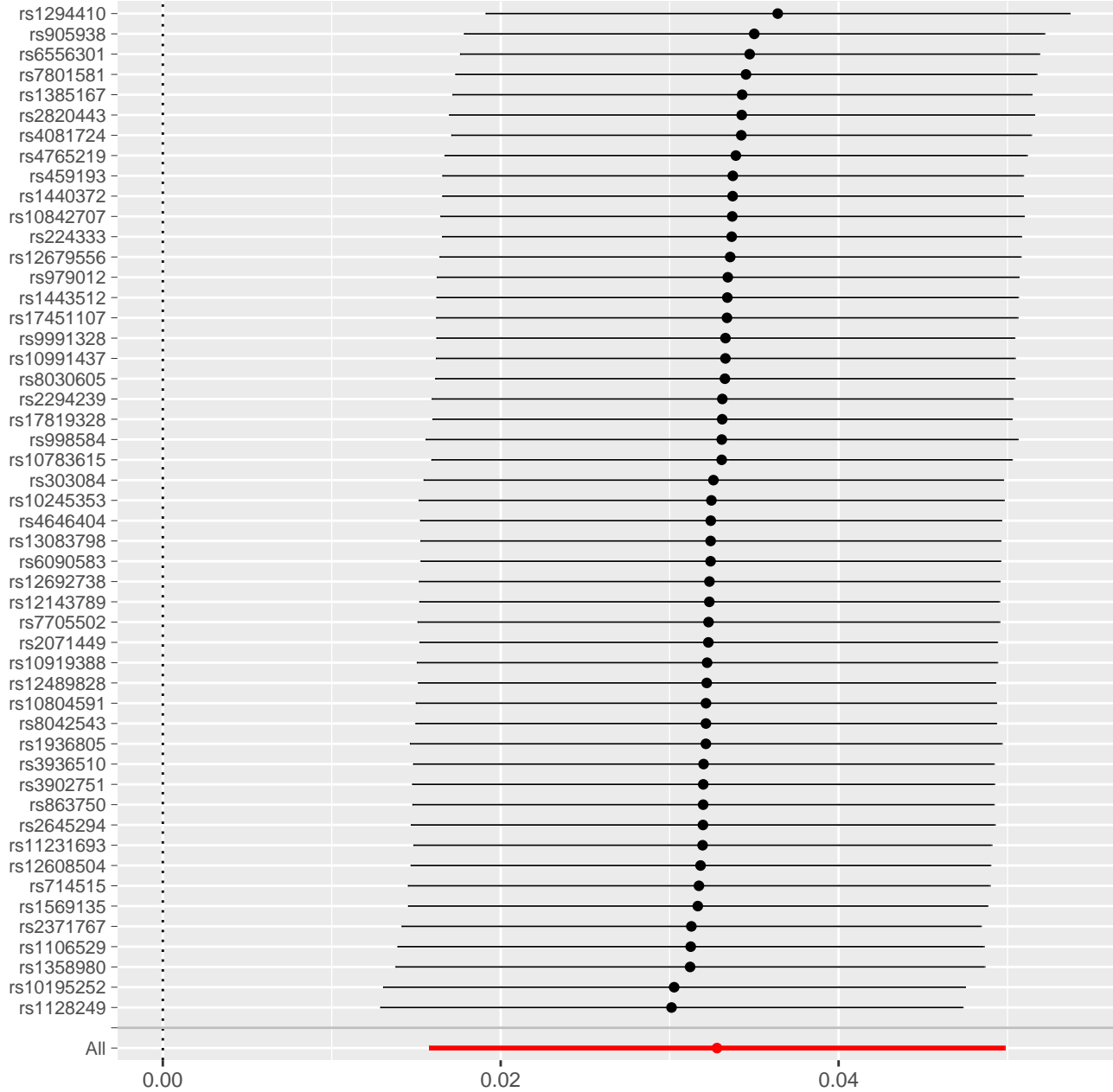
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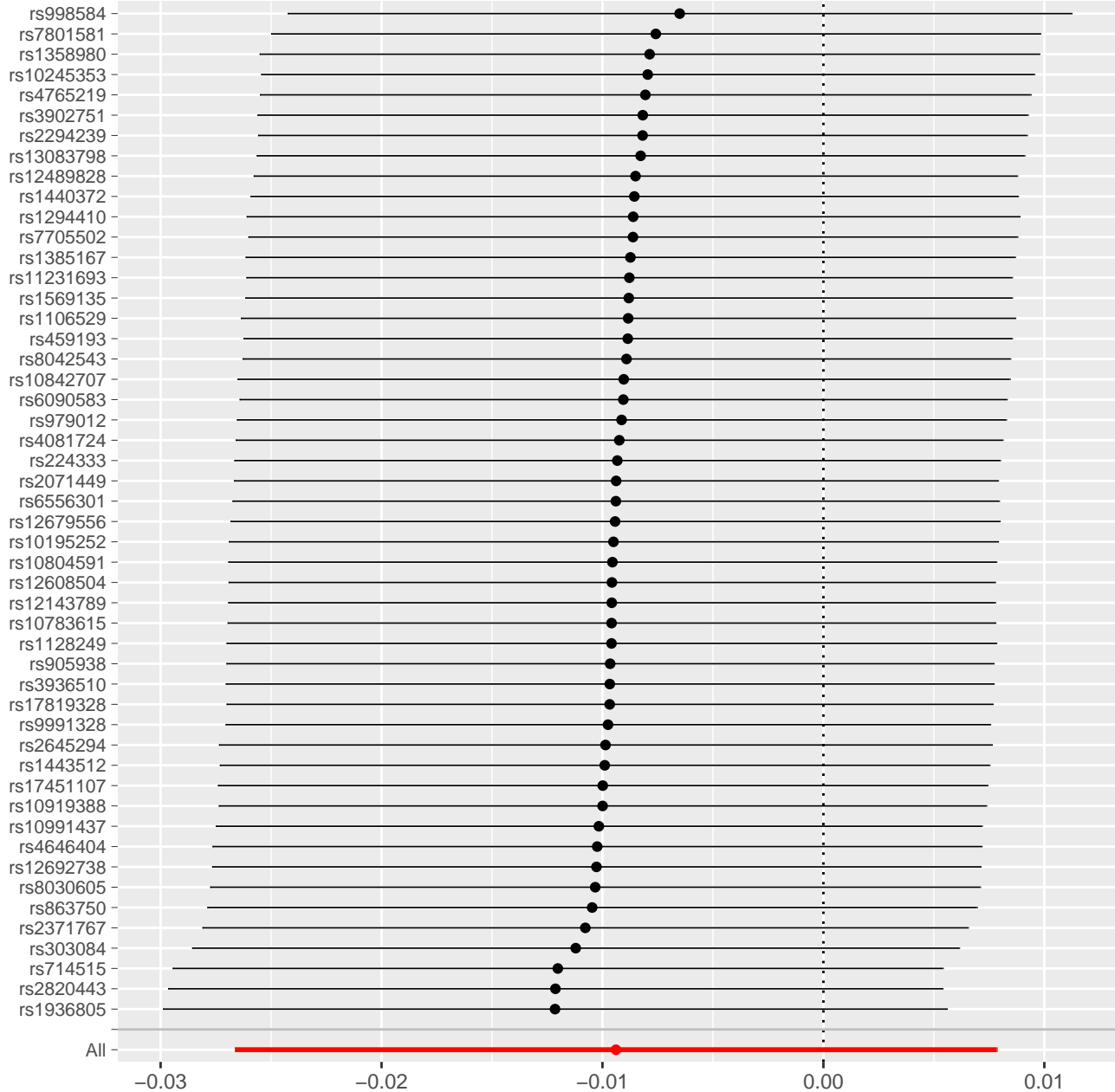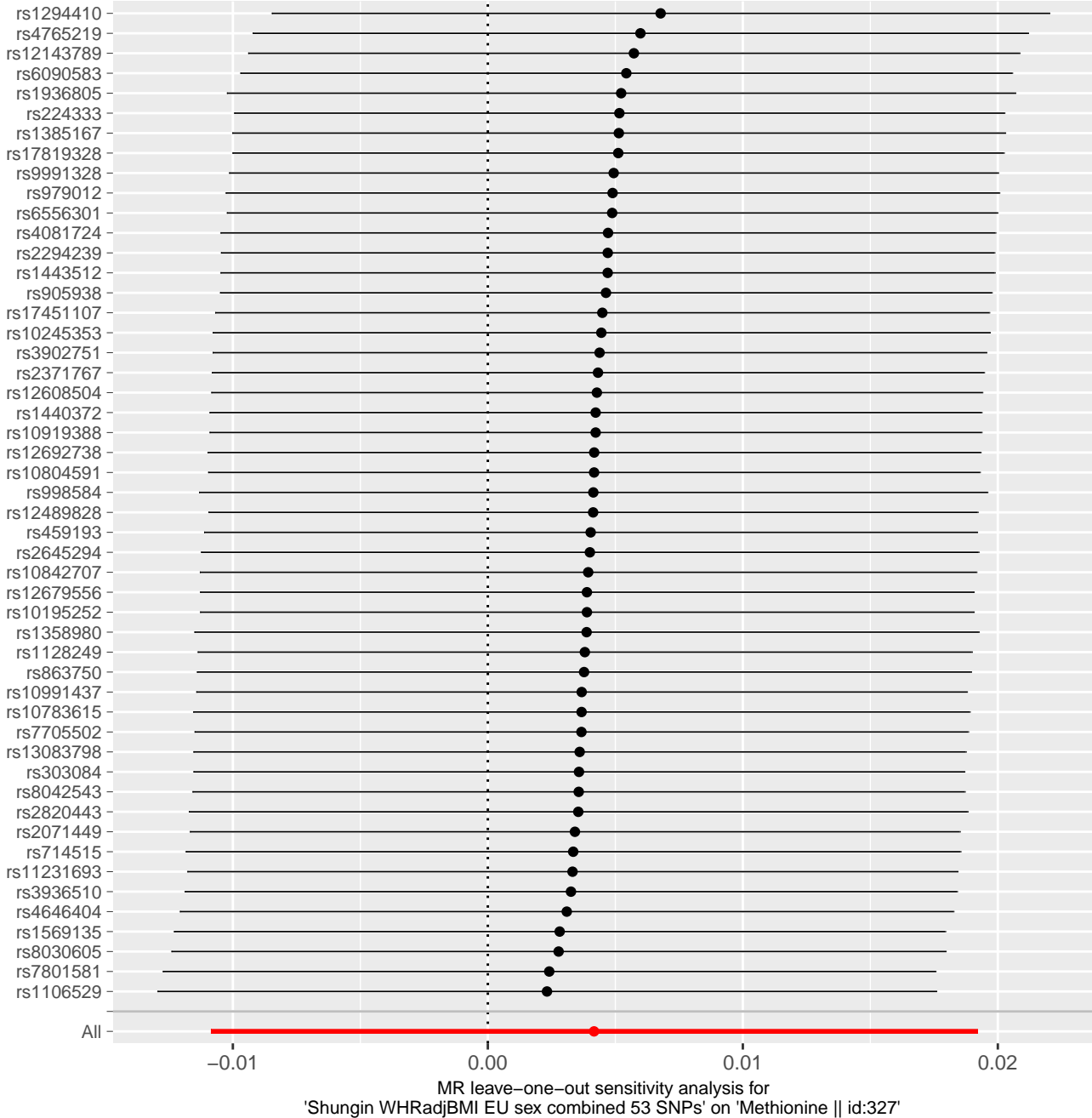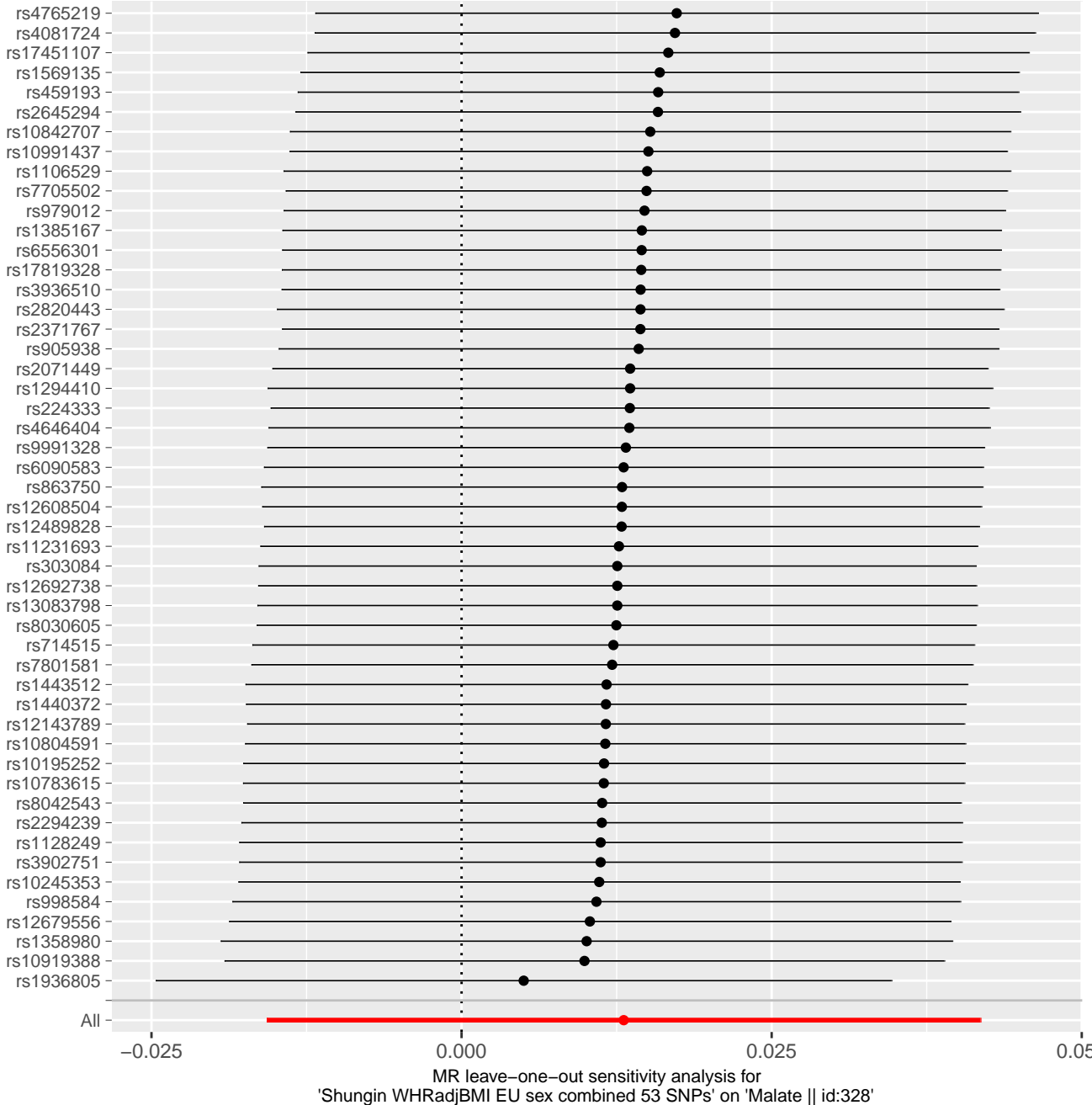'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Threonine || id:324'

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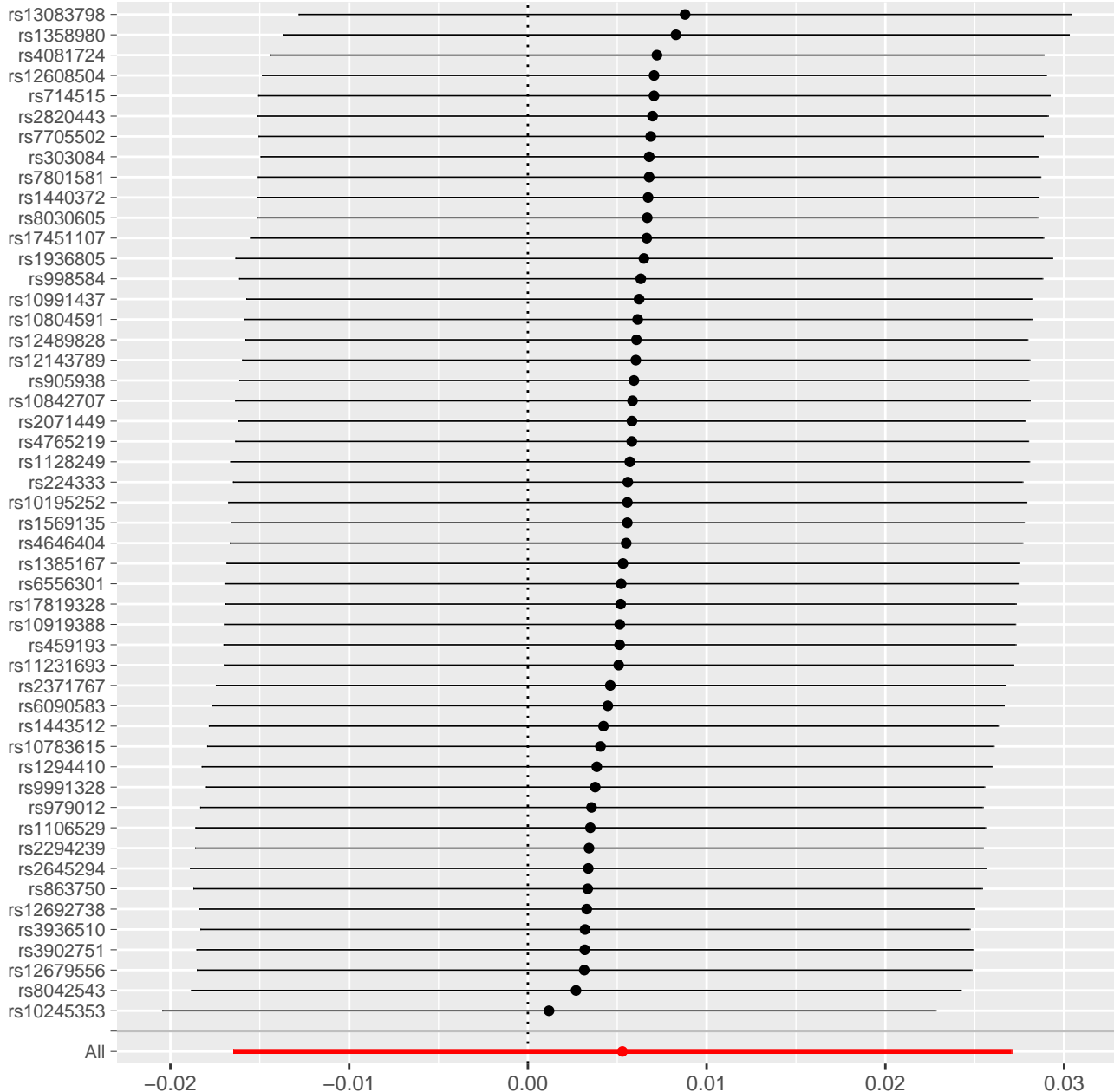'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Tyrosine || id:325'

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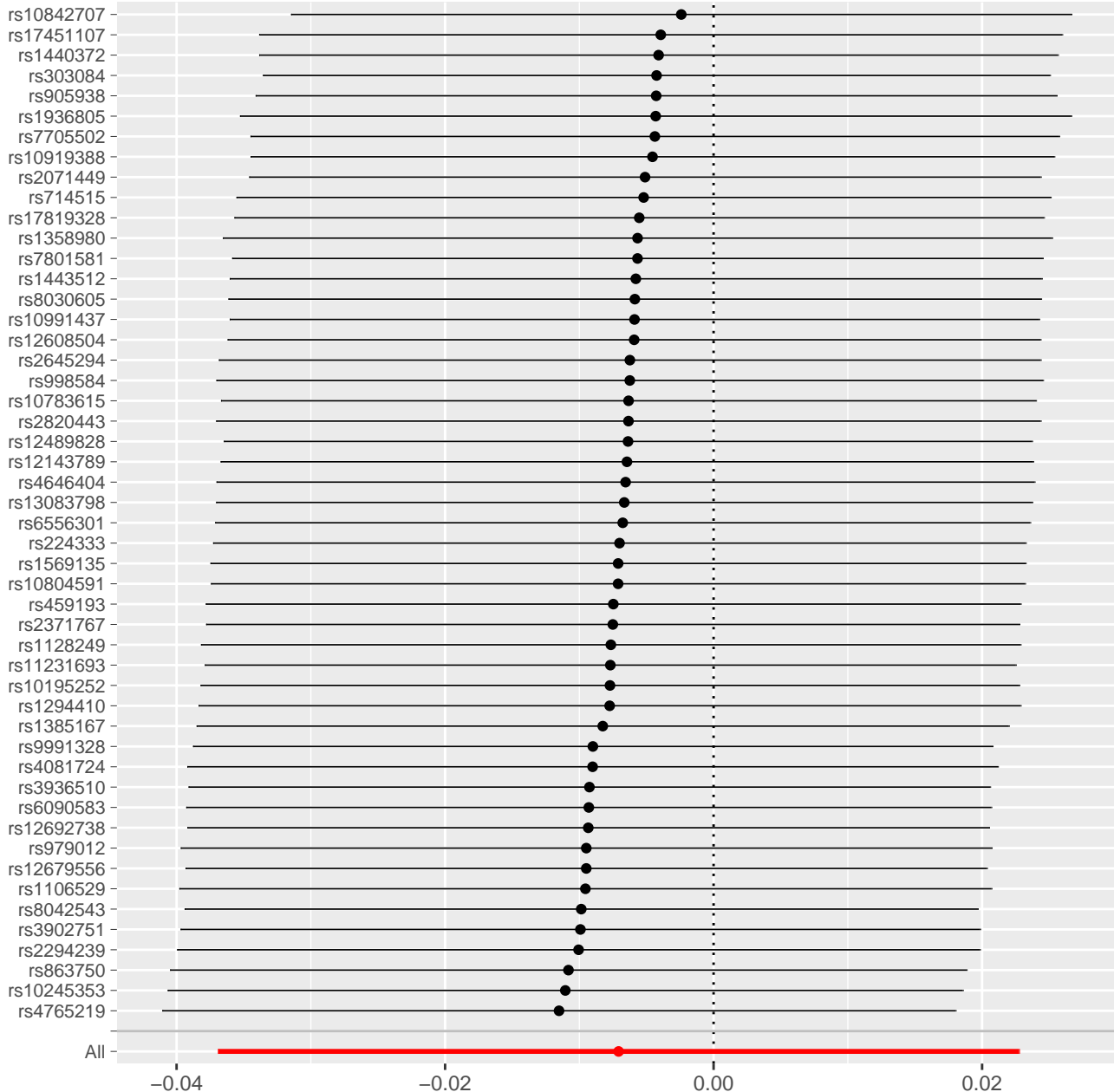'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Methionine || id:327'

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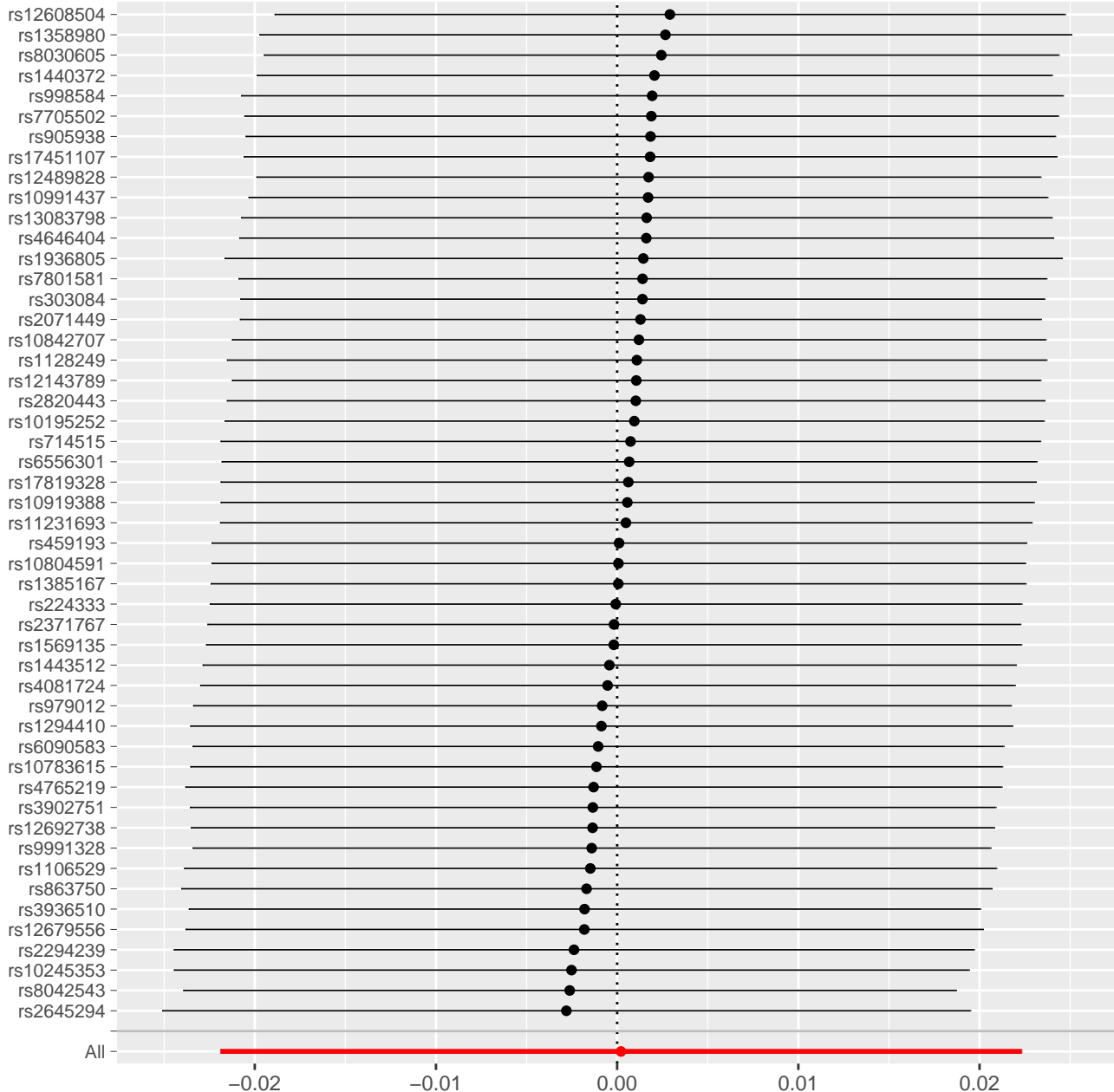'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Oleate (18:1n9) || id:332'
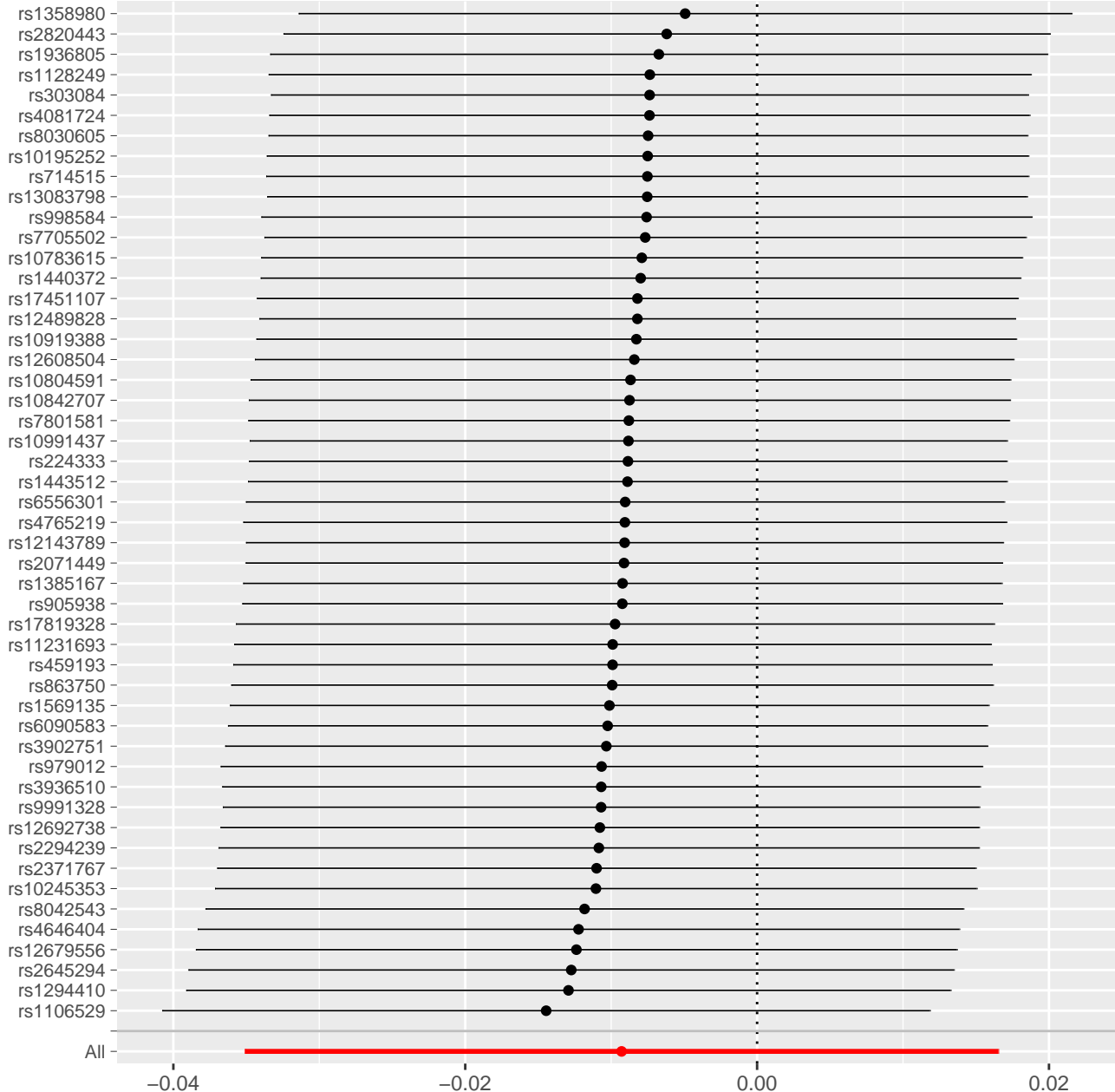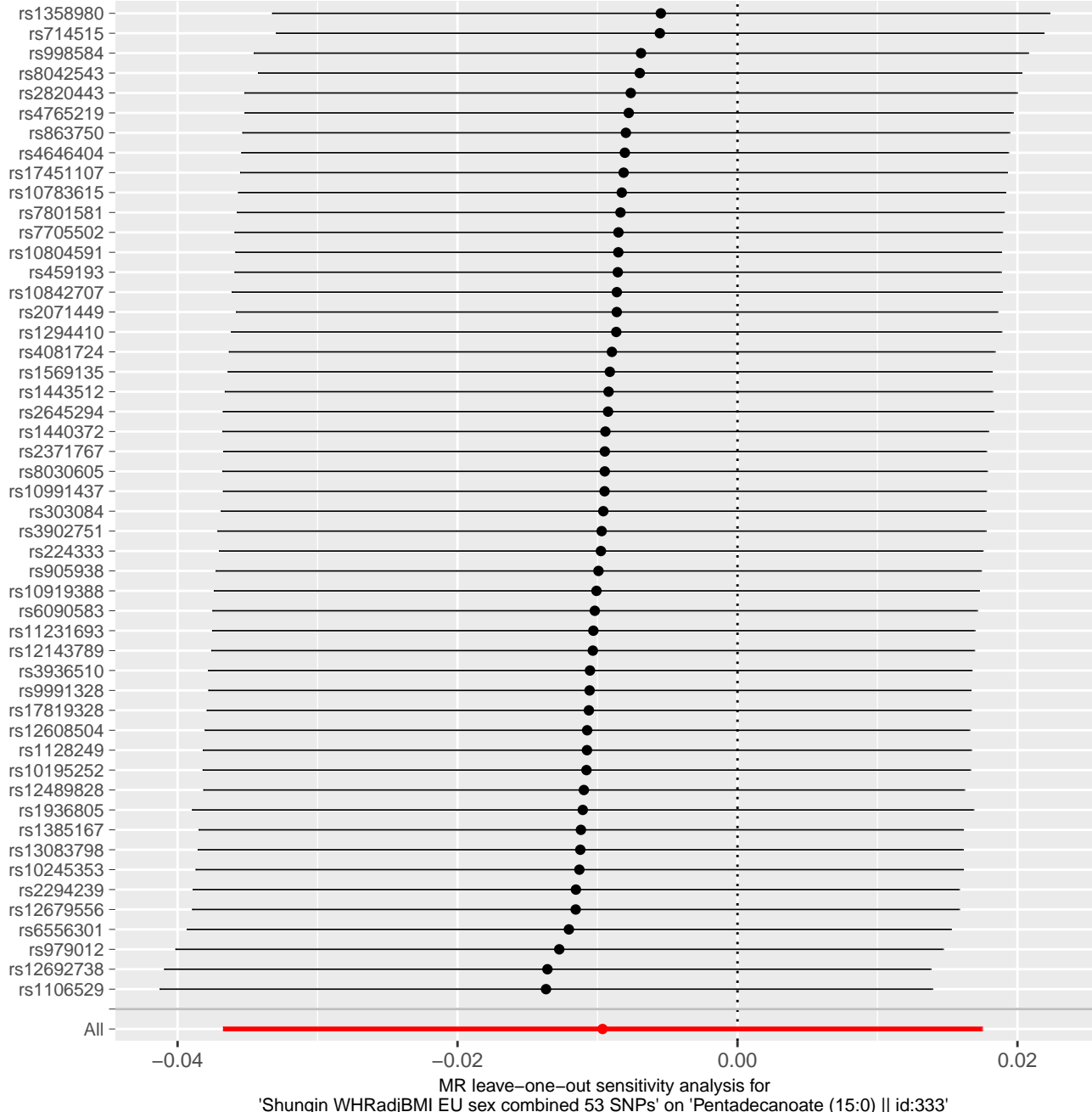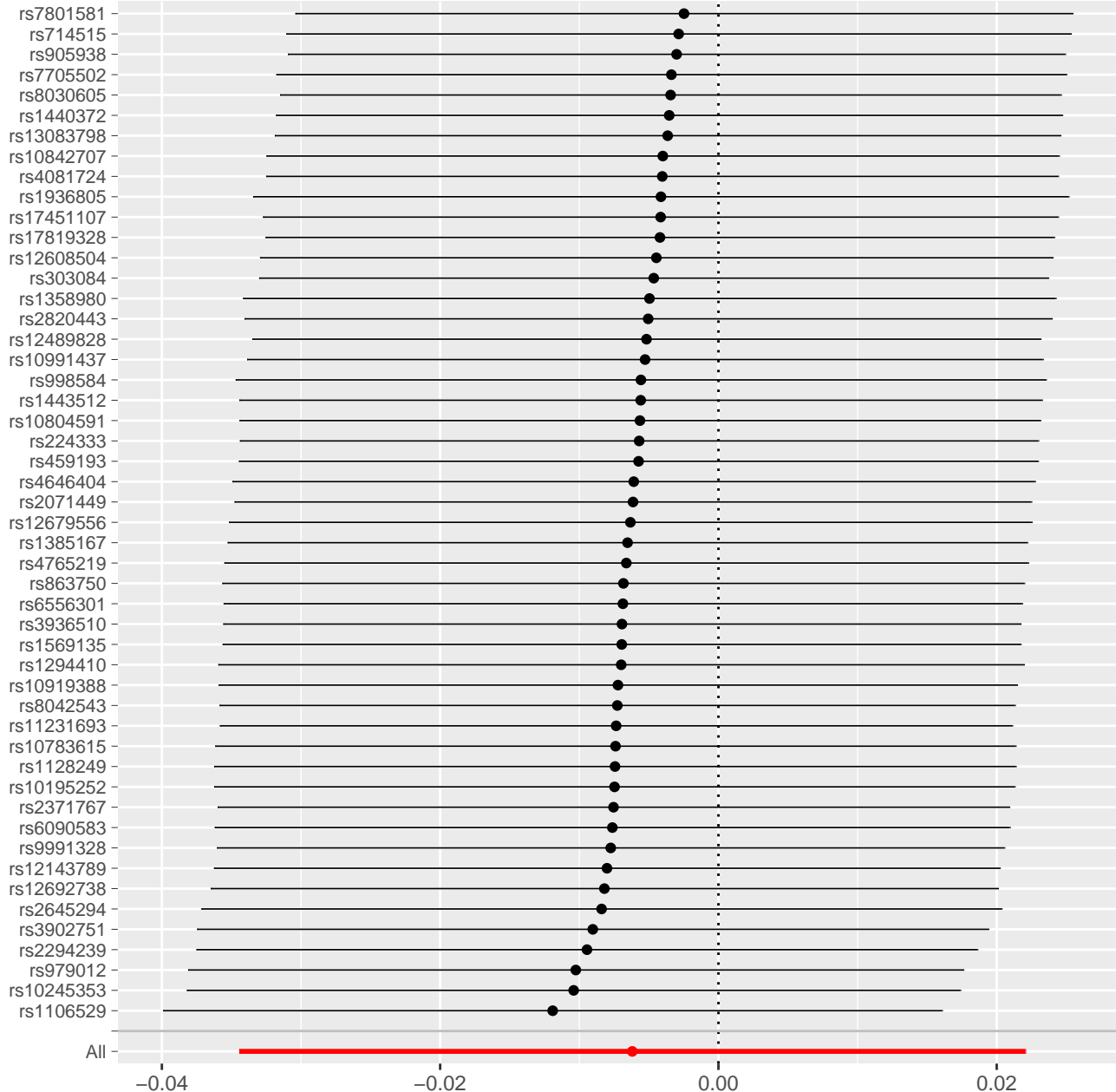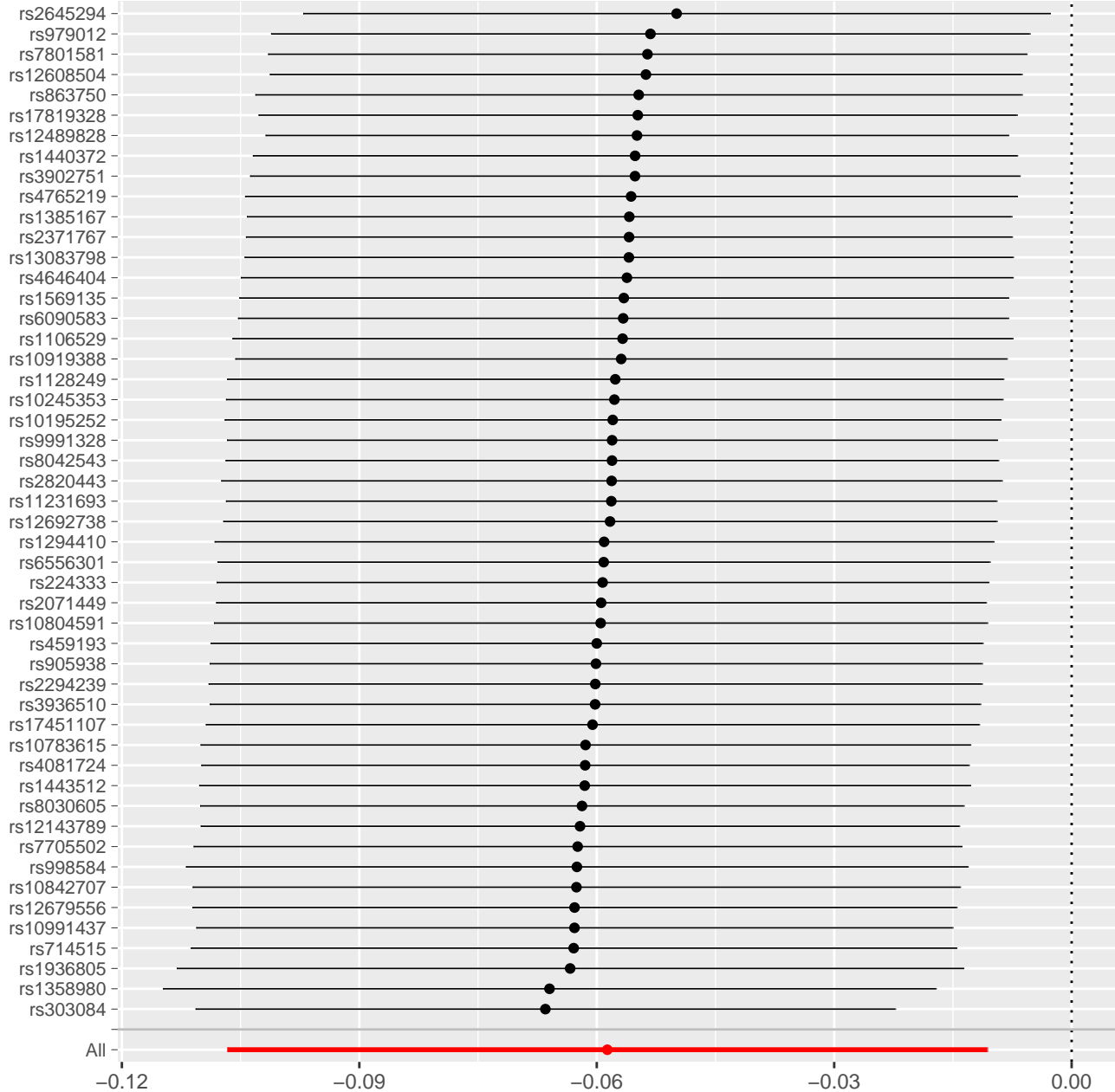
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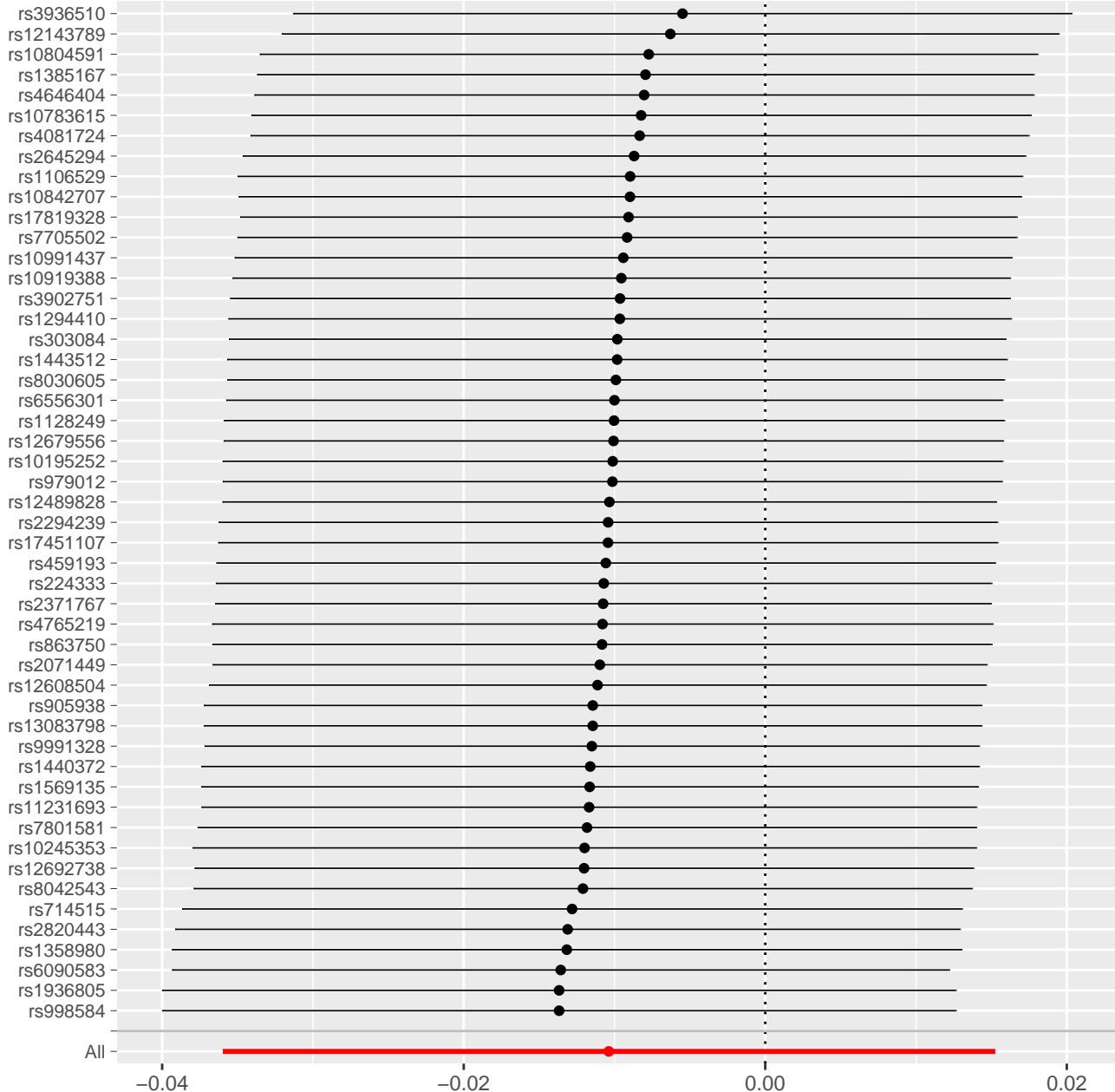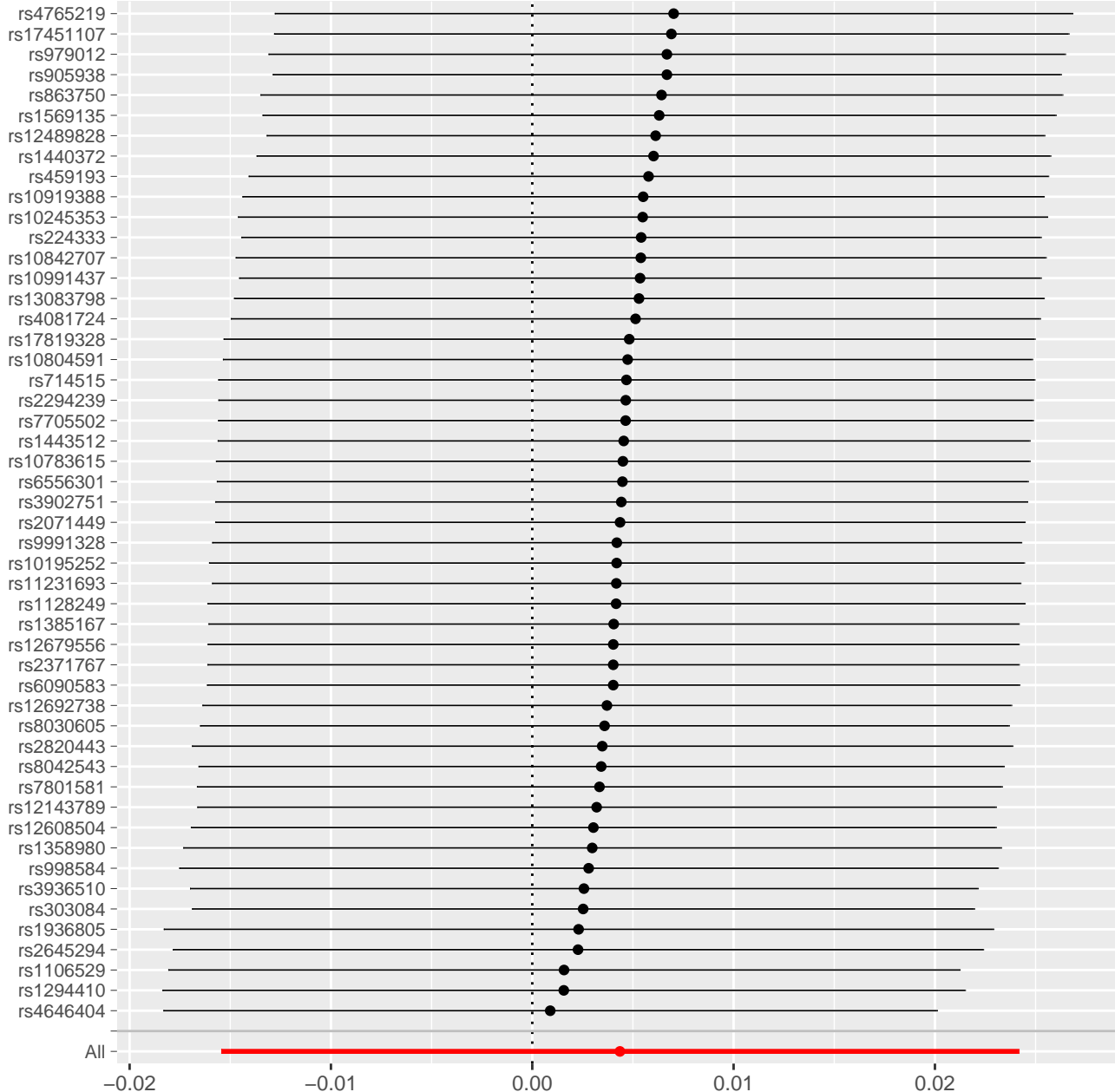'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Pentadecanoate (15:0) || id:333'

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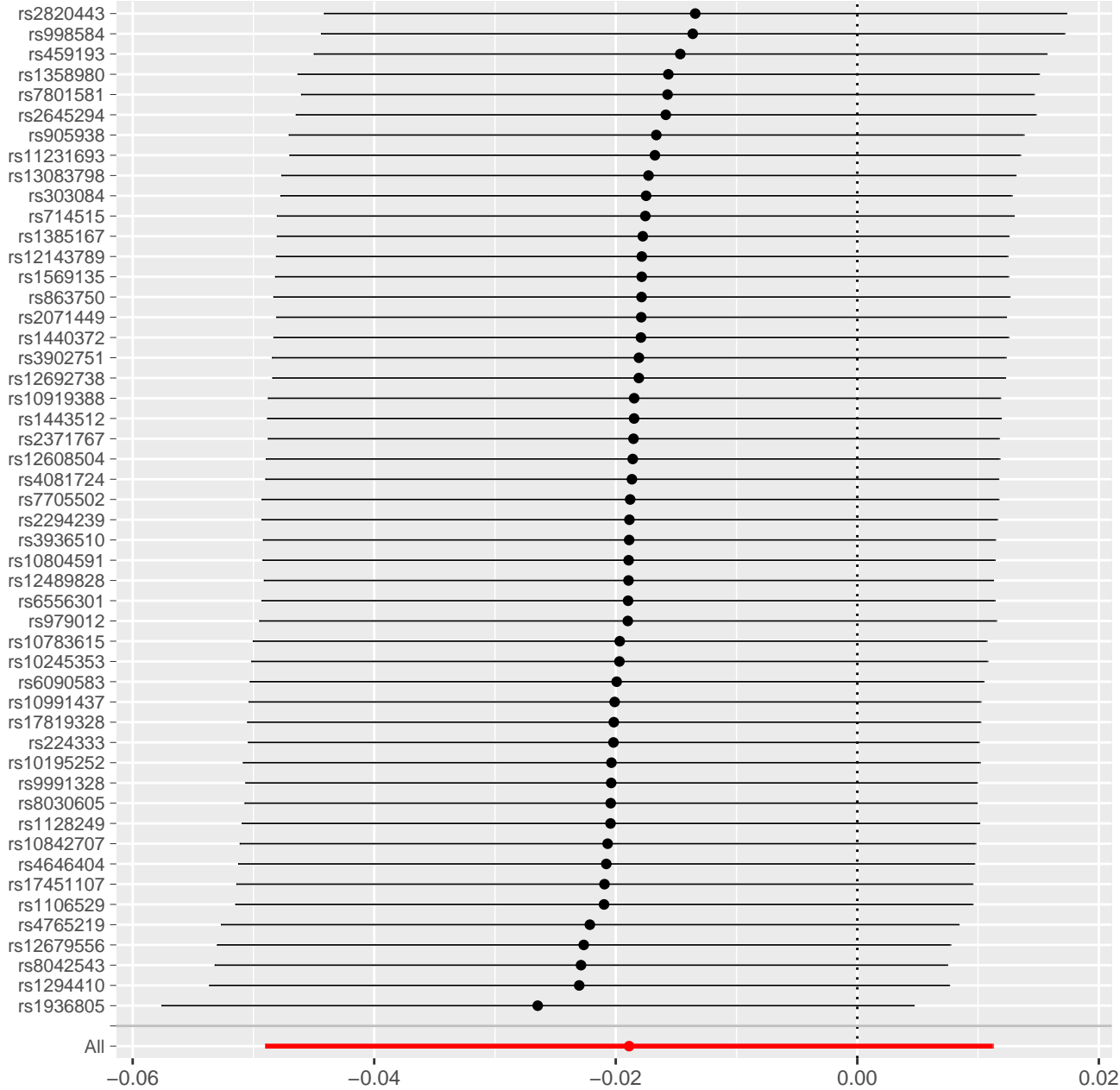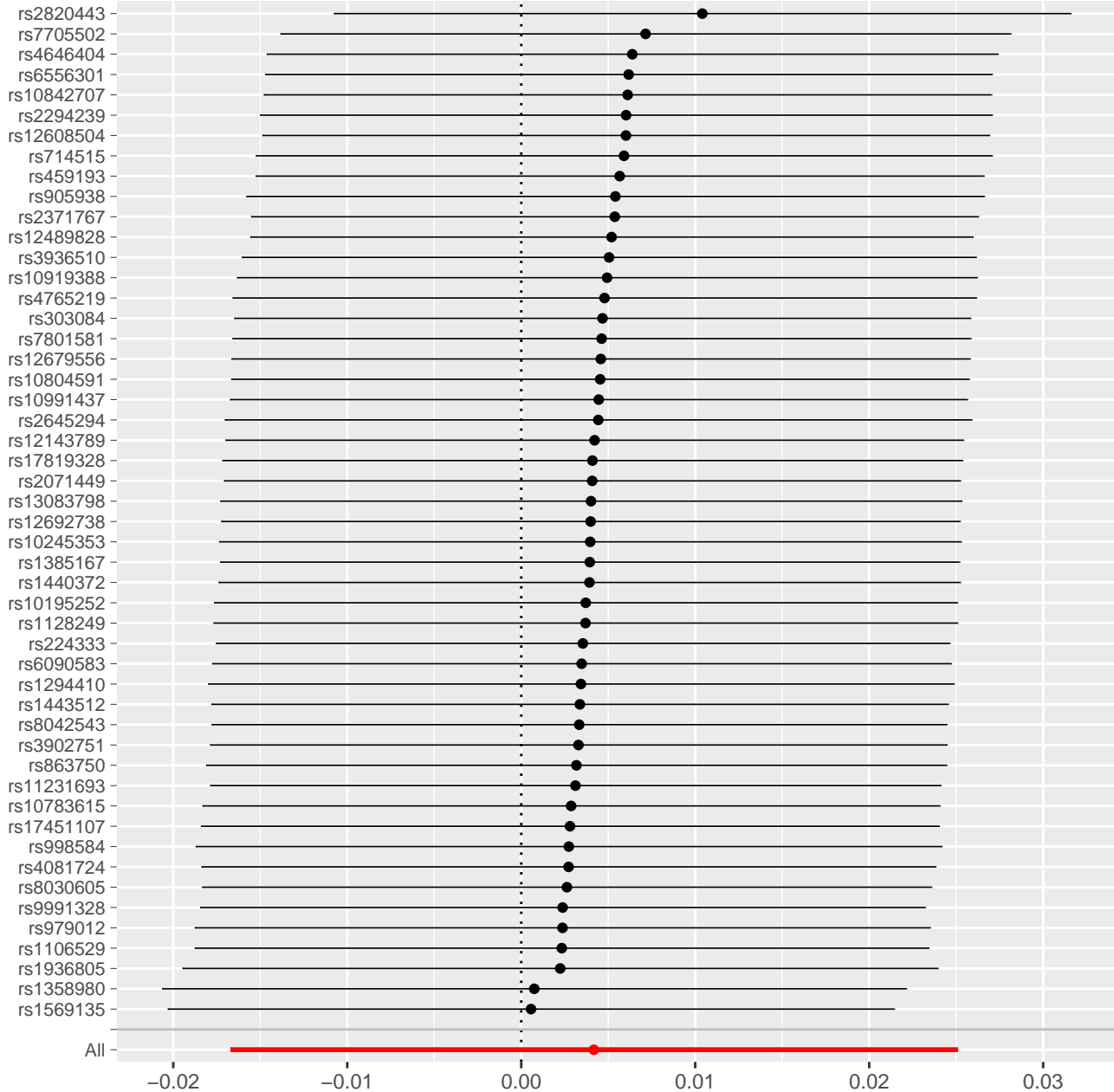'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Pipecolate || id:335'

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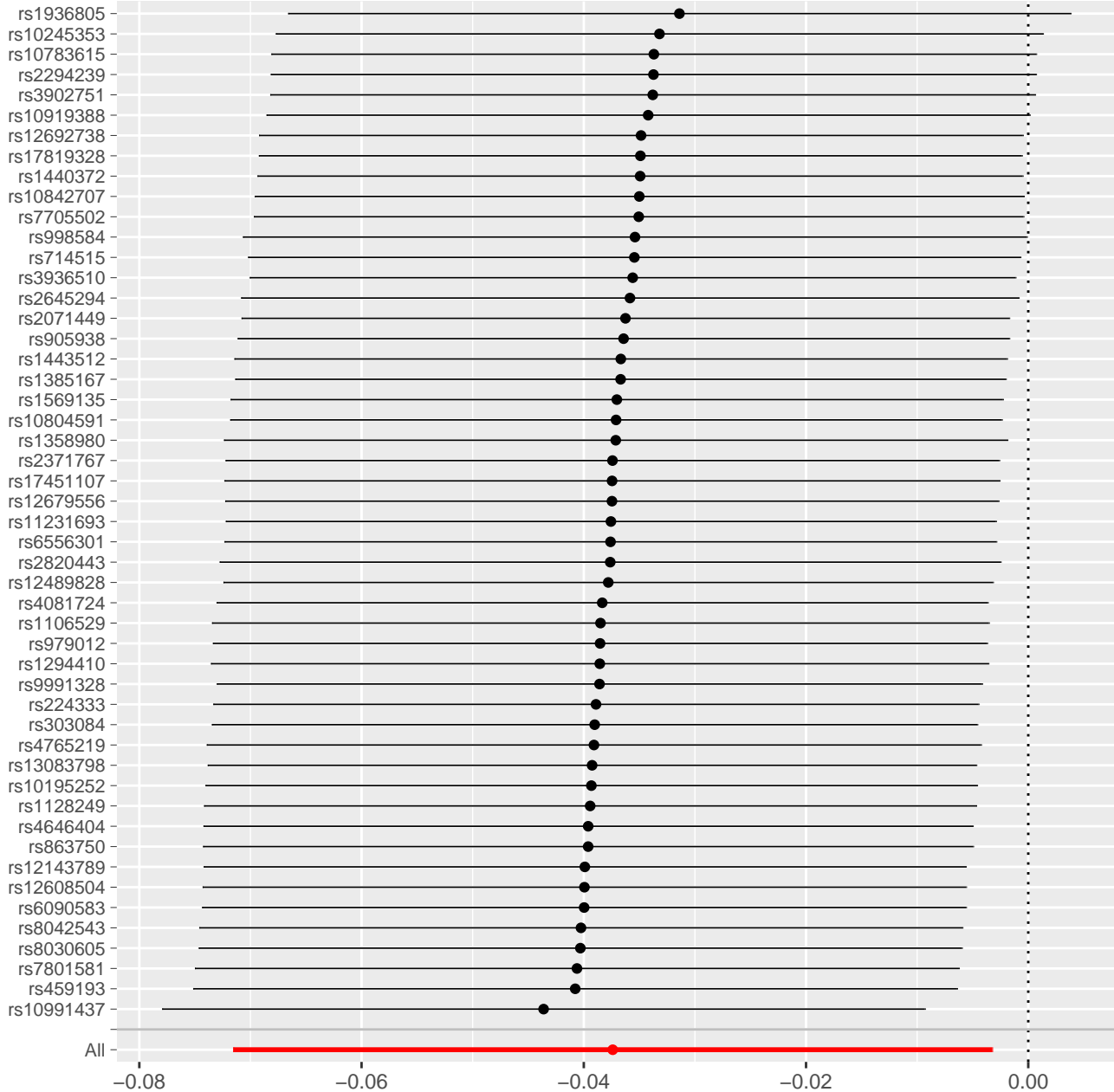'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Alpha−tocopherol || id:340'

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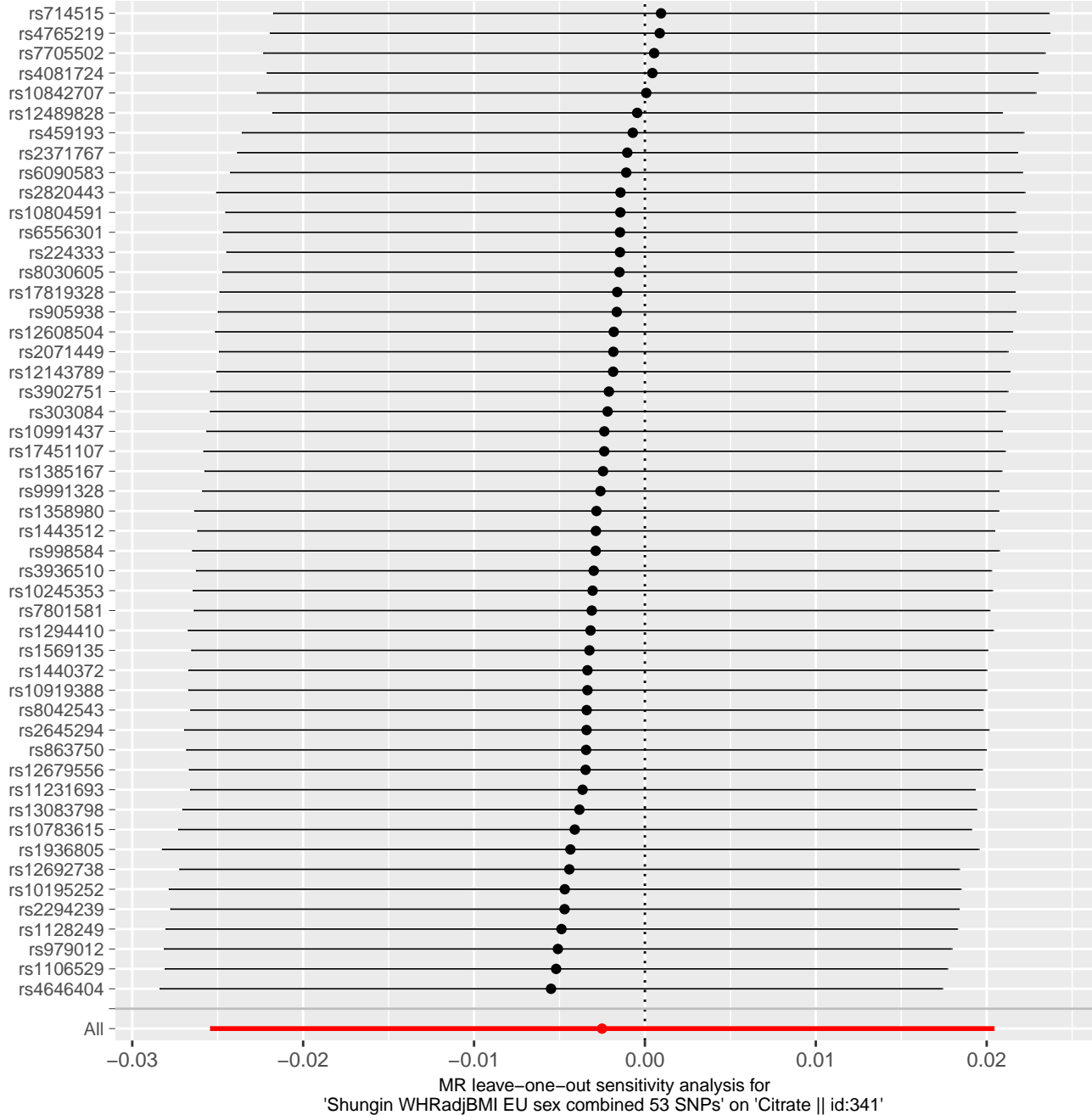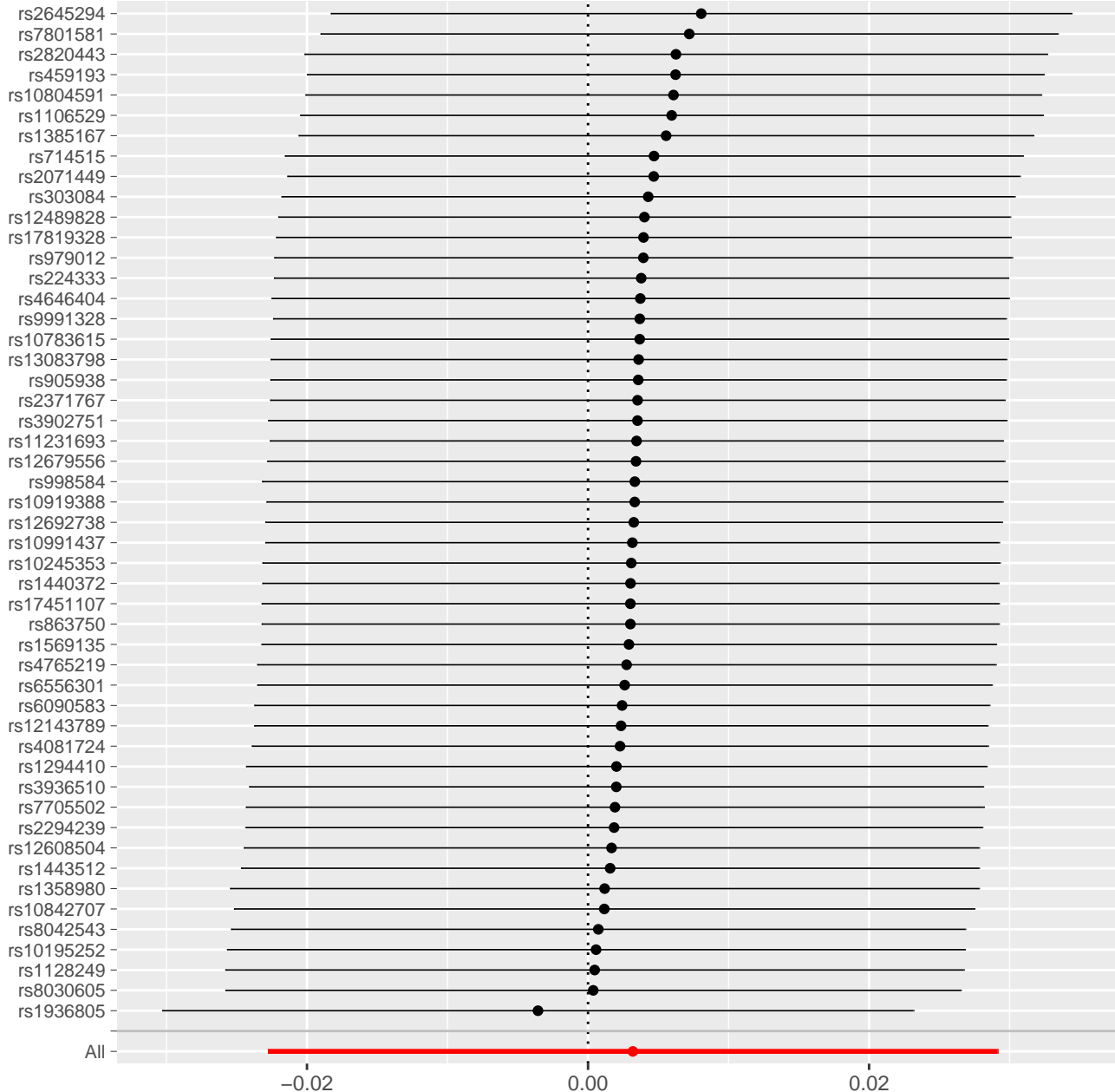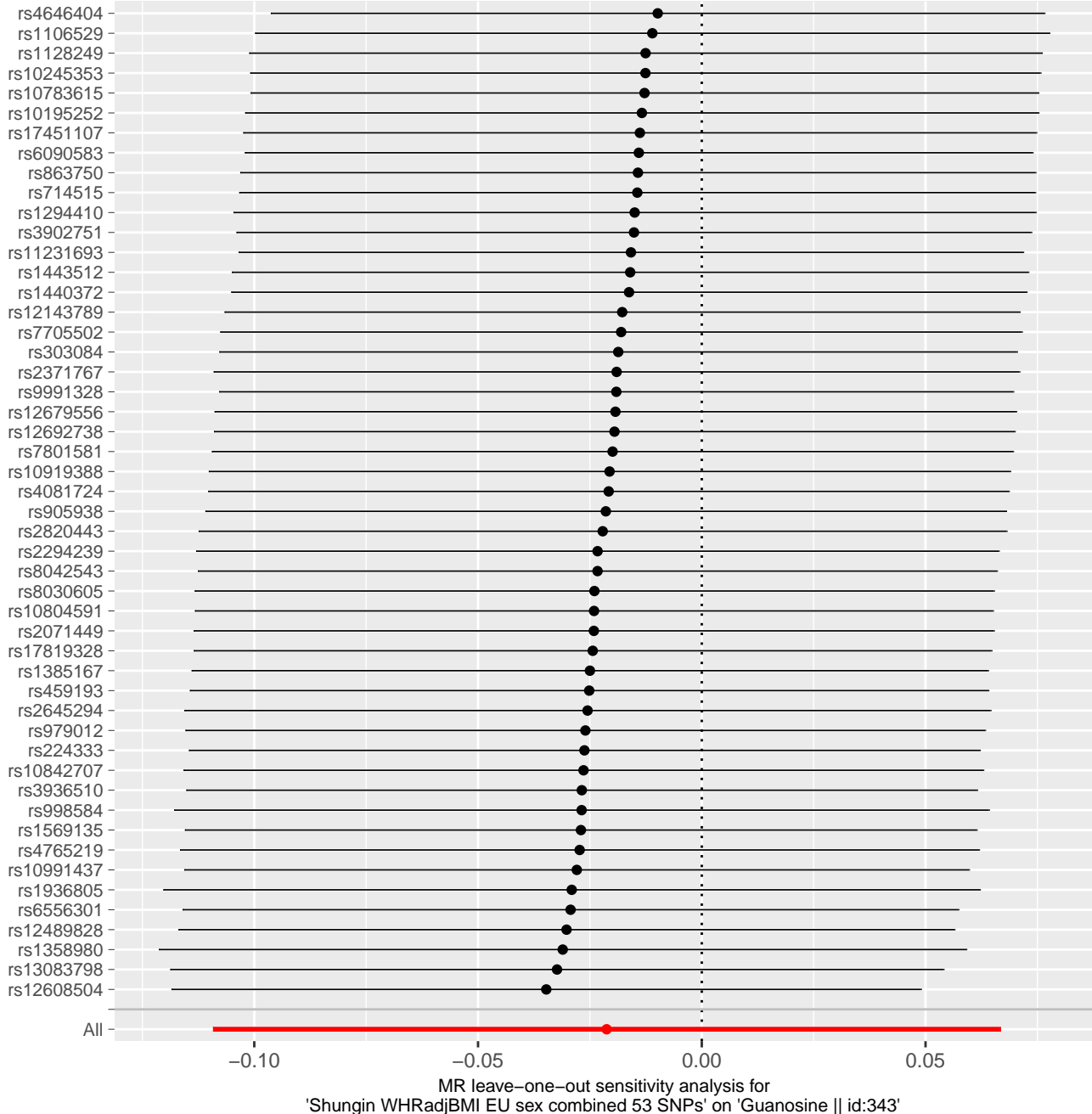'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Glycerate || id:342'

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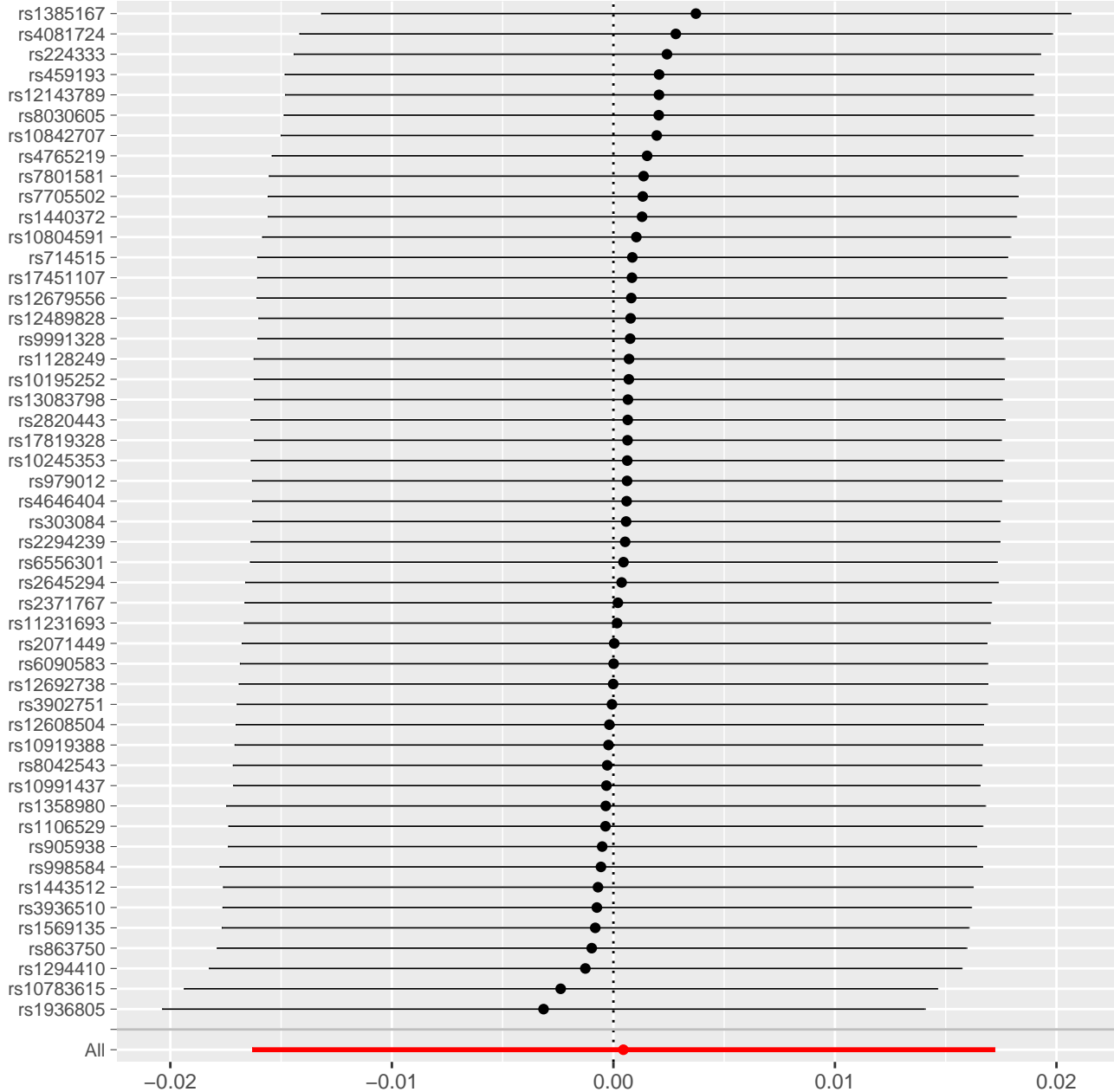'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Urate || id:345'

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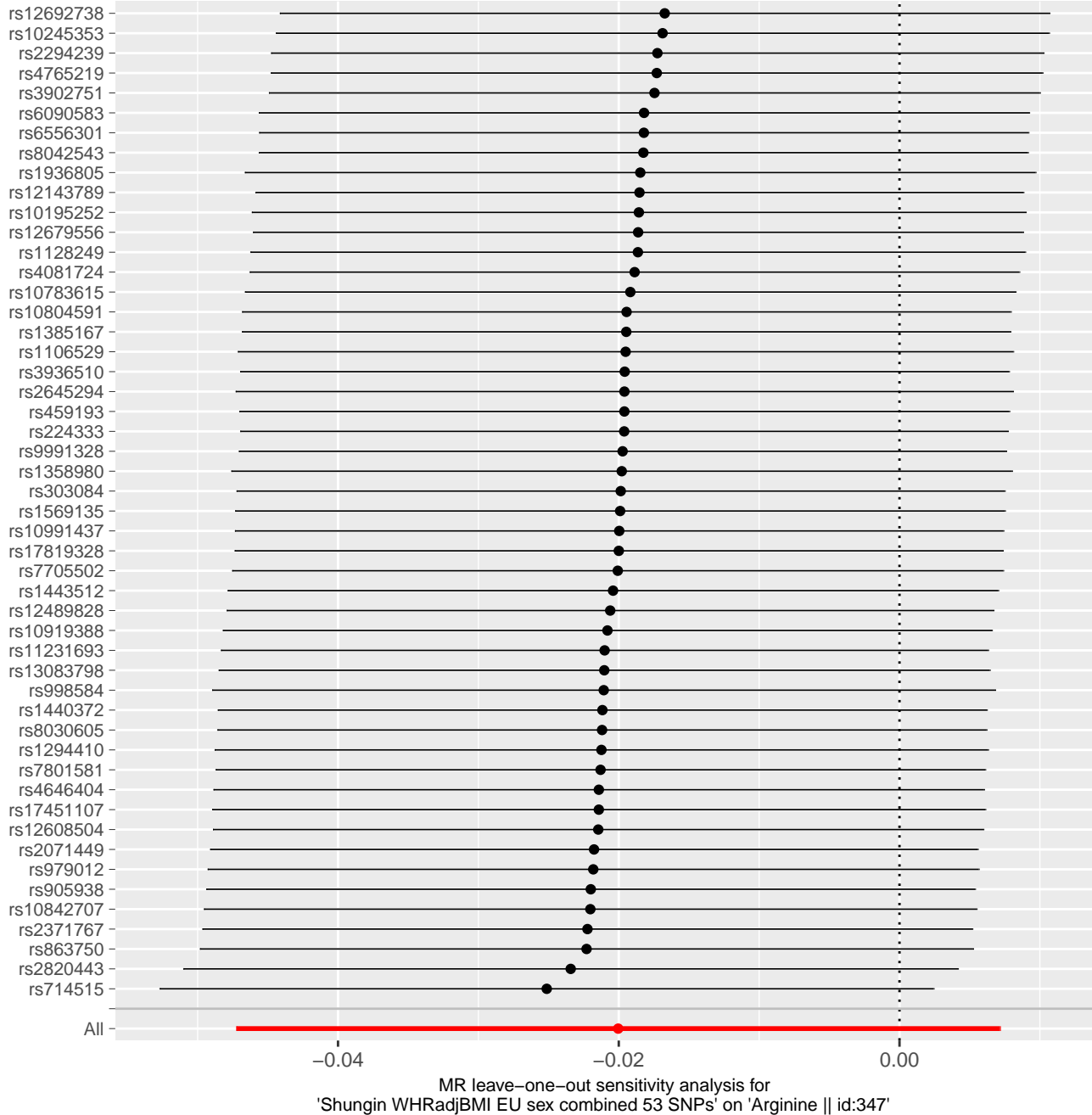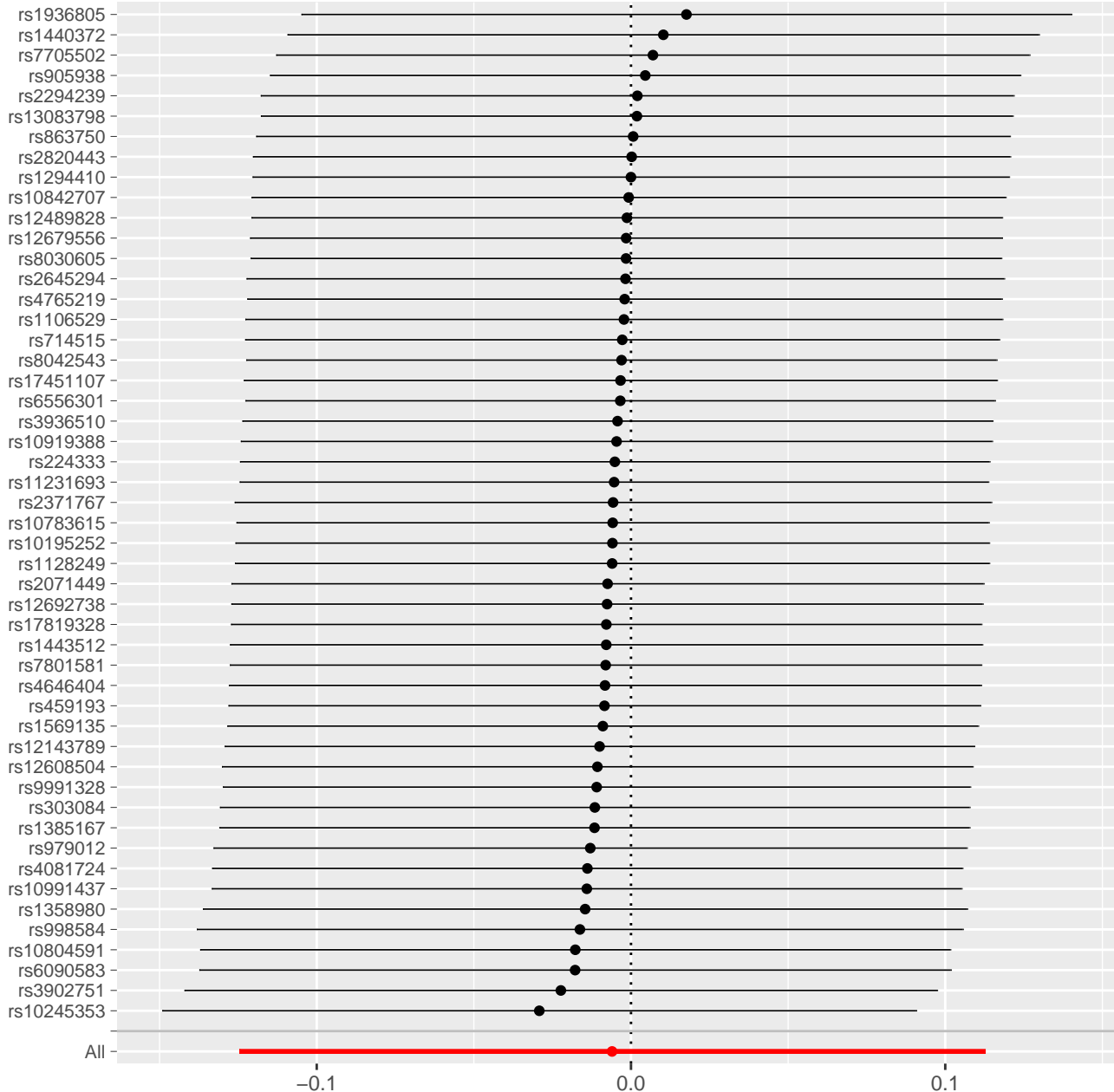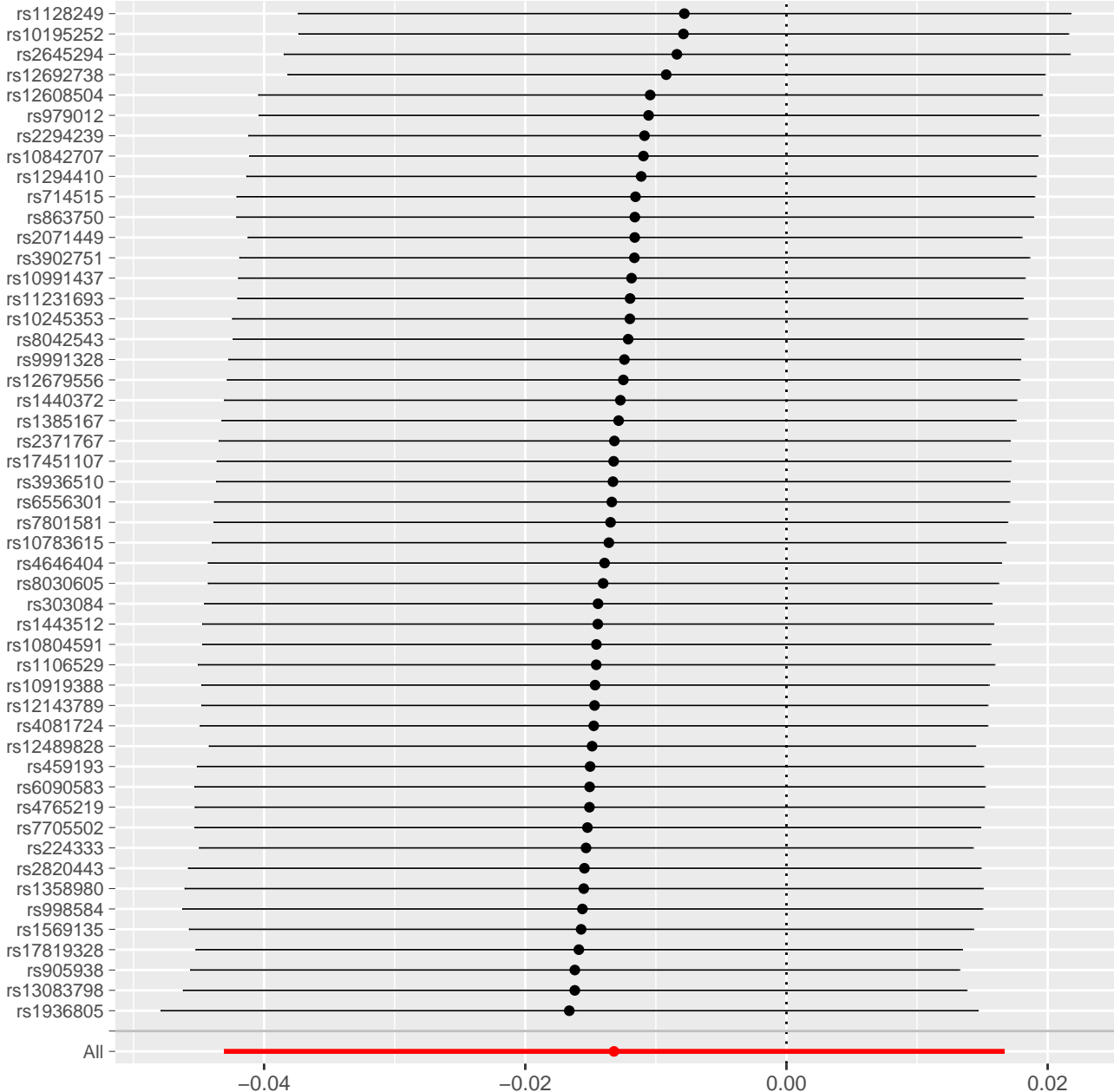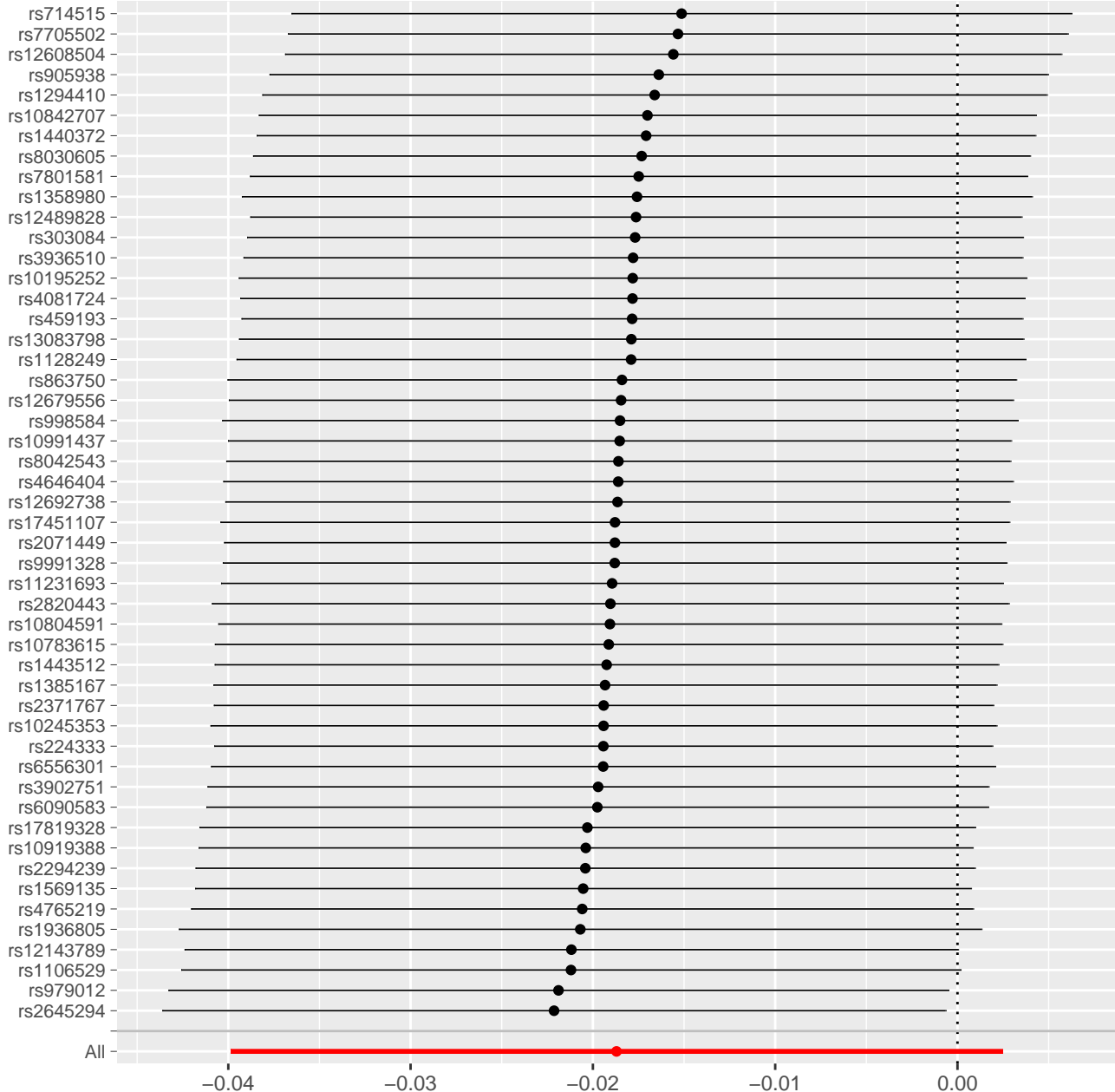'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Arginine || id:347'

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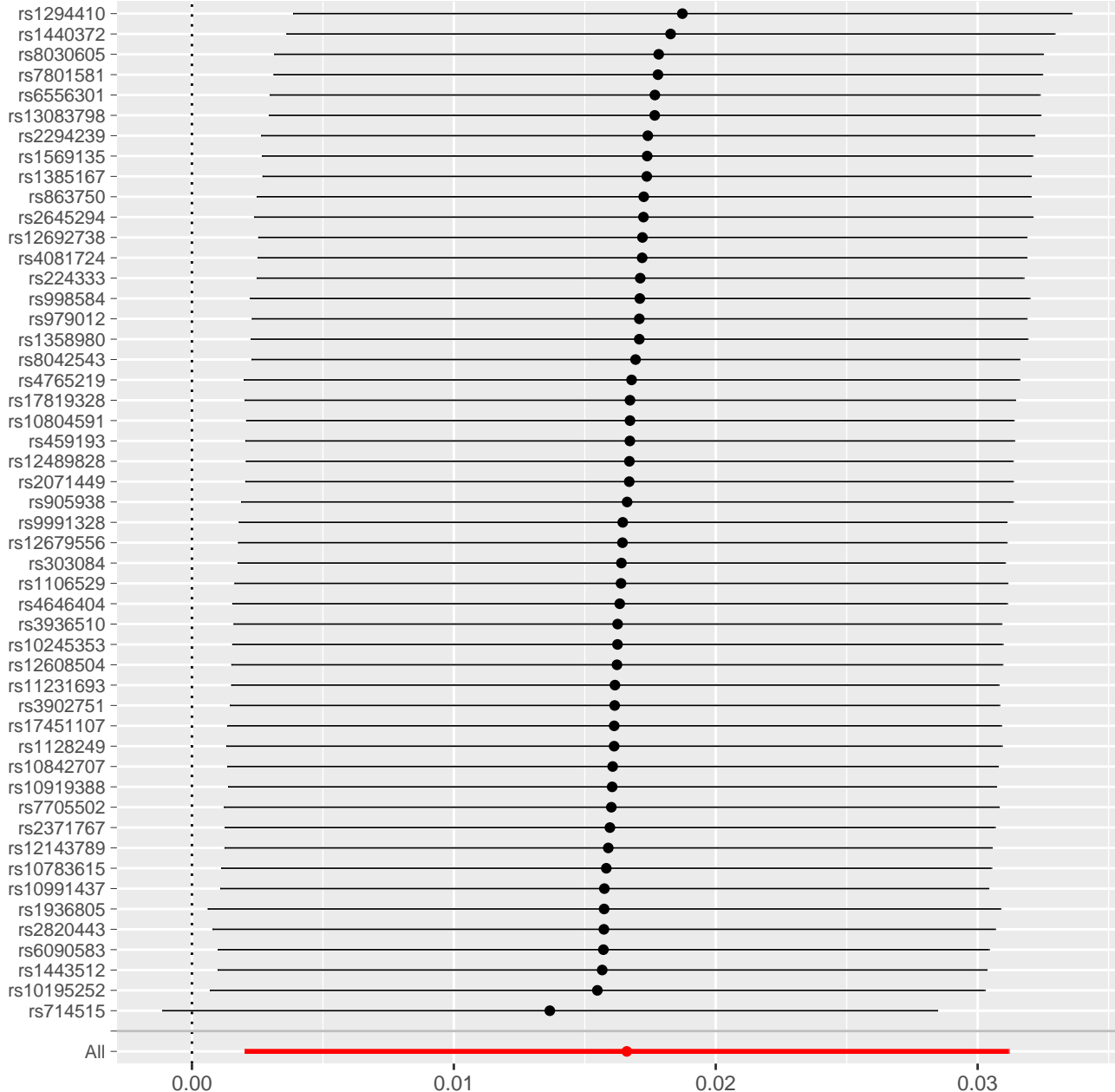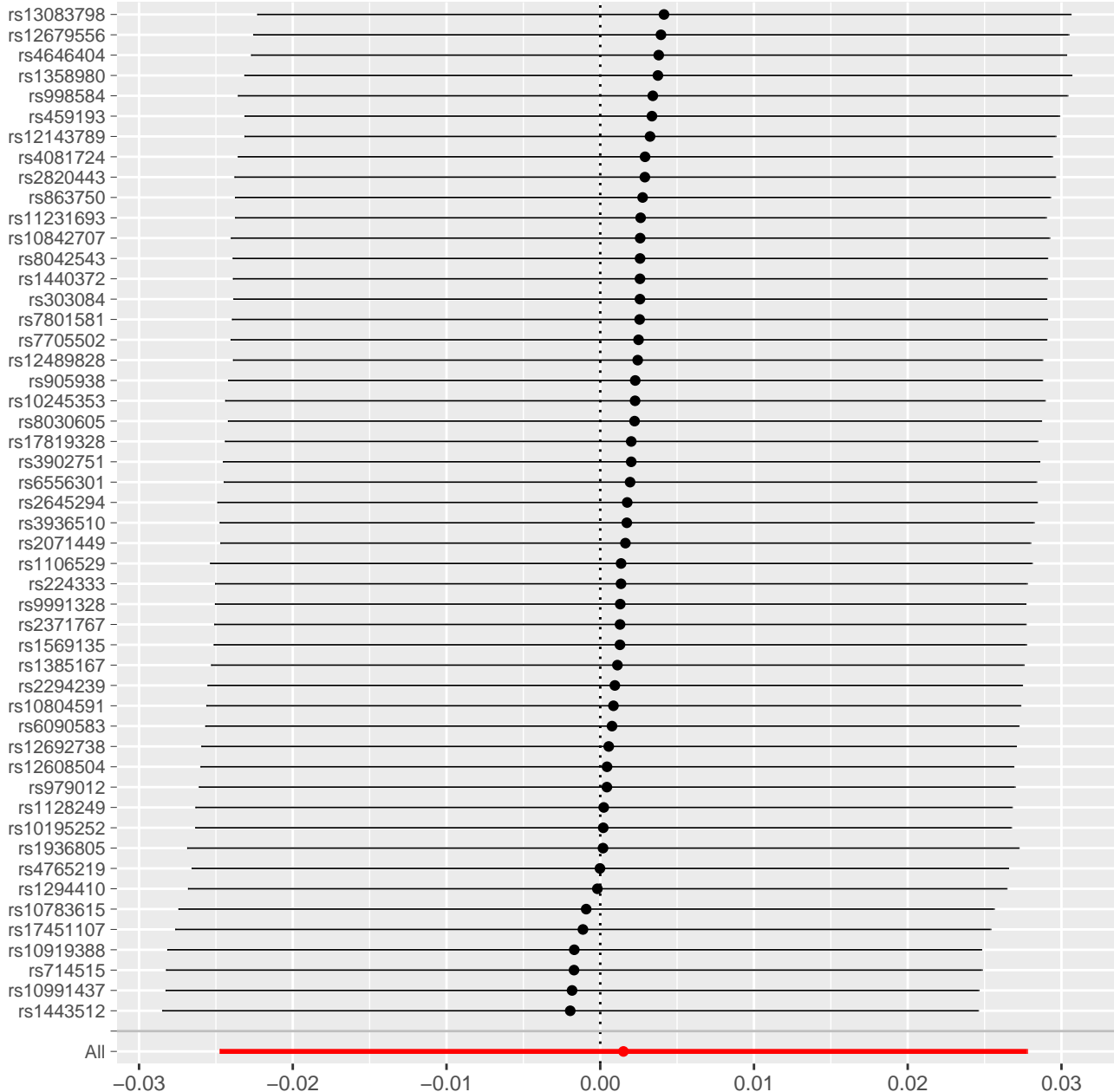'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Ascorbate (Vitamin C) || id:348'

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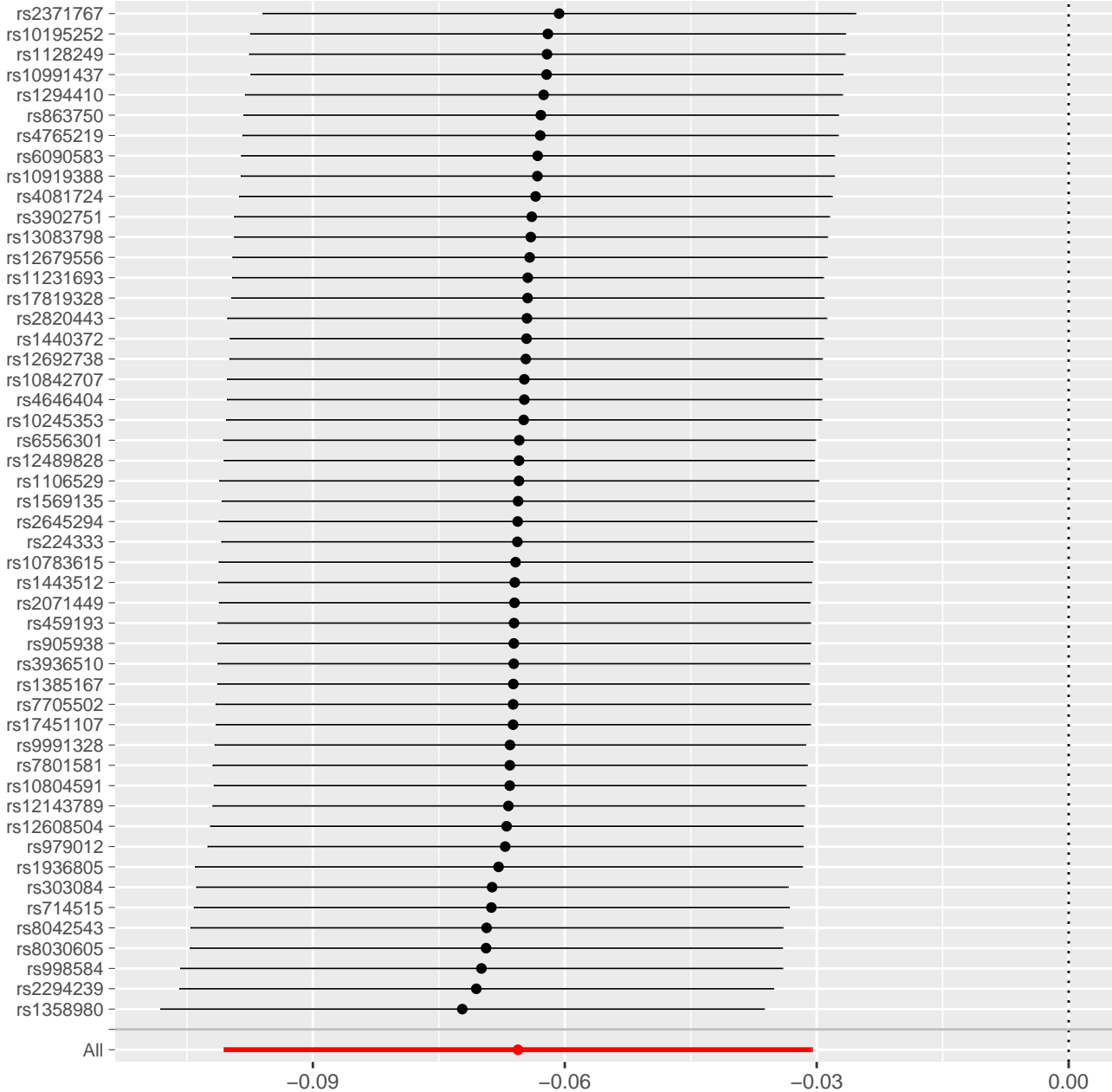'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Cortisone || id:354'
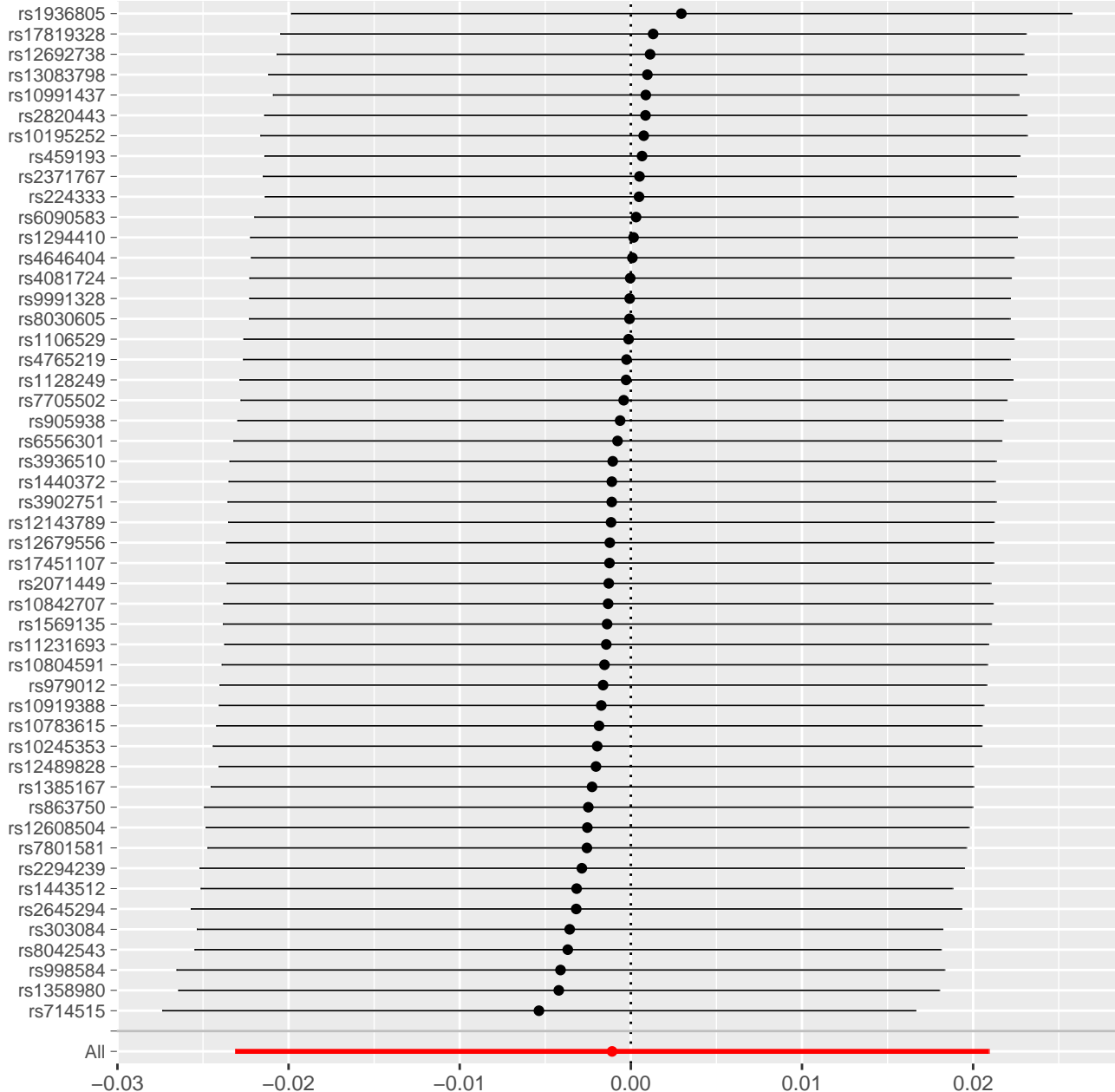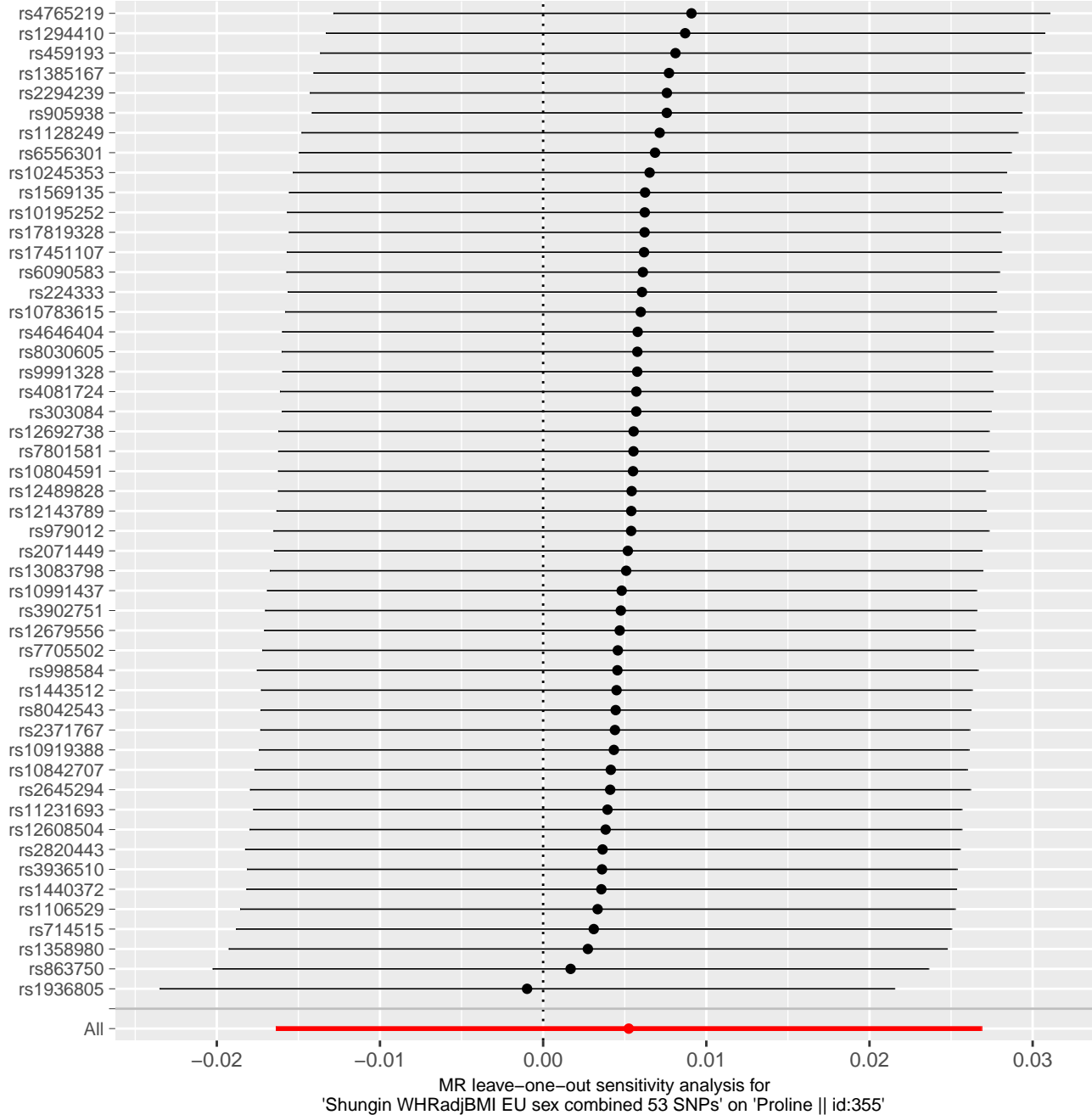
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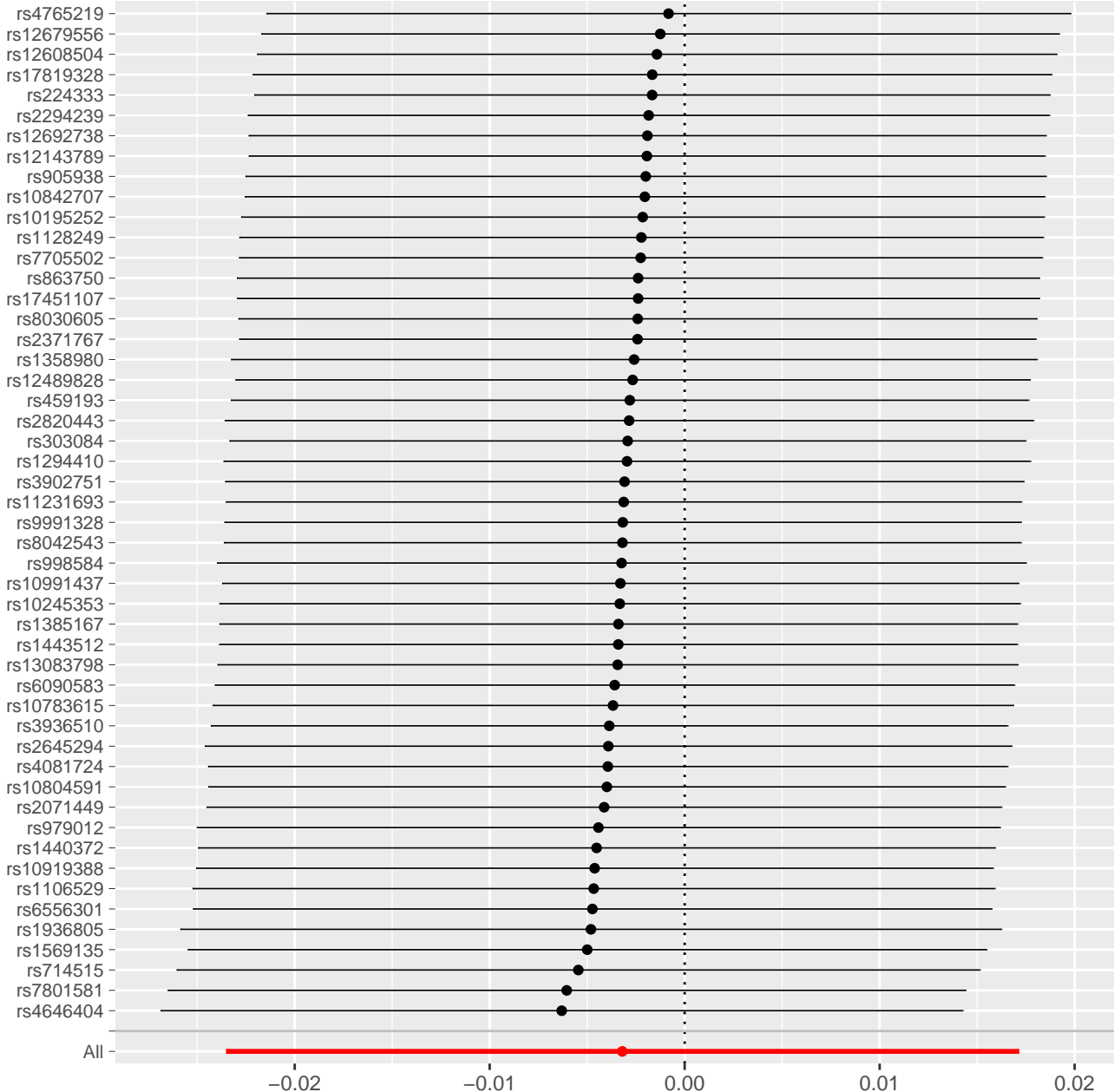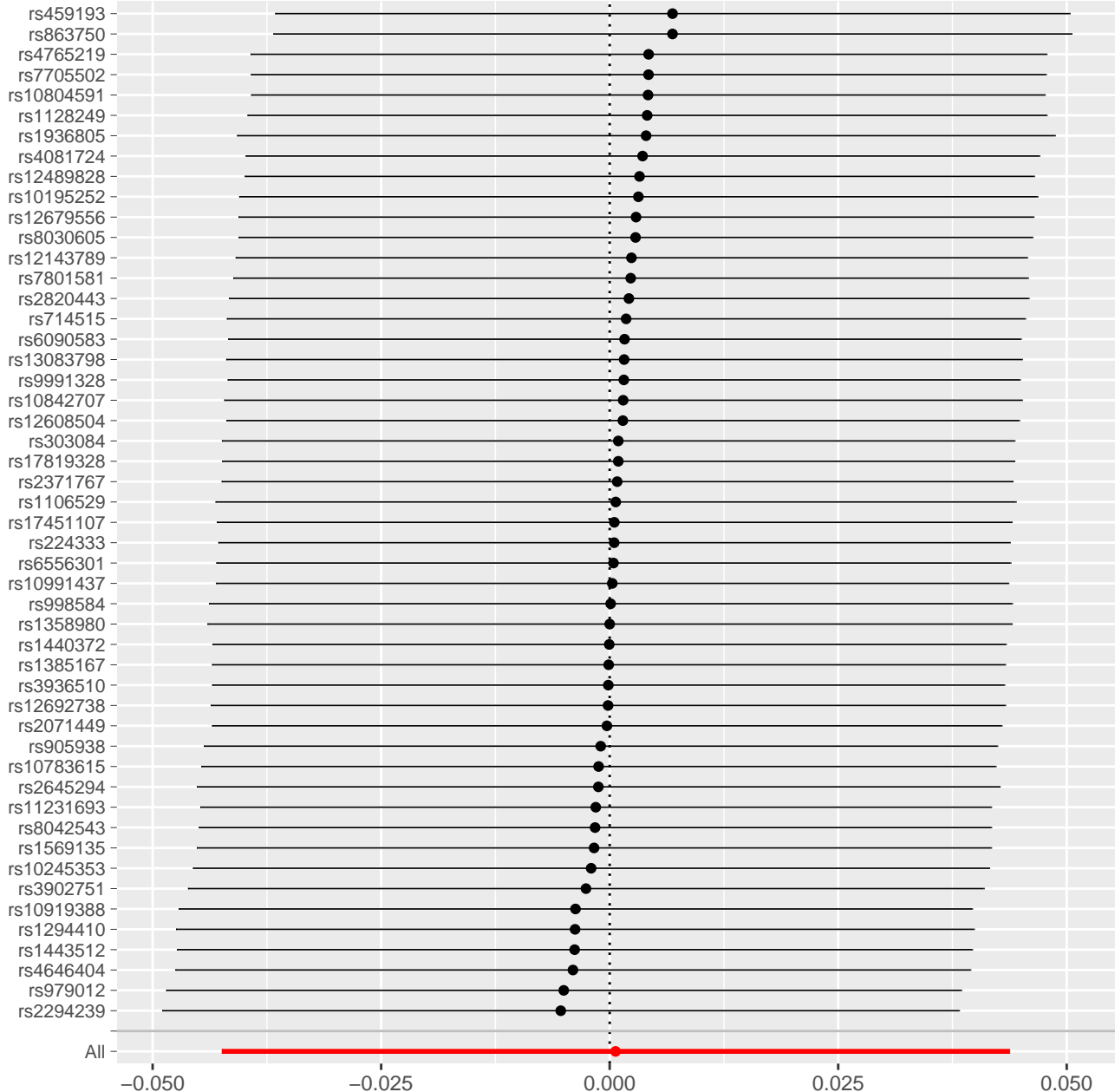
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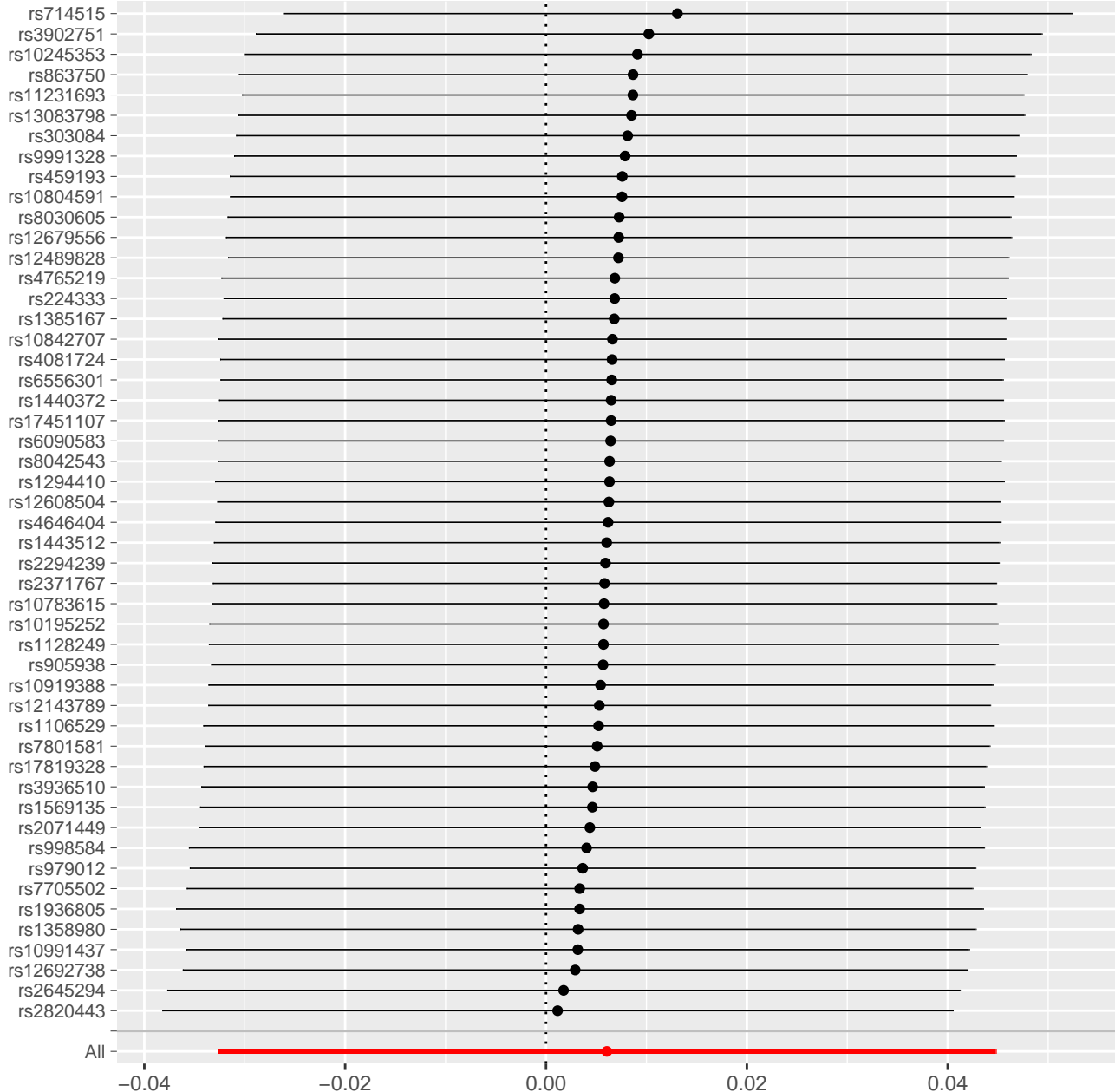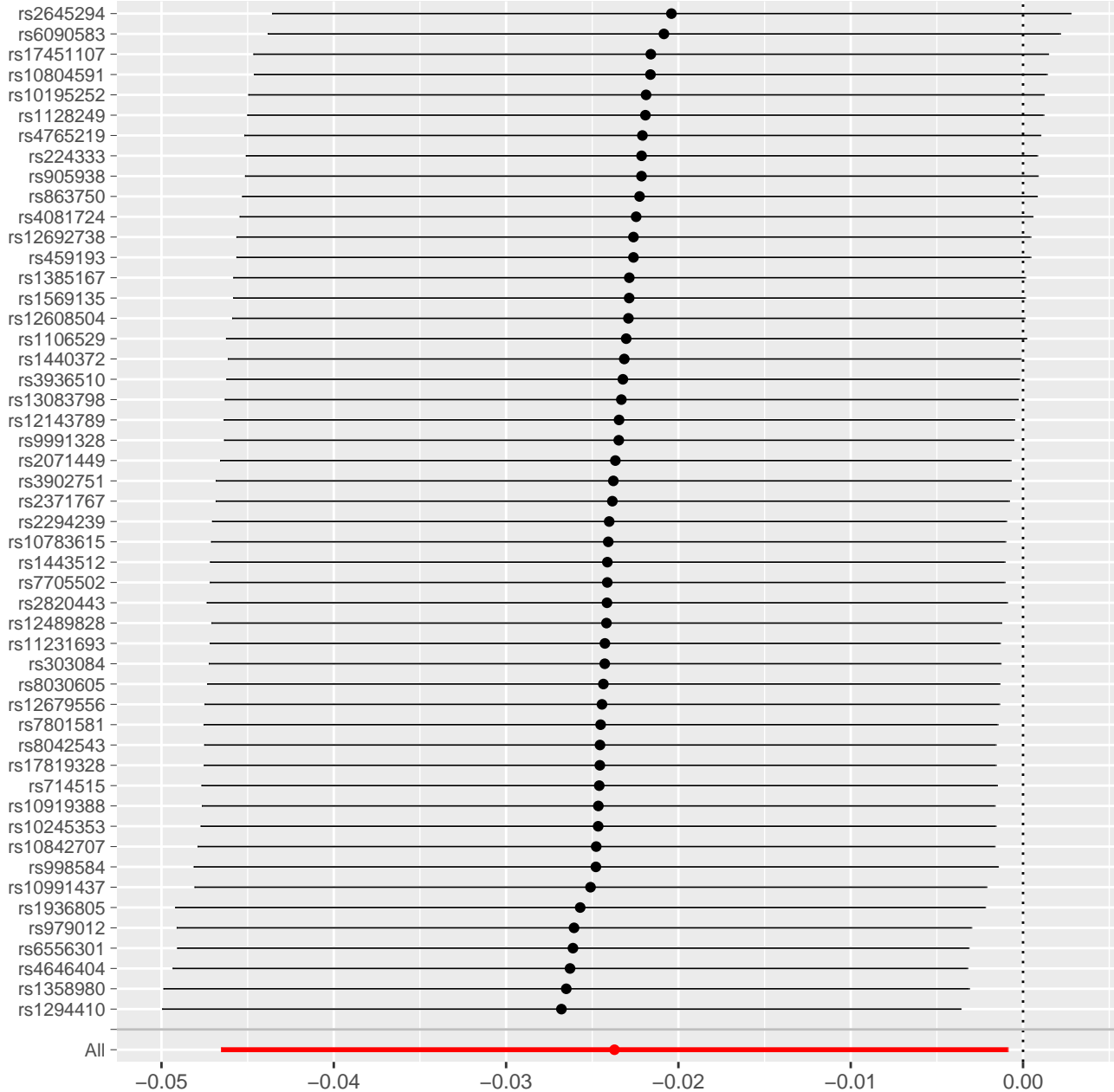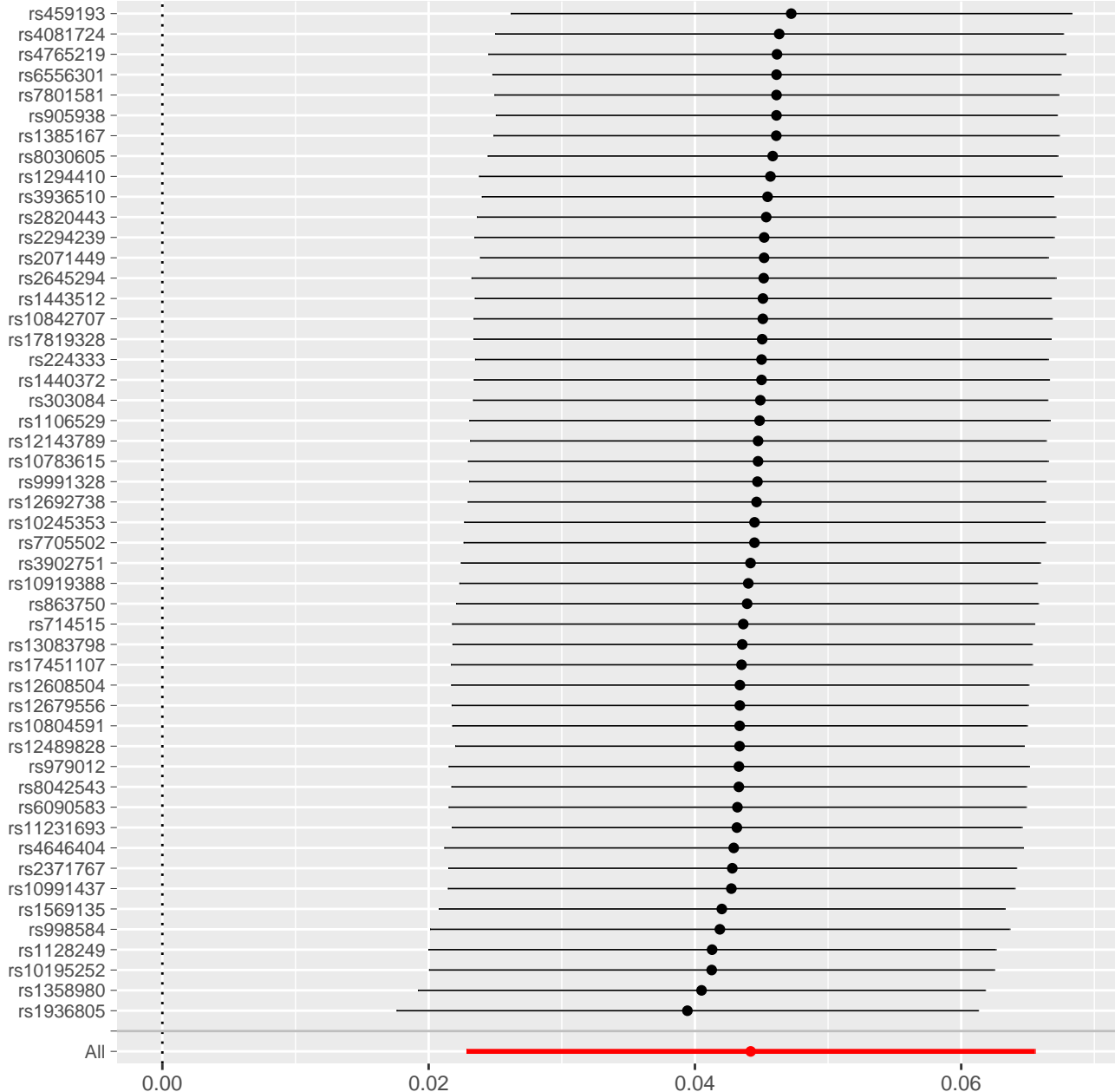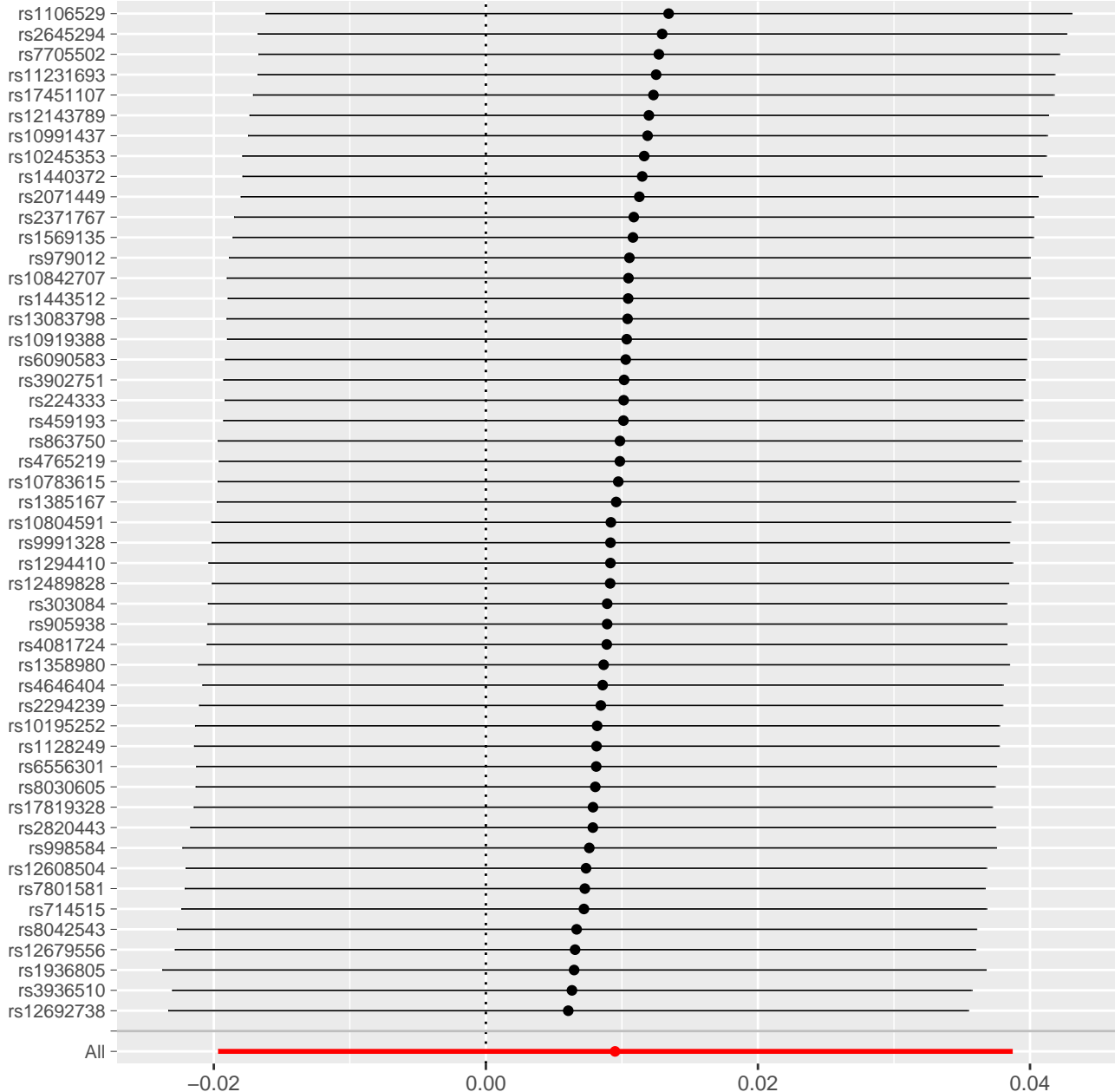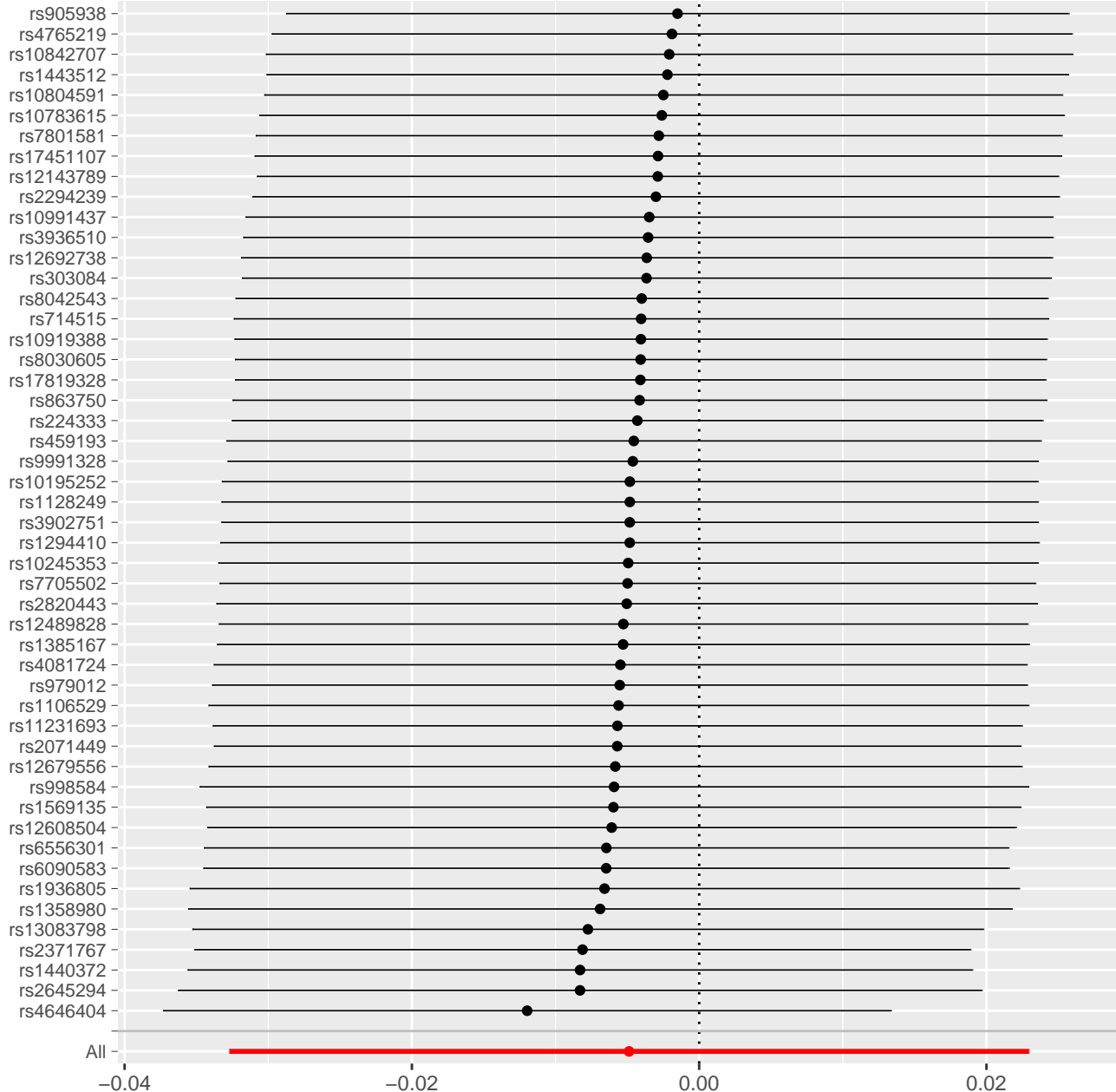'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Gamma−glutamyltyrosine || id:360'

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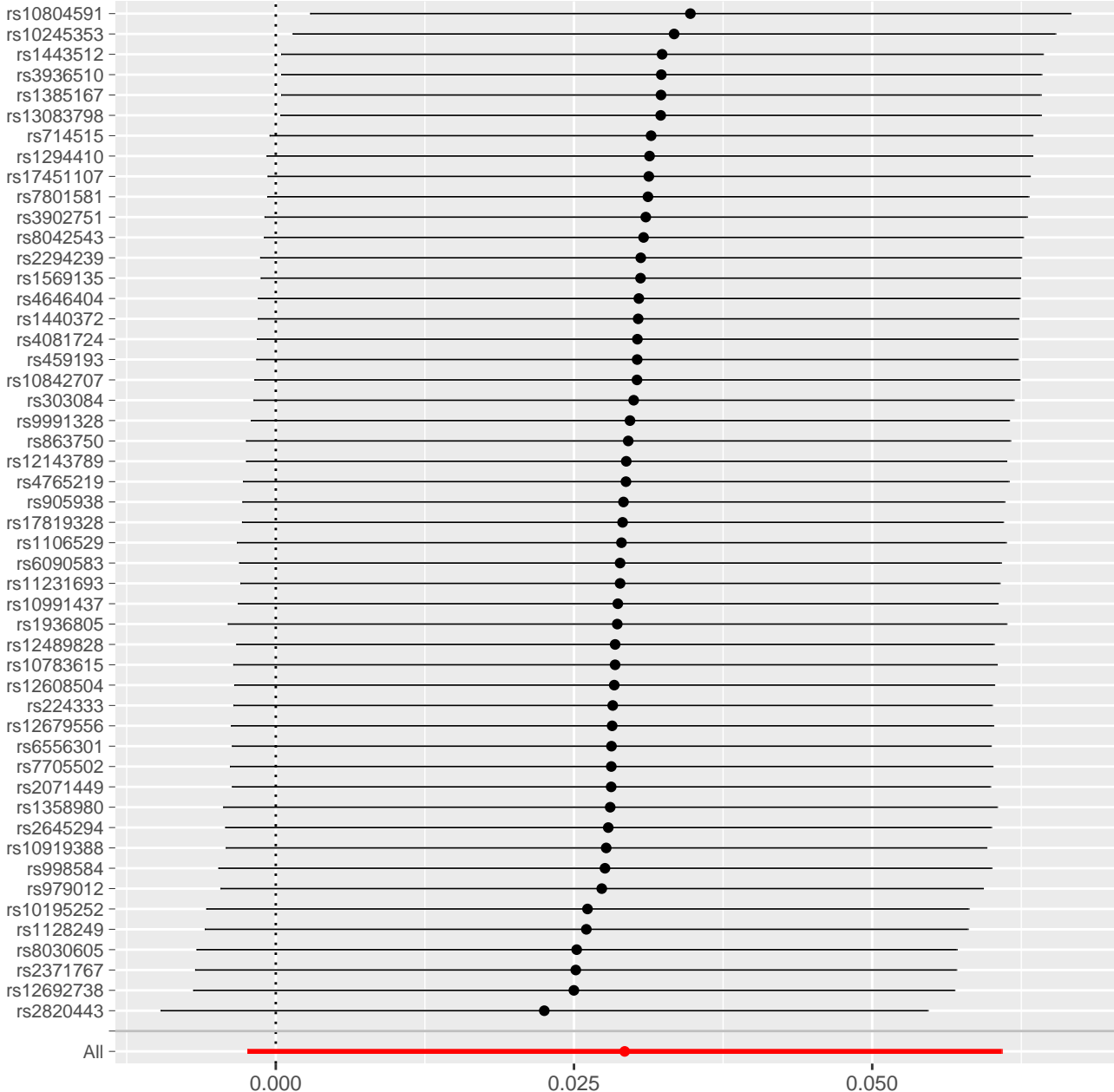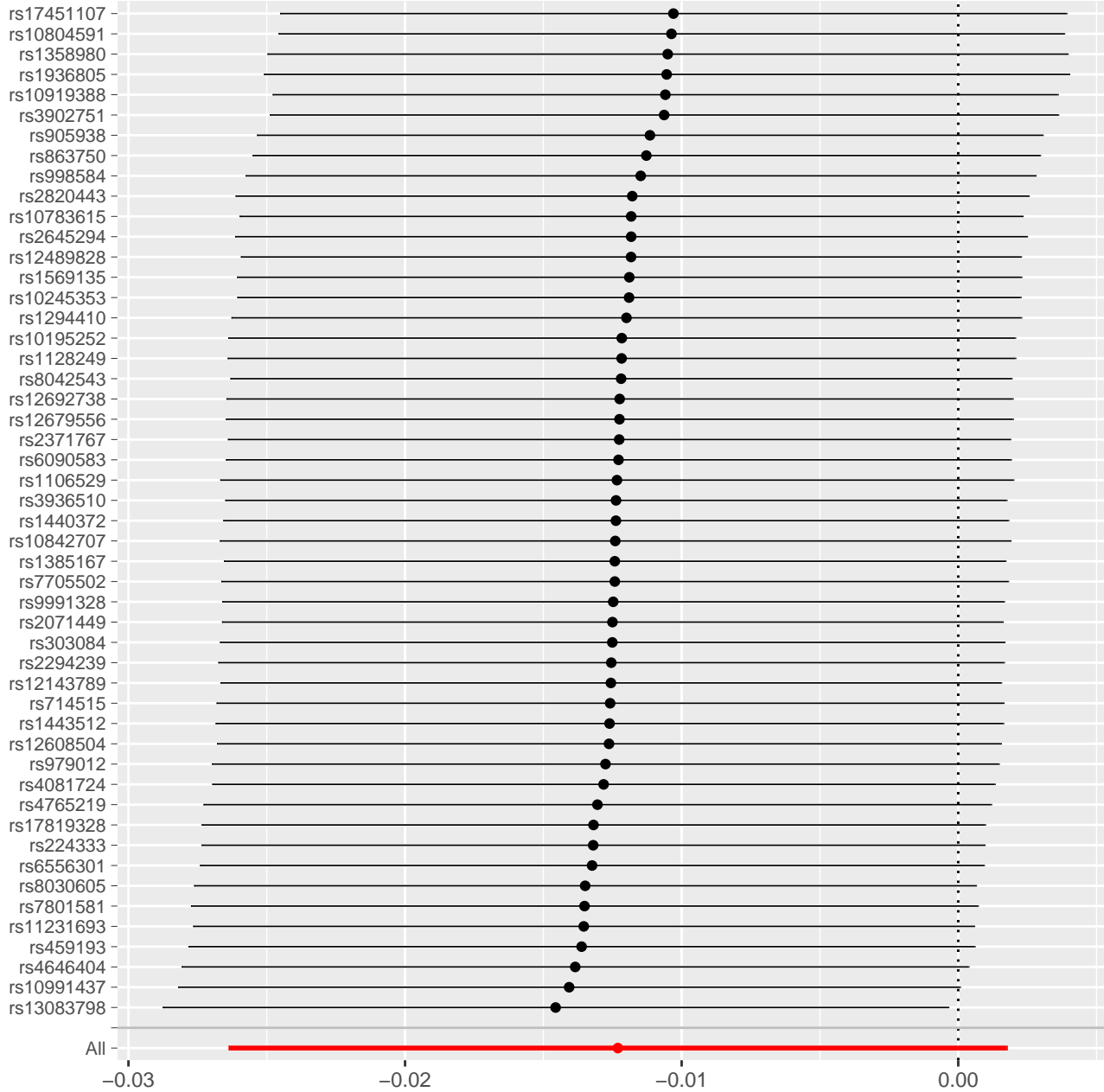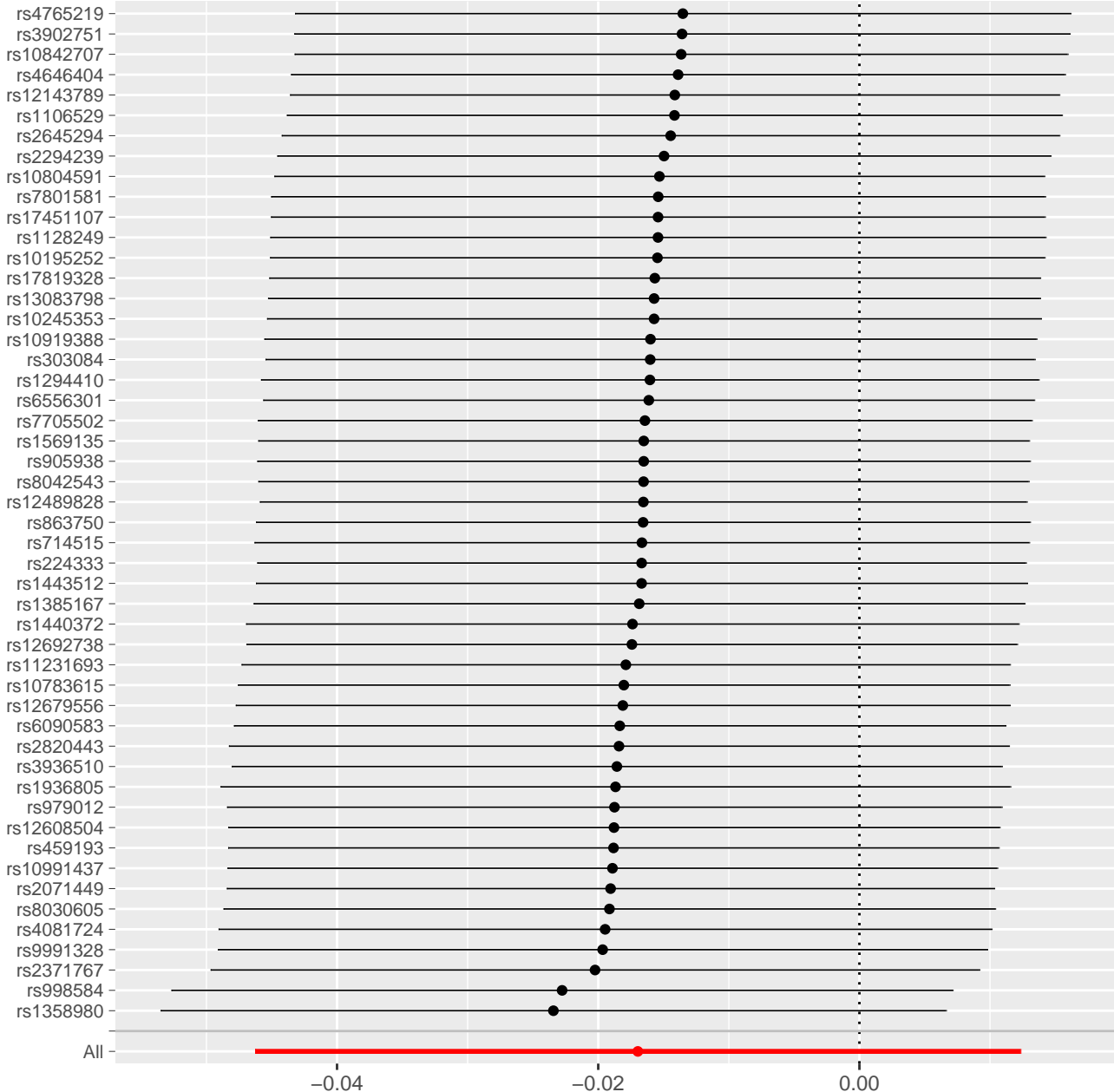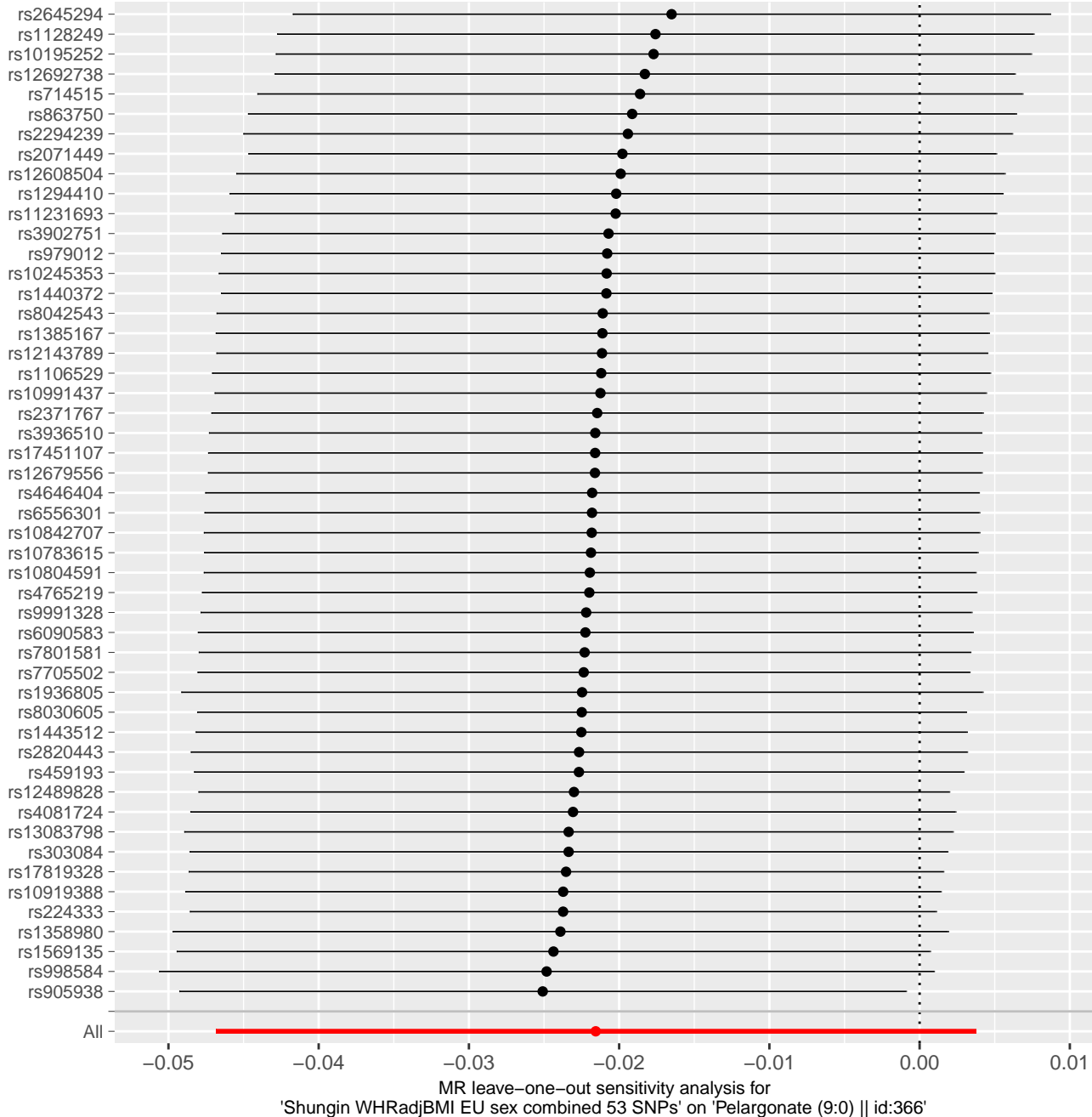
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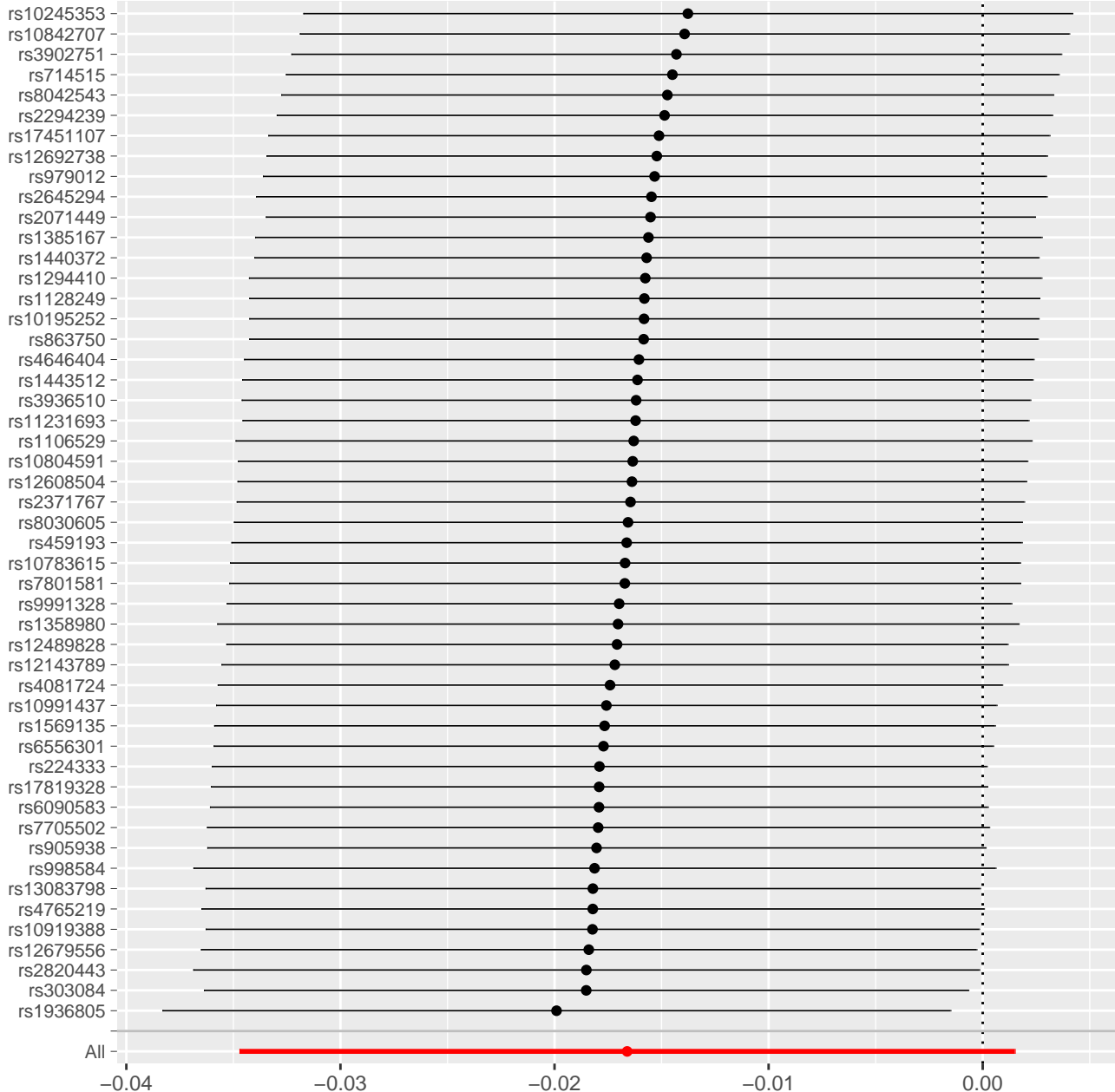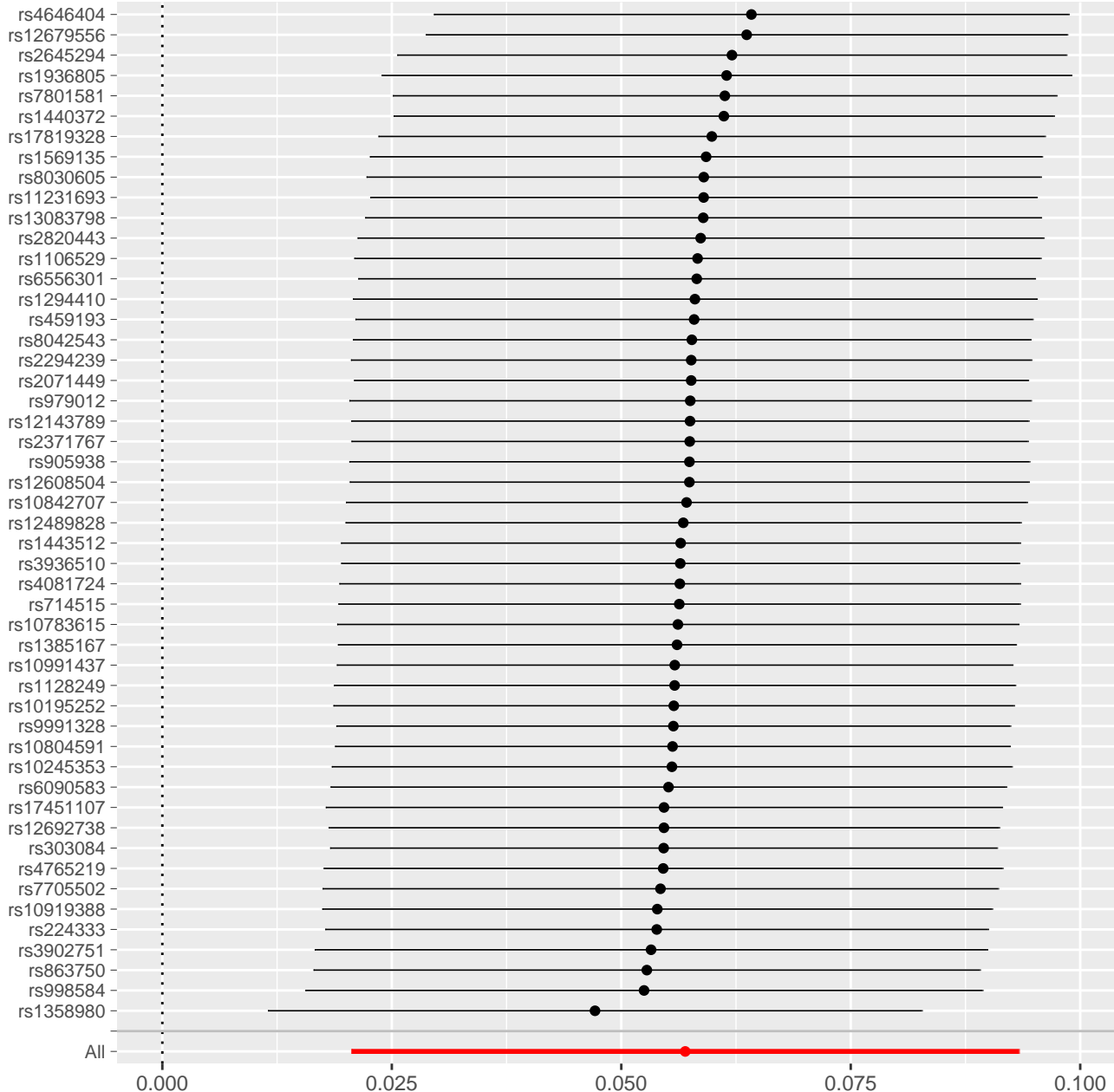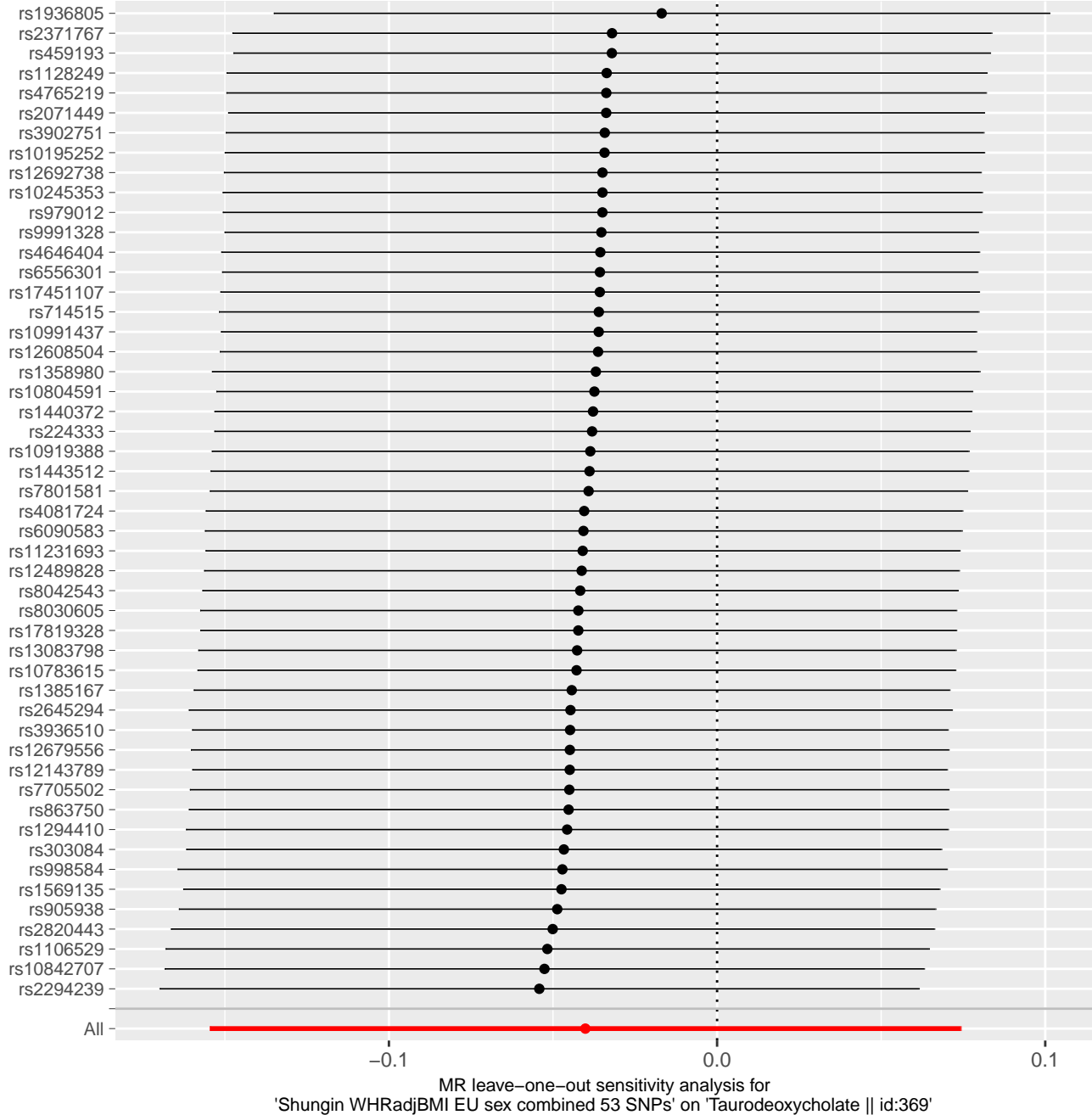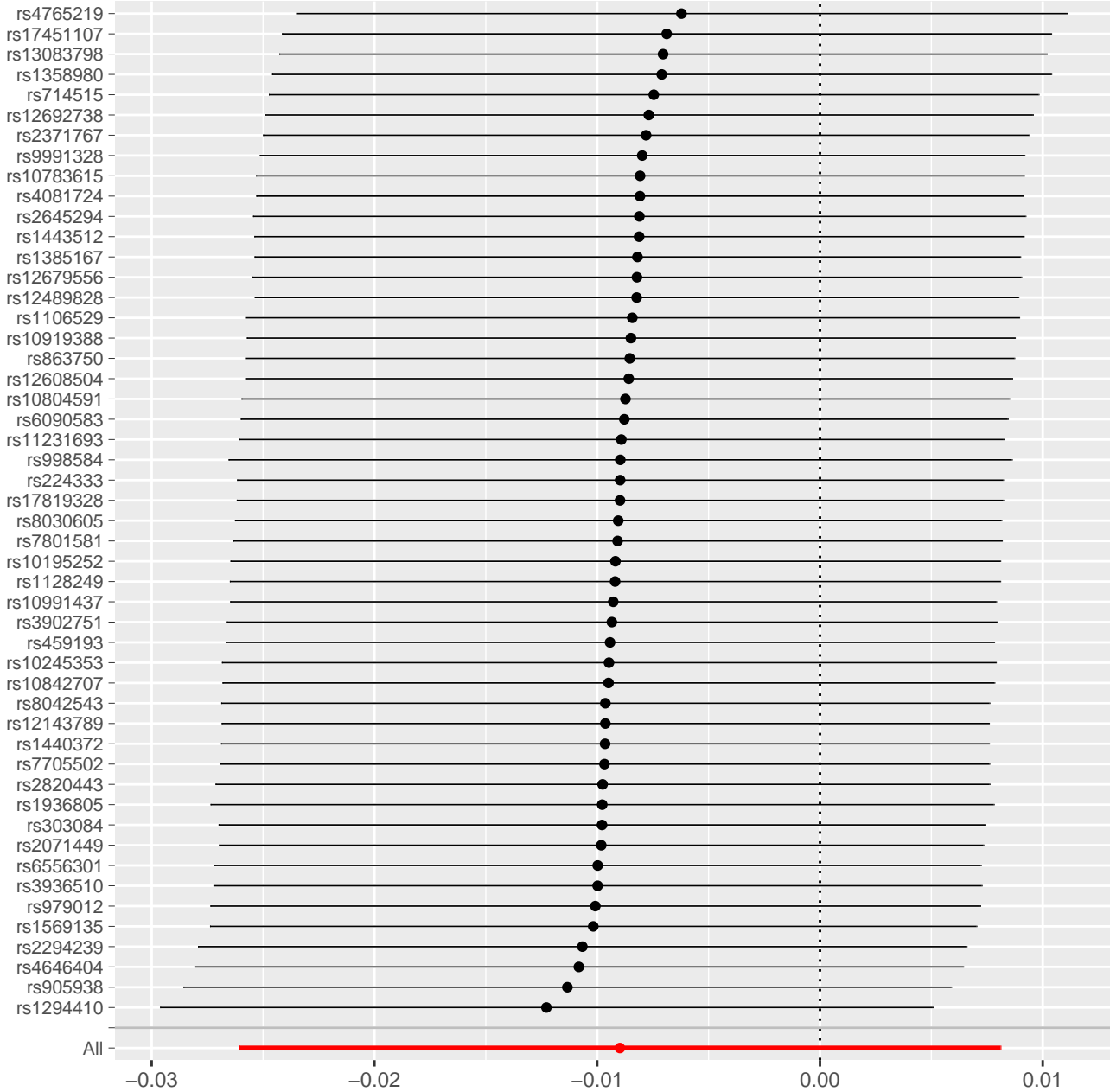'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−02973 || id:370'

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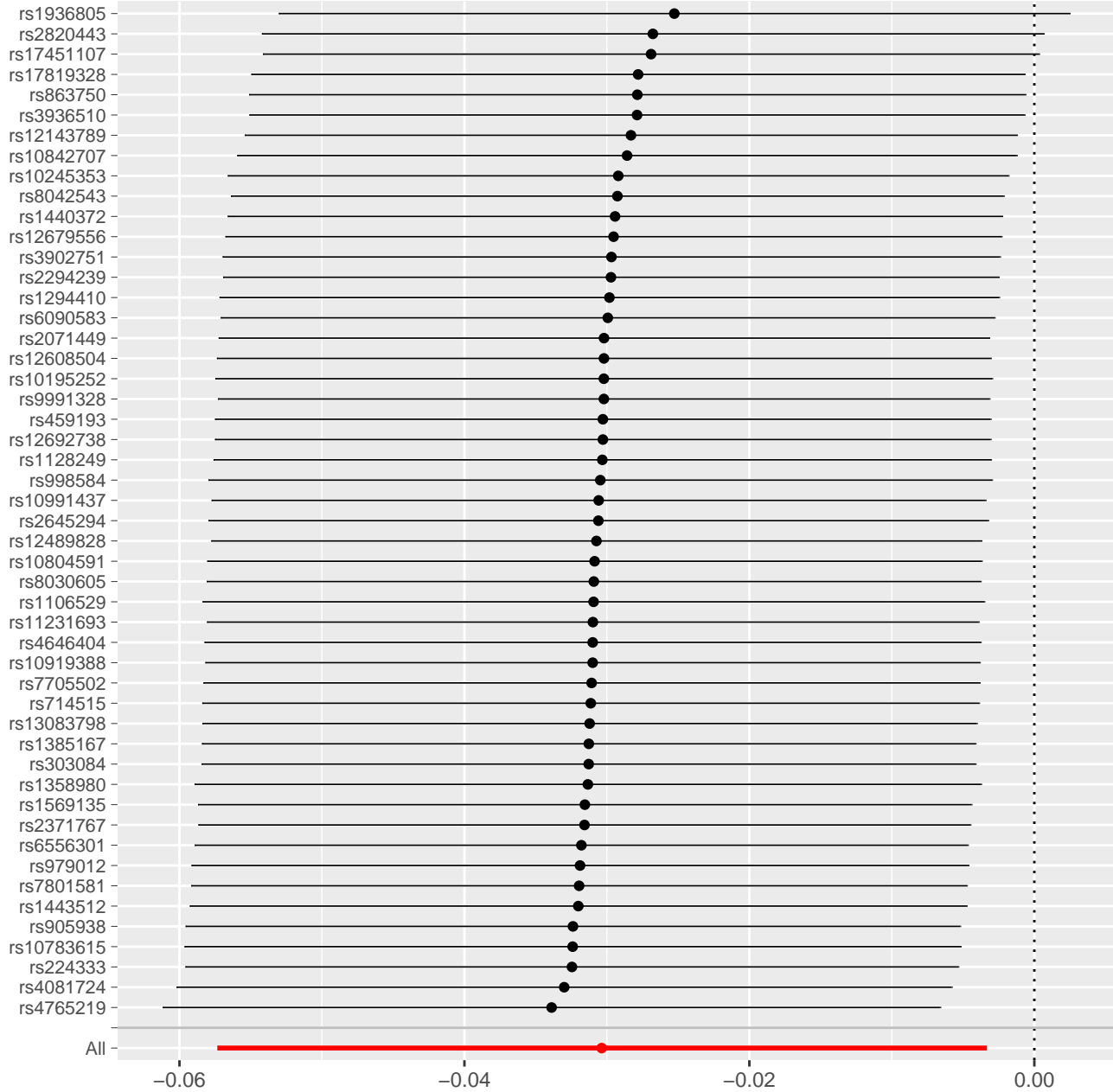'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Glycerol || id:374'

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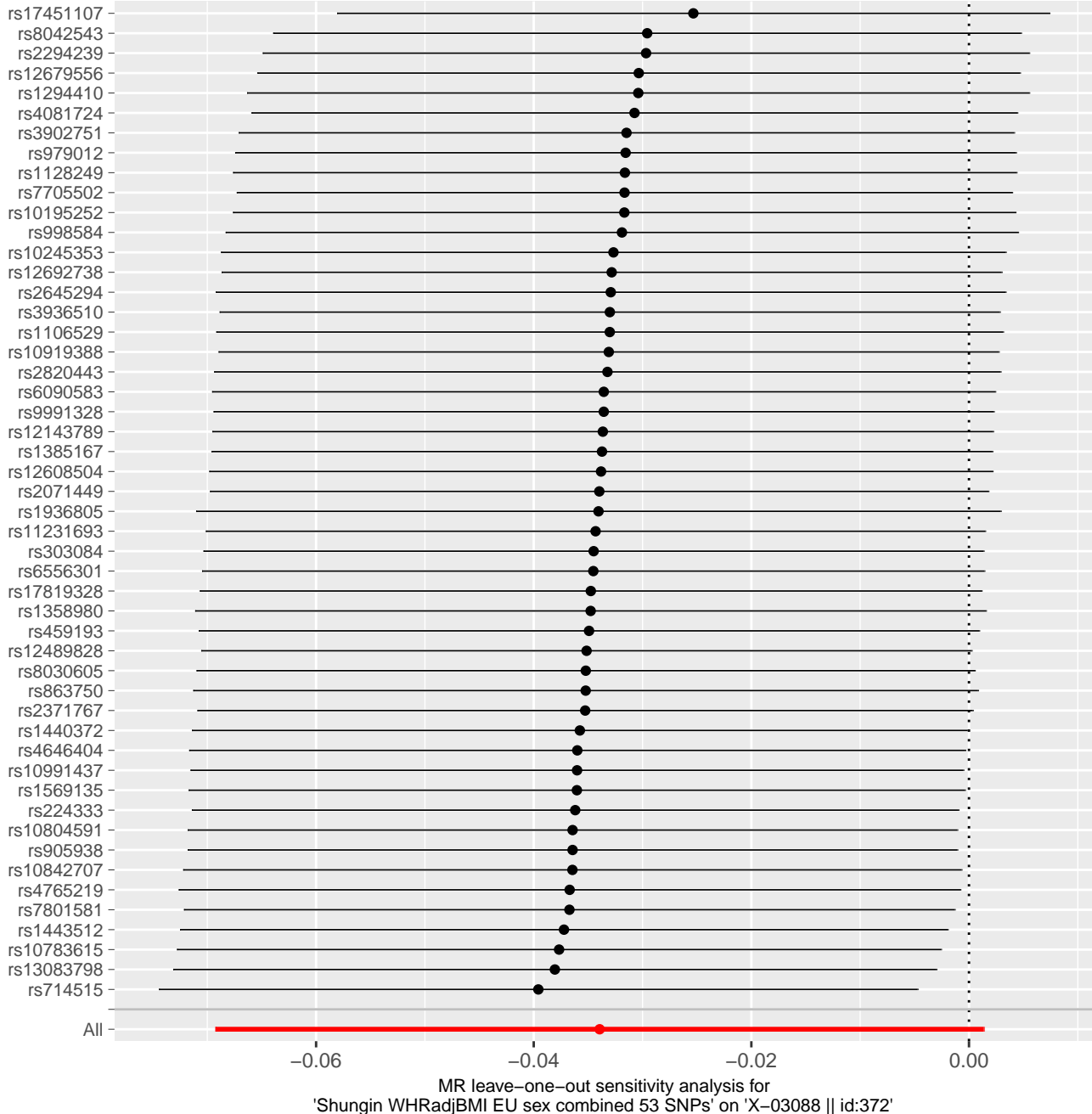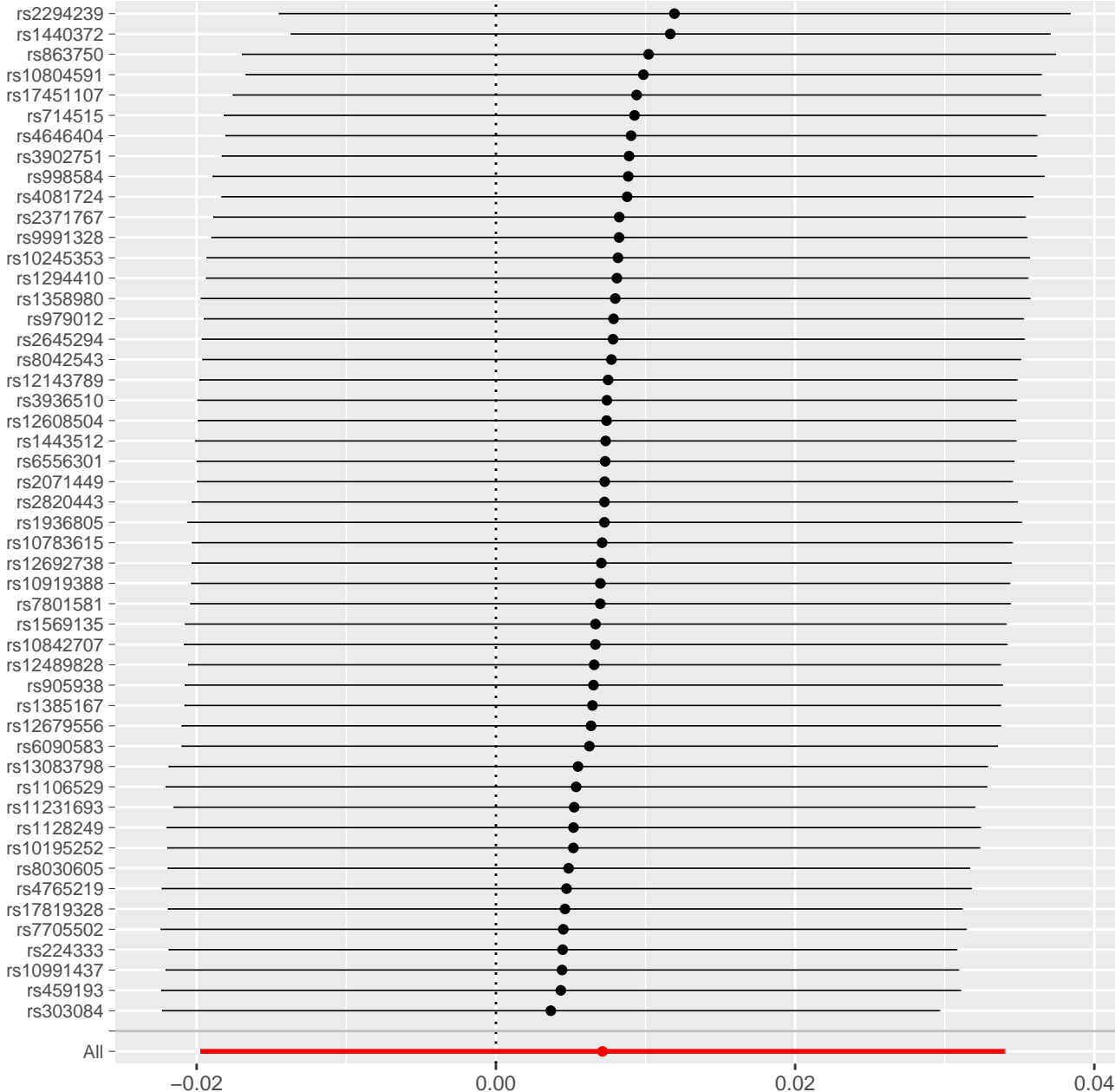'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Kynurenine || id:375'

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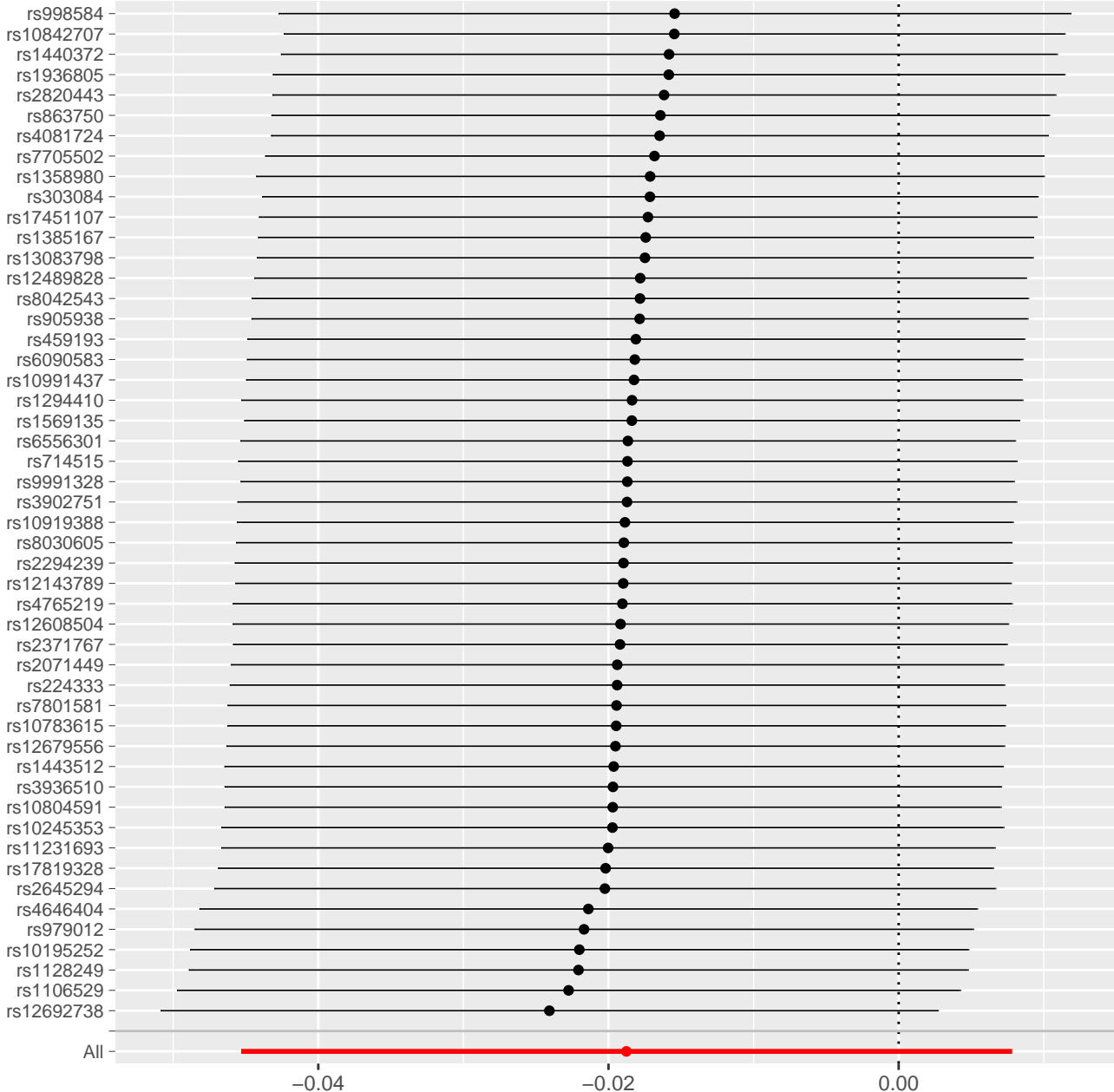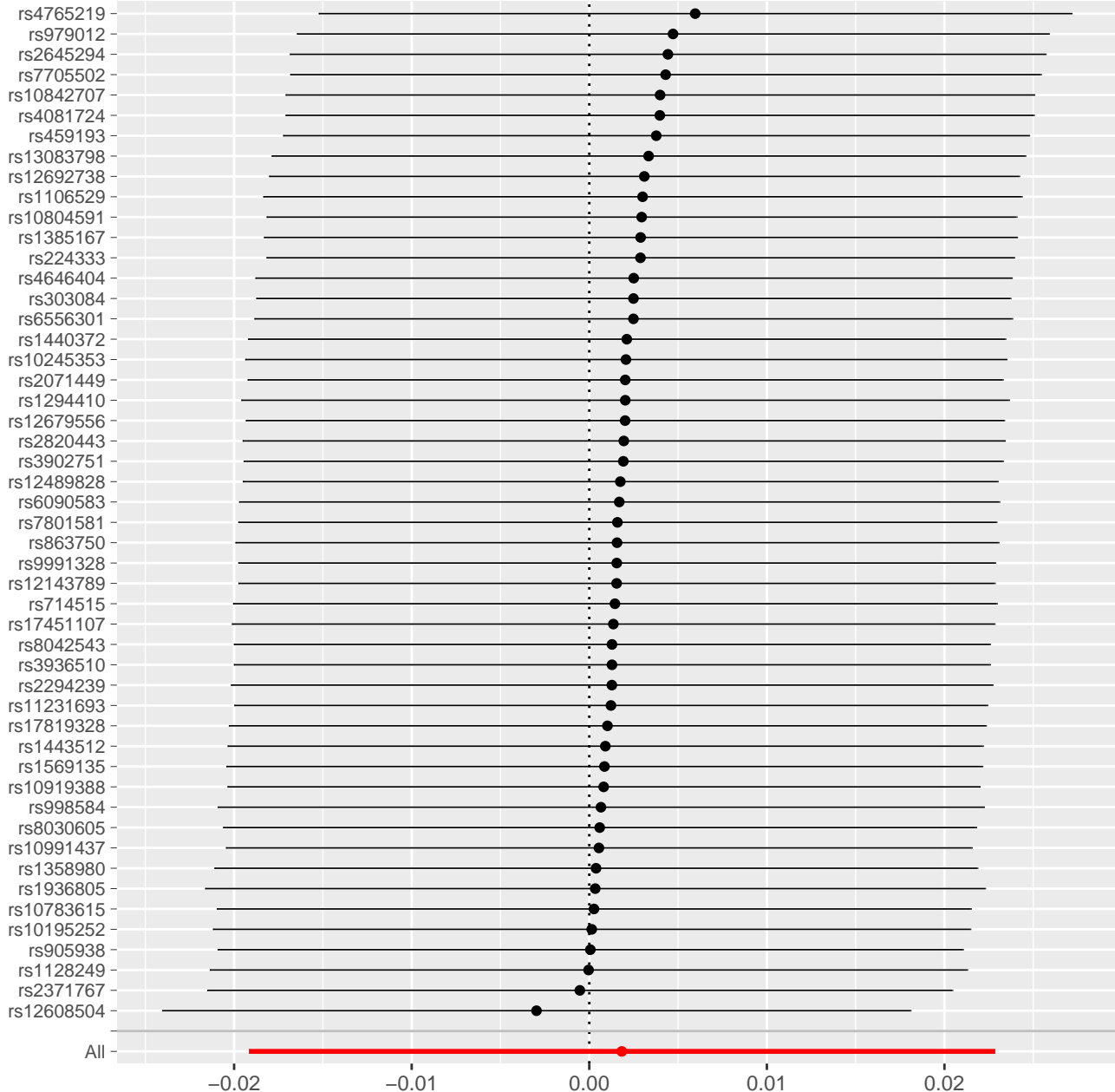'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Mannitol || id:376'

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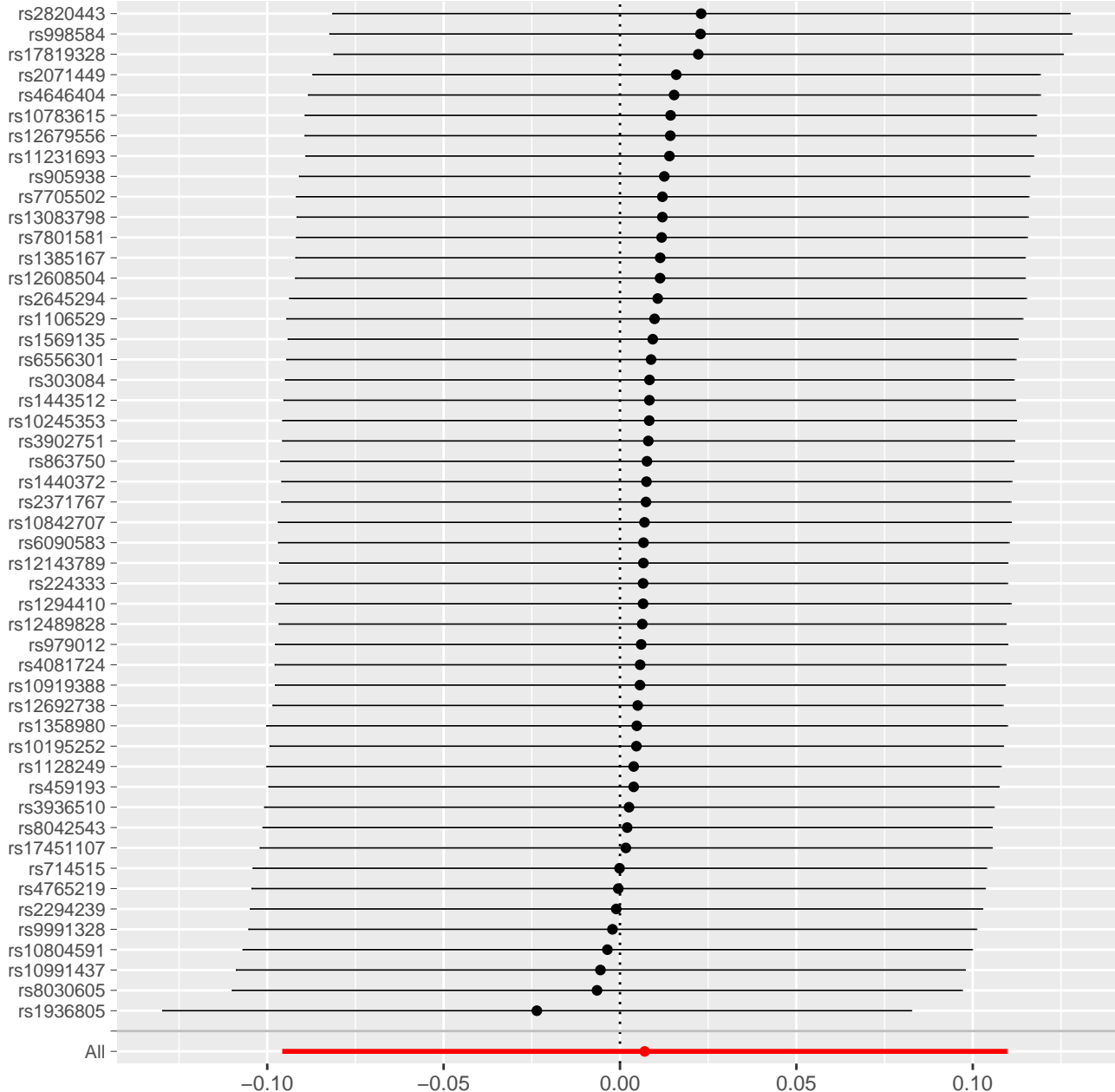'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Acetylphosphate || id:378'
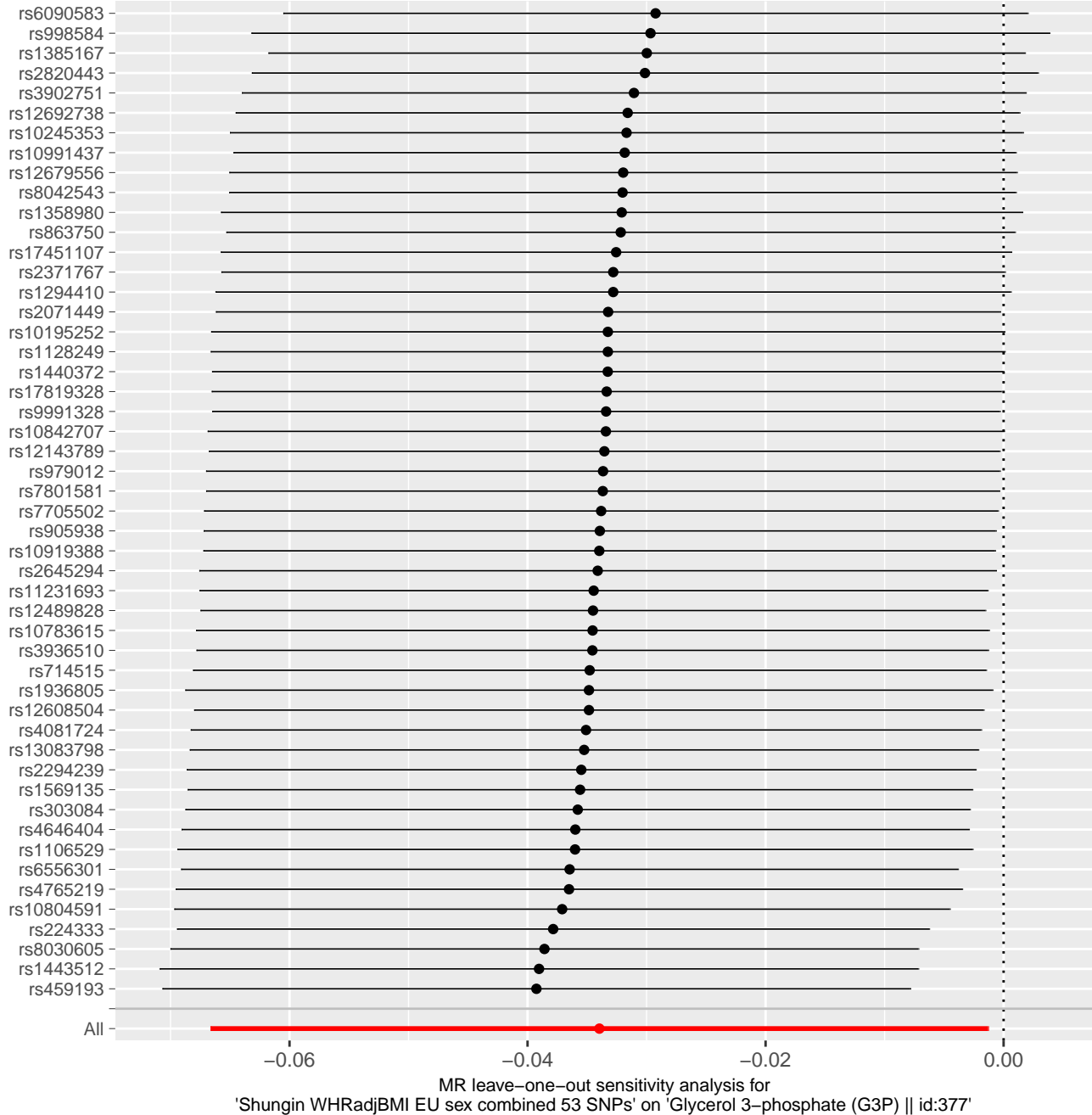
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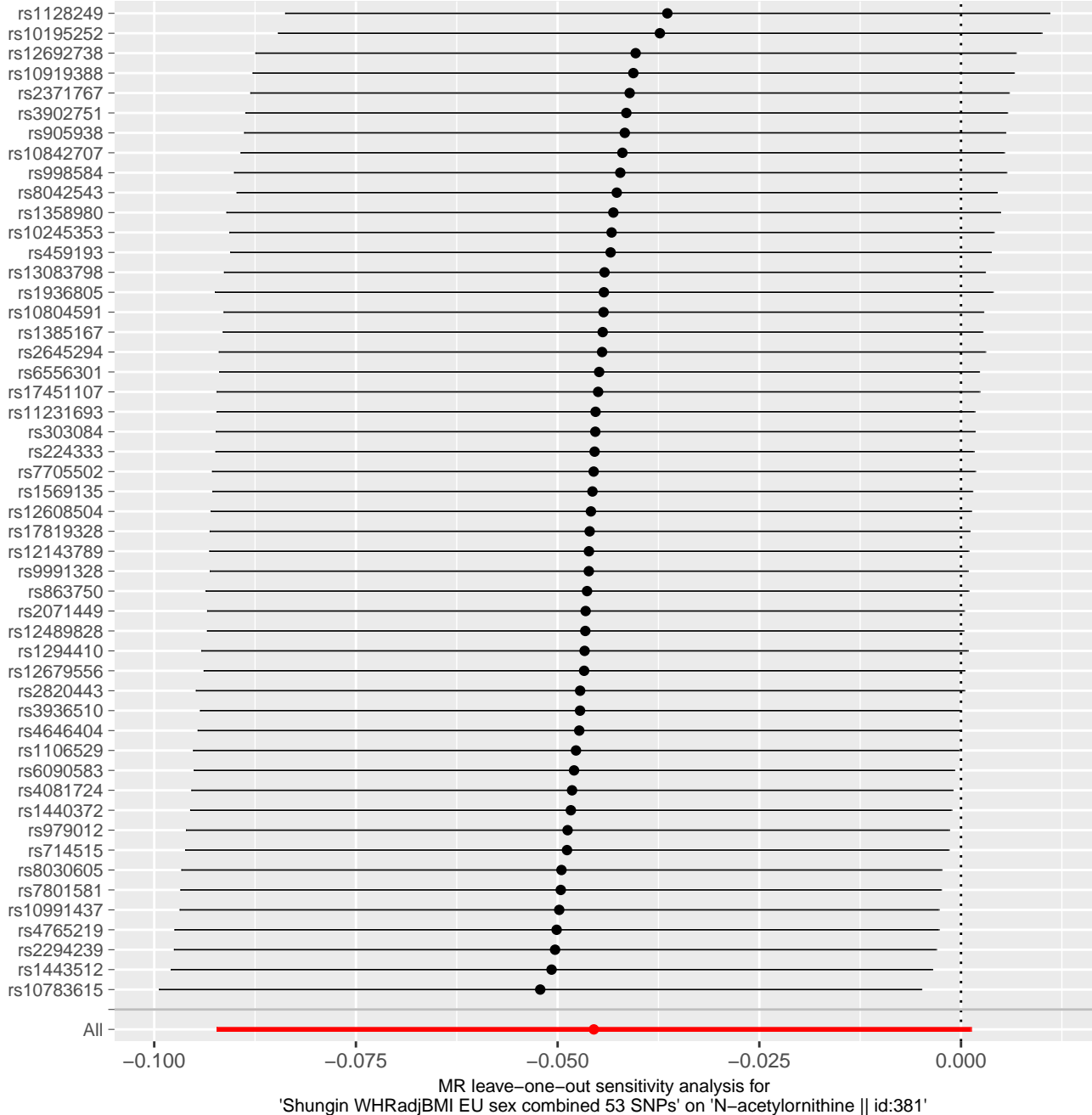'Shungin WHRadjBMI EU sex combined 53 SNPs' on '3−methylhistidine || id:384'

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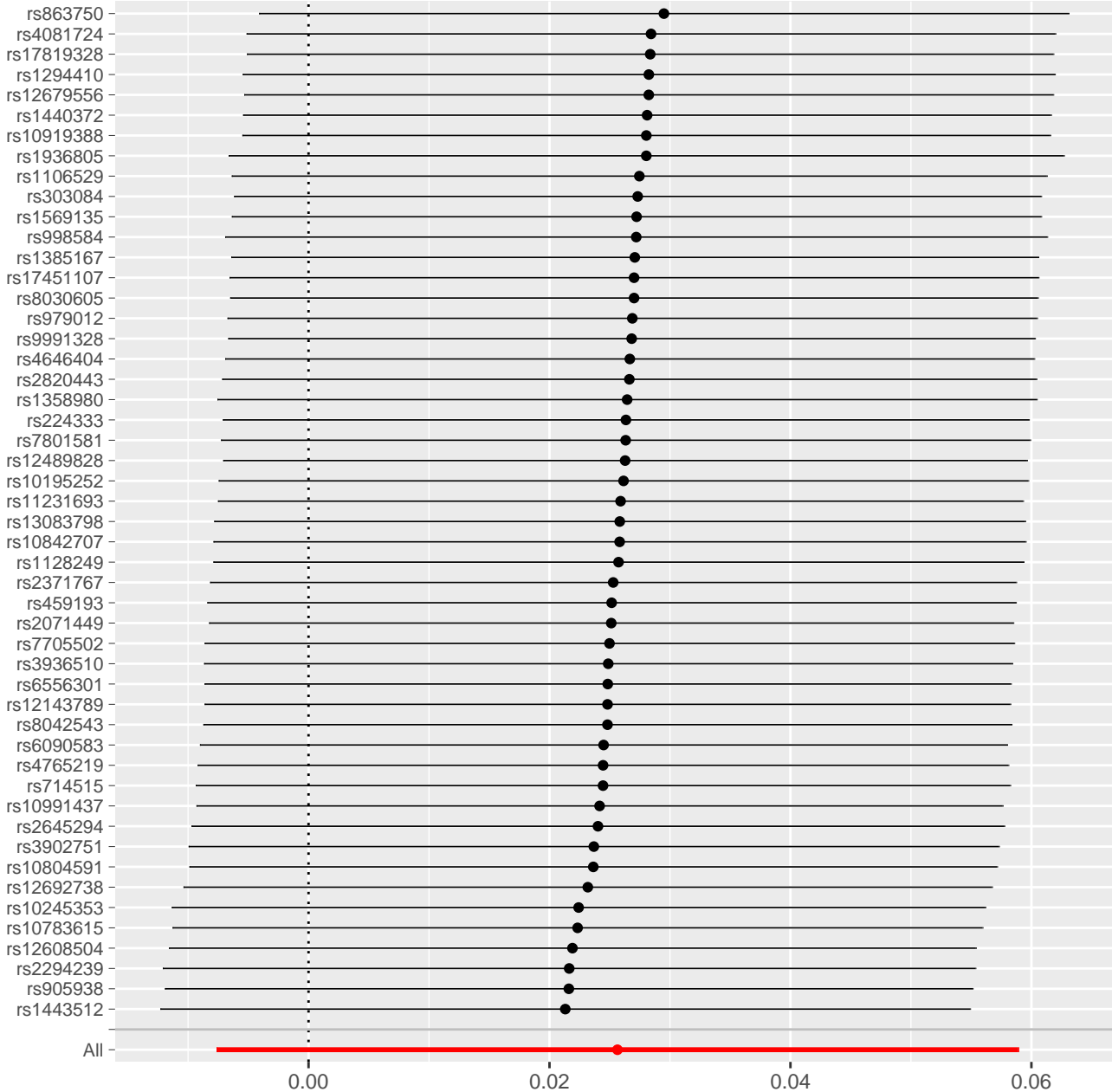'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Aspartate || id:388'

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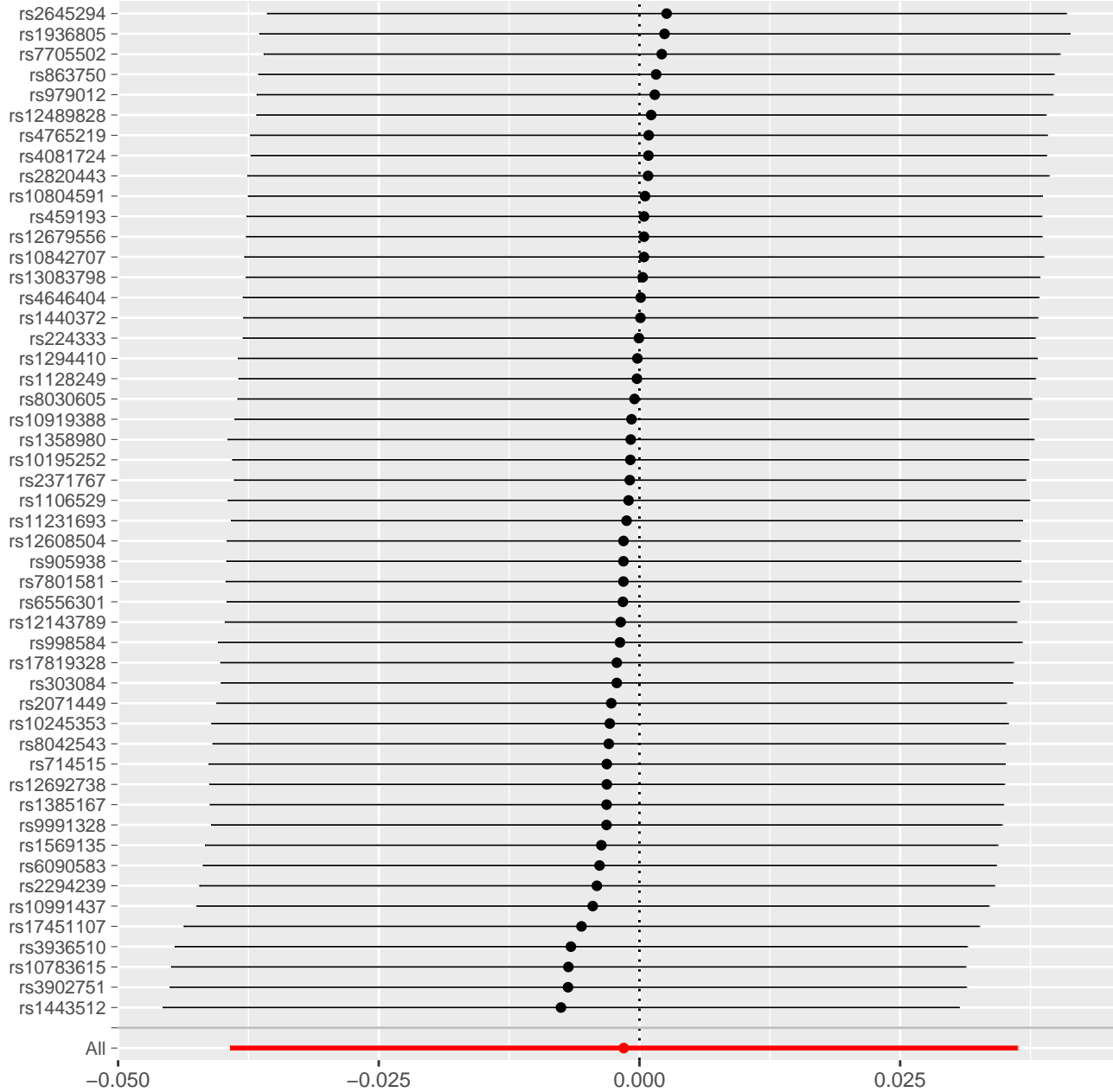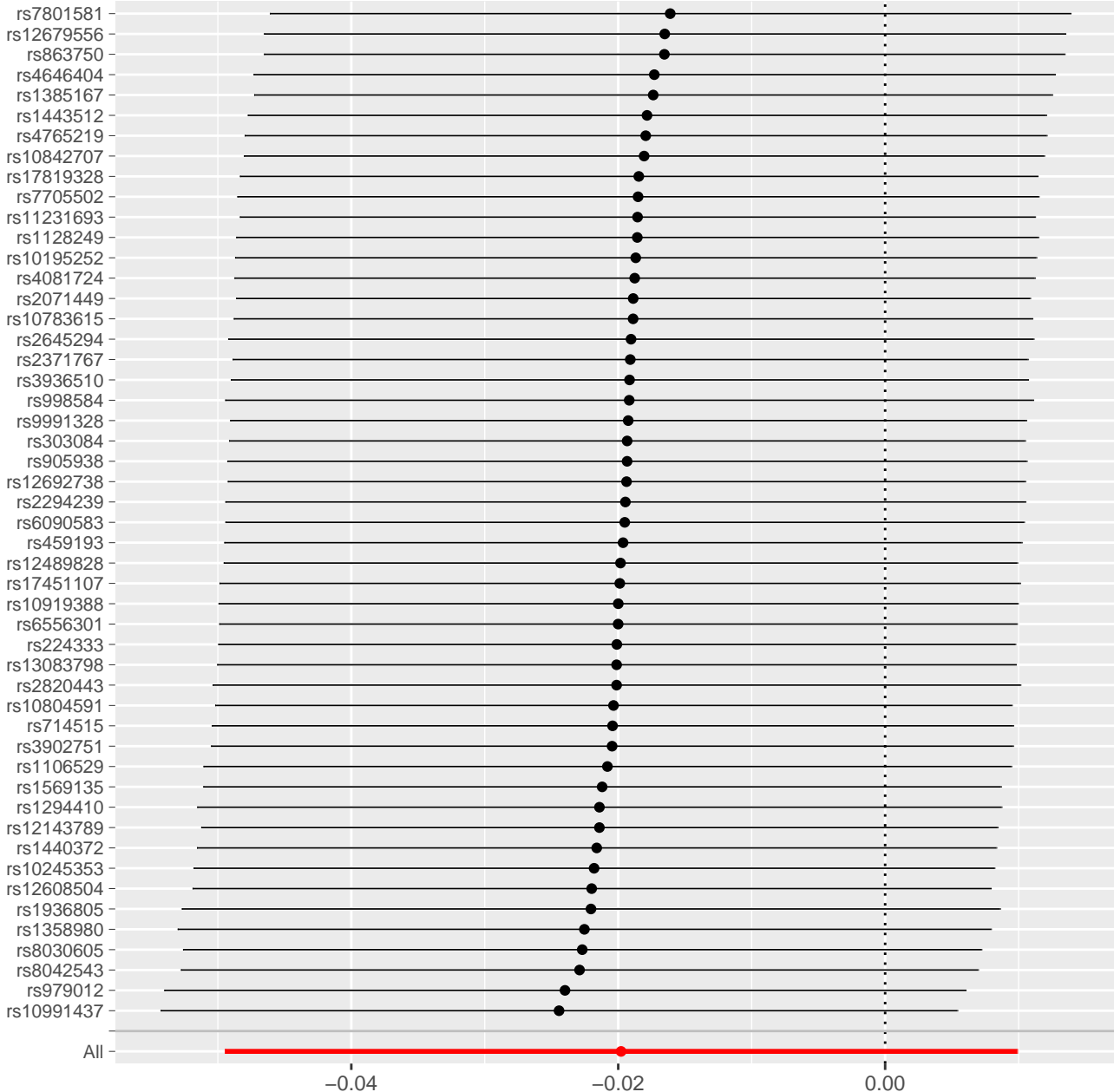'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−04357 || id:389'

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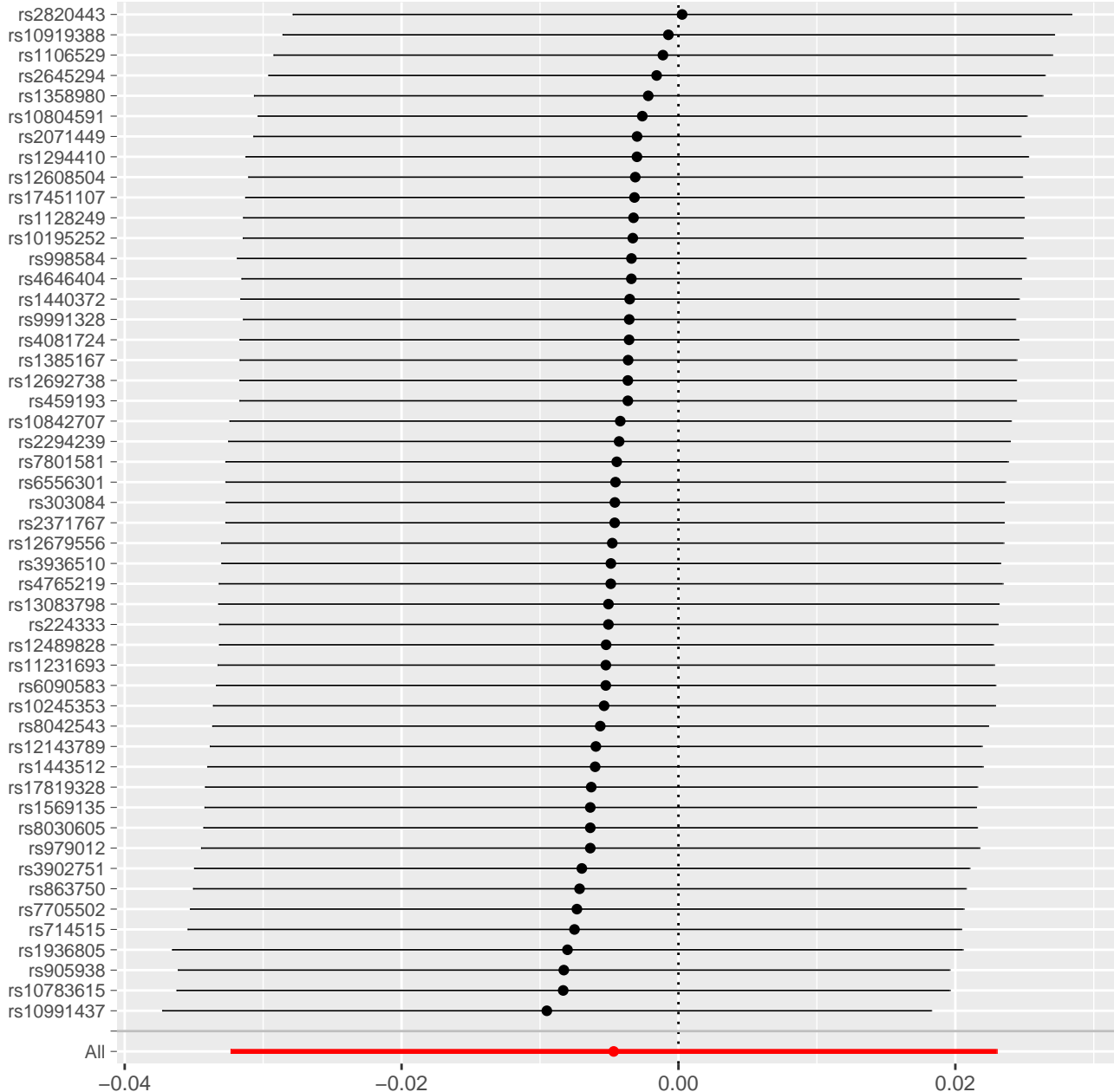'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−04495 || id:391'

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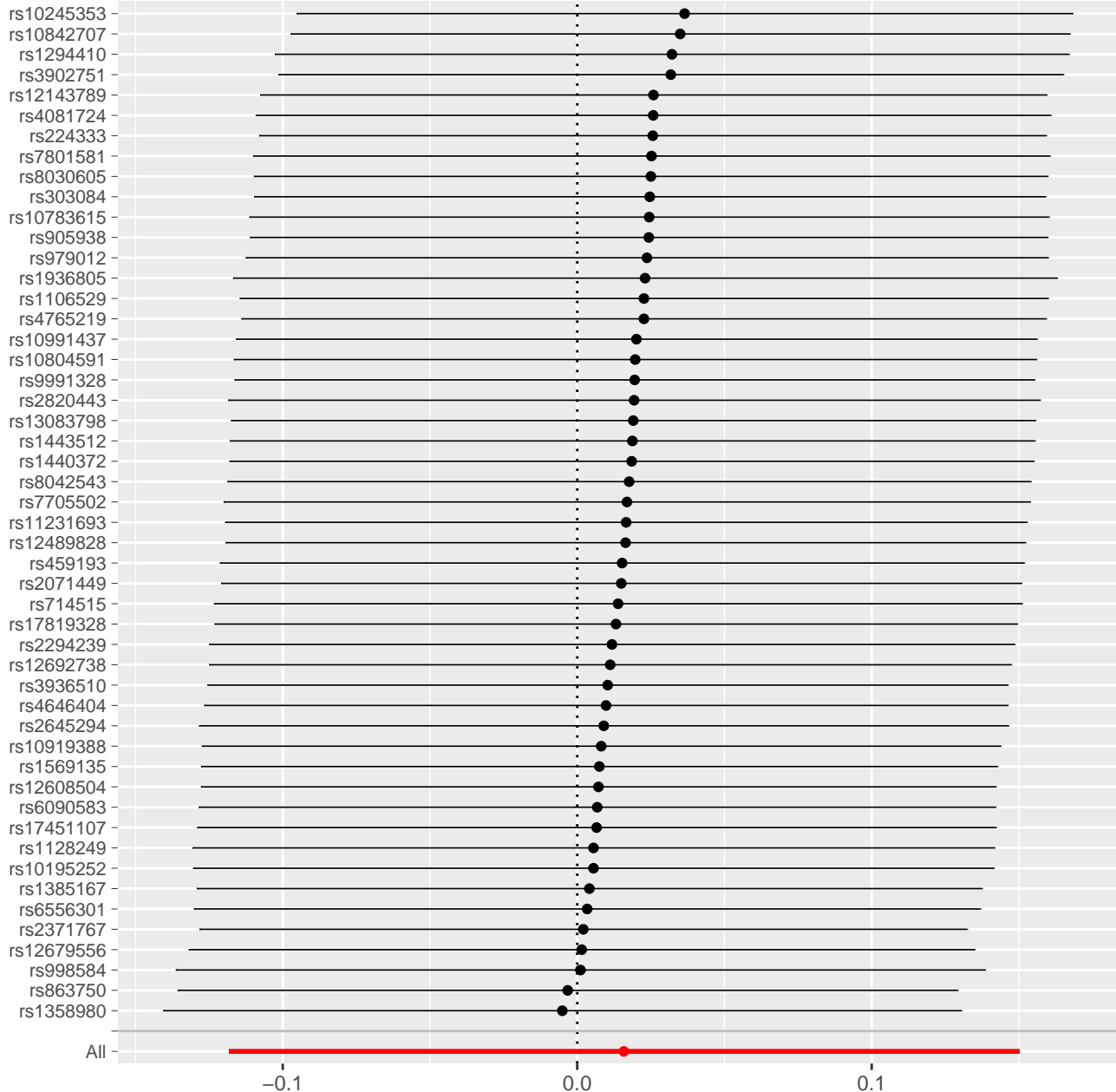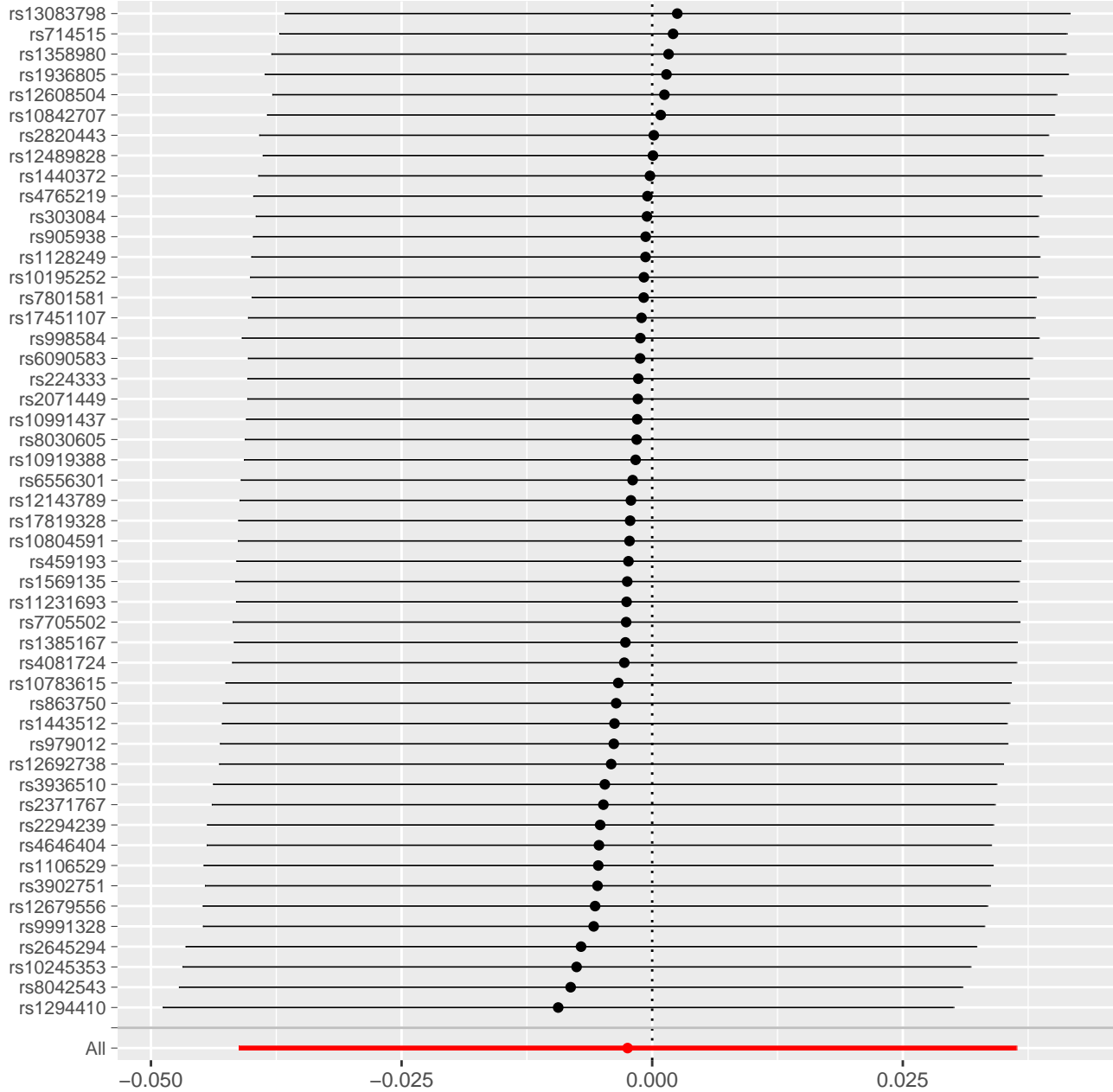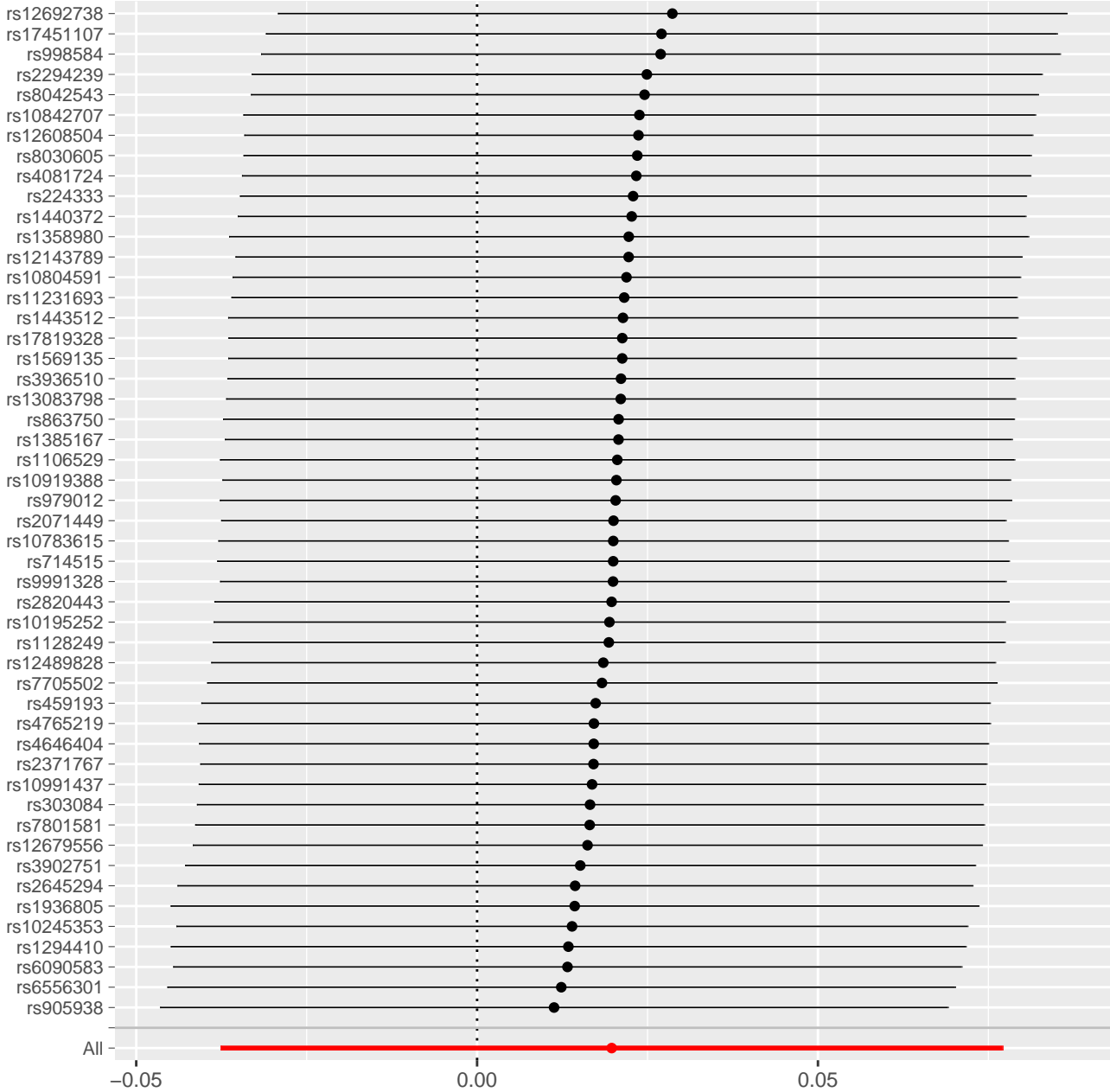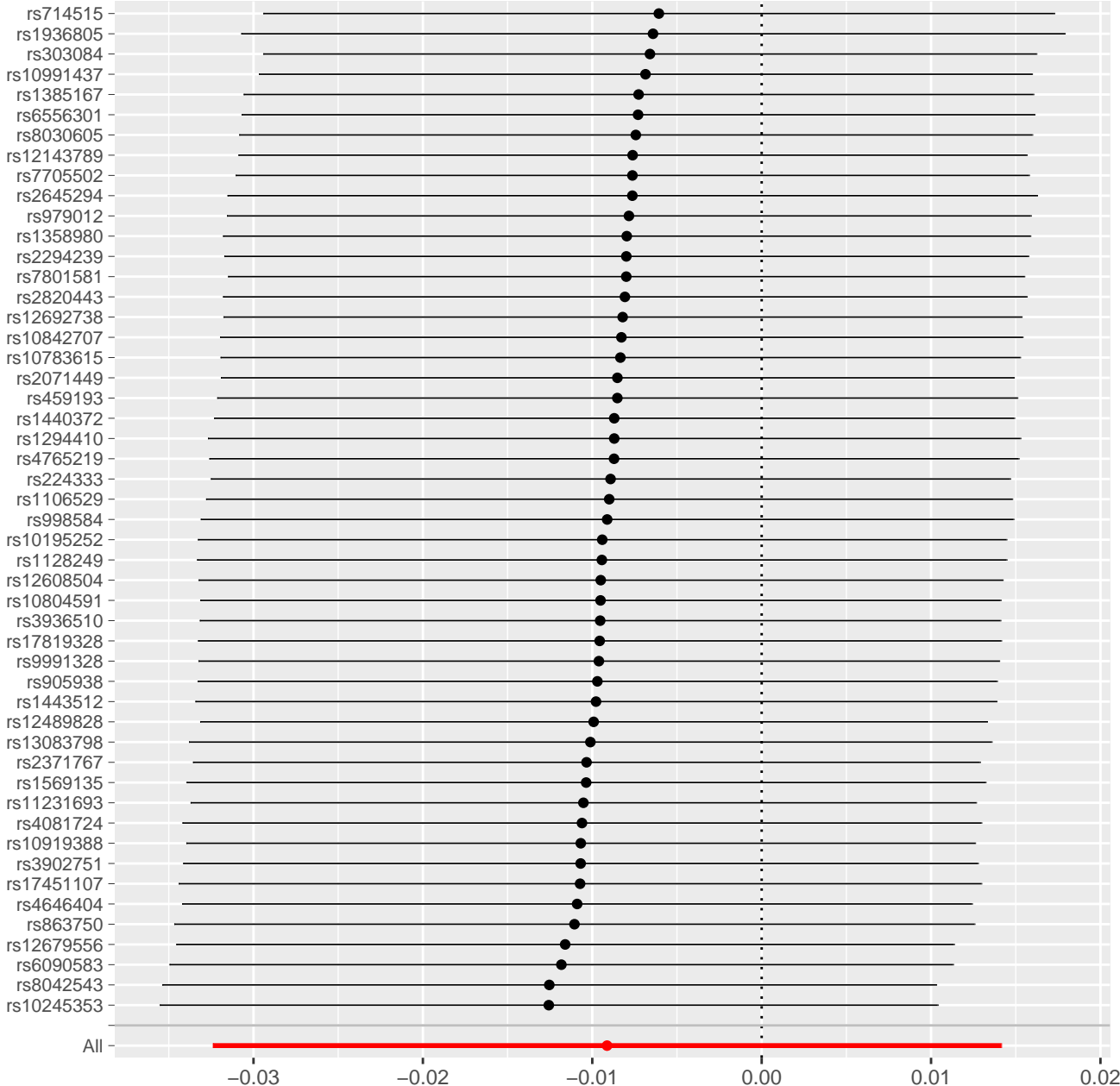
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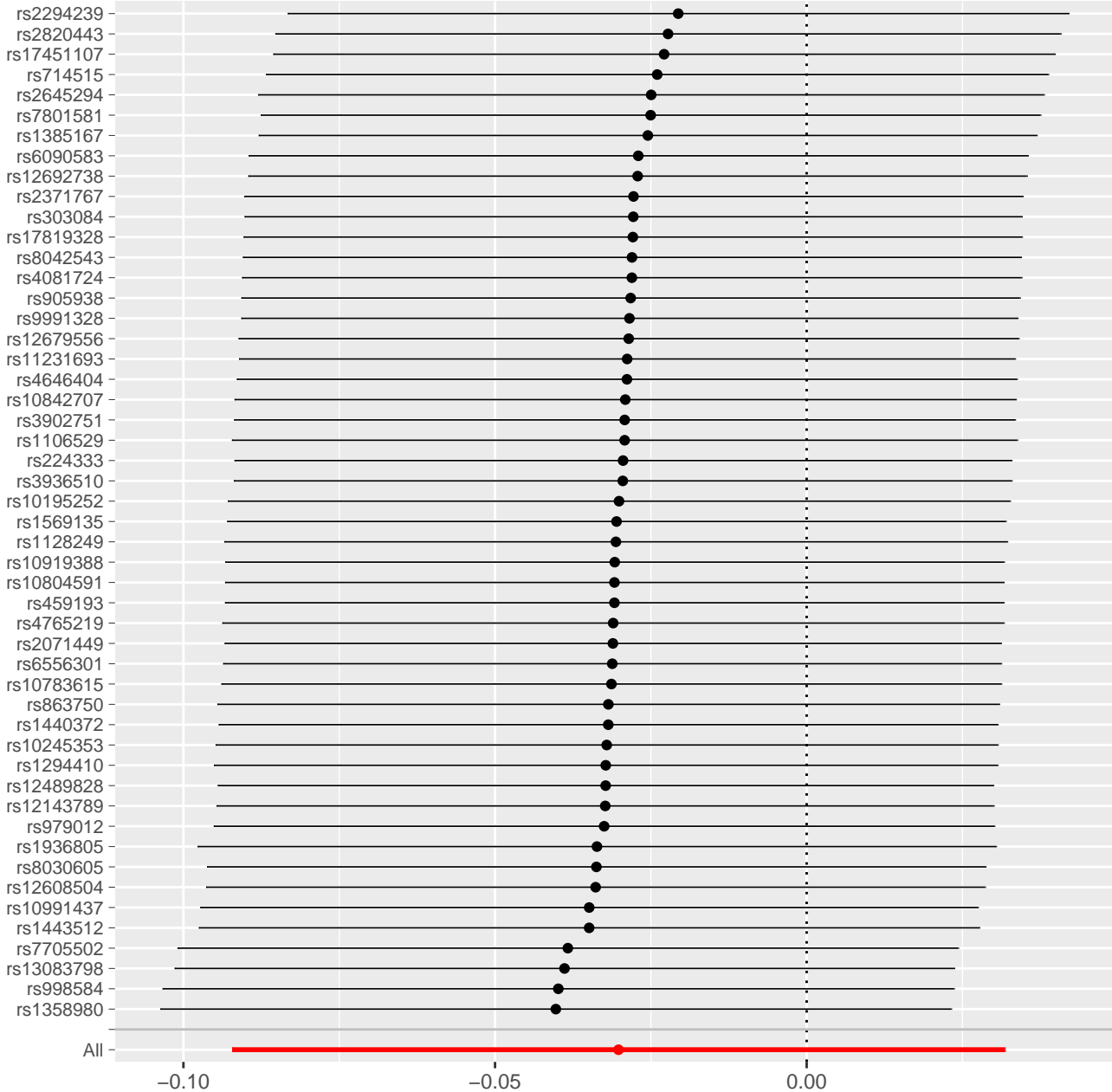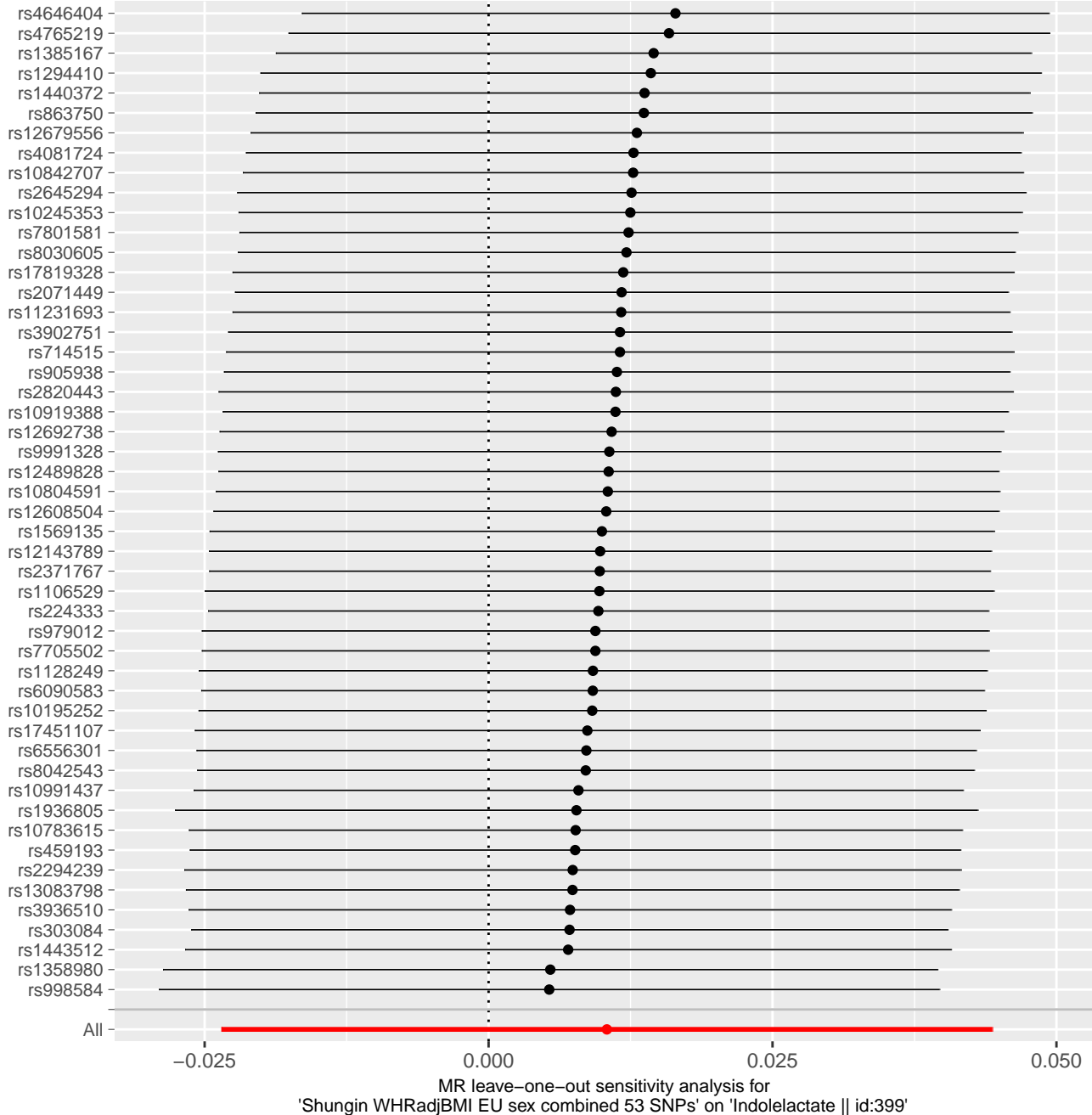
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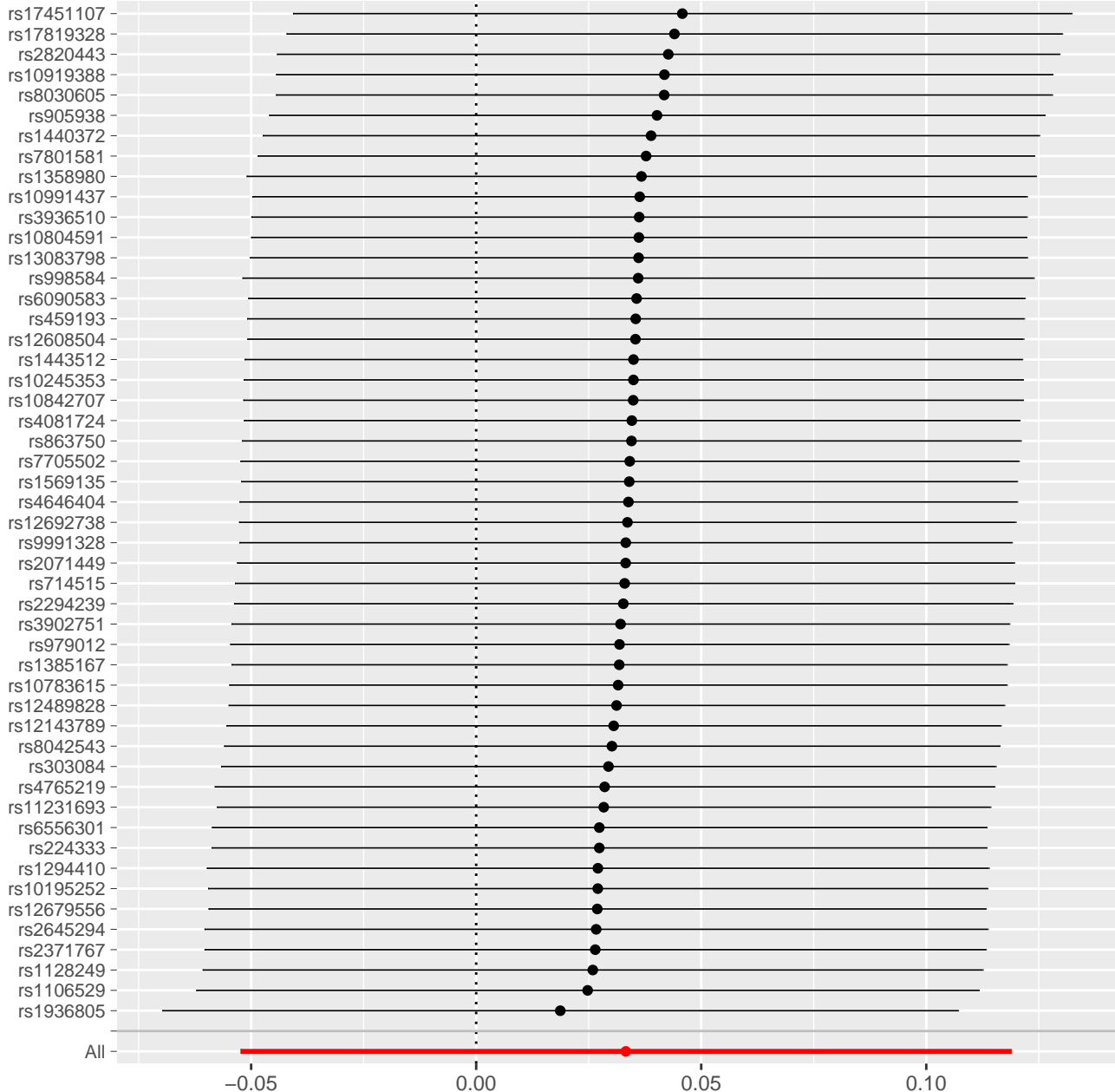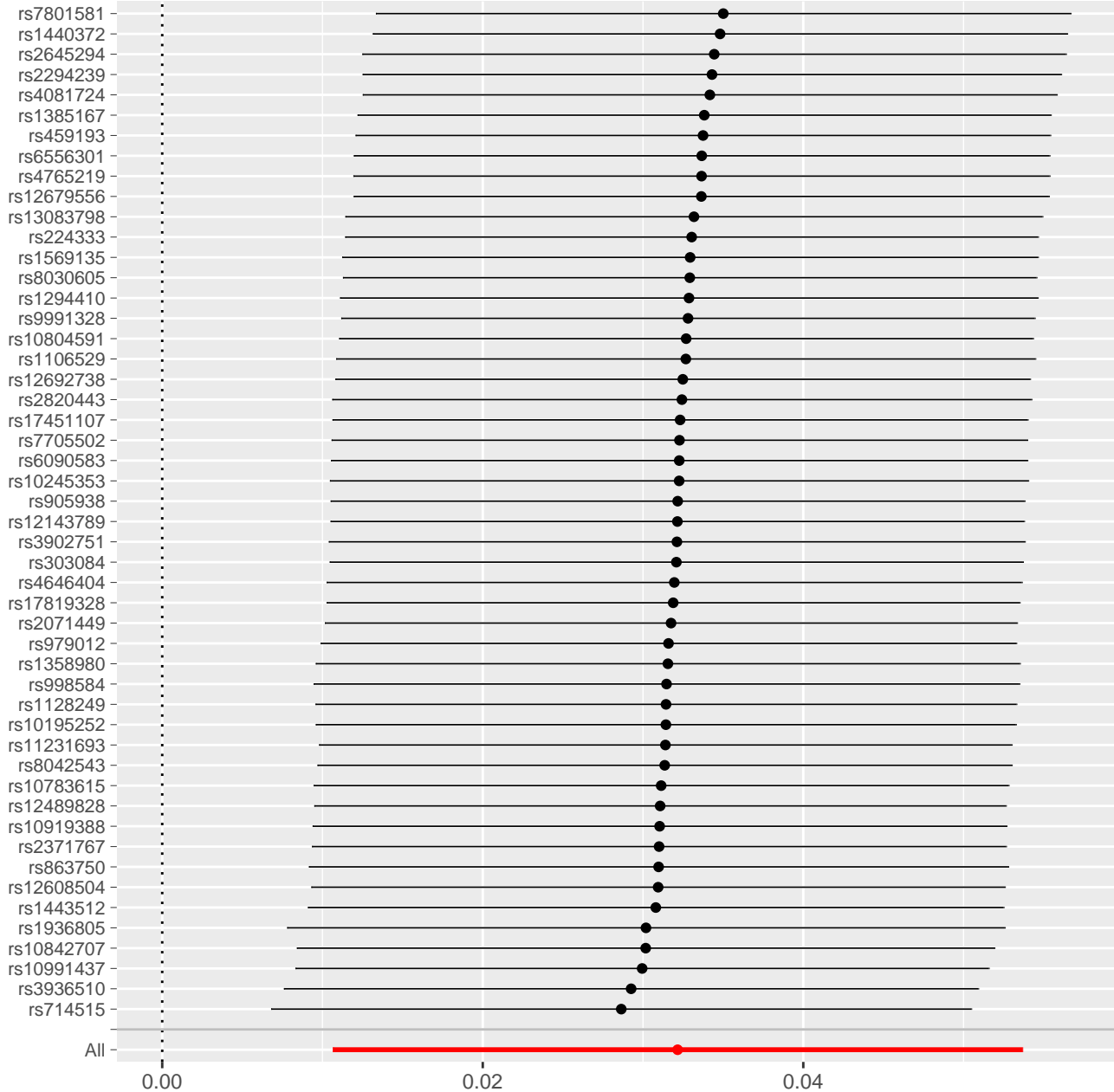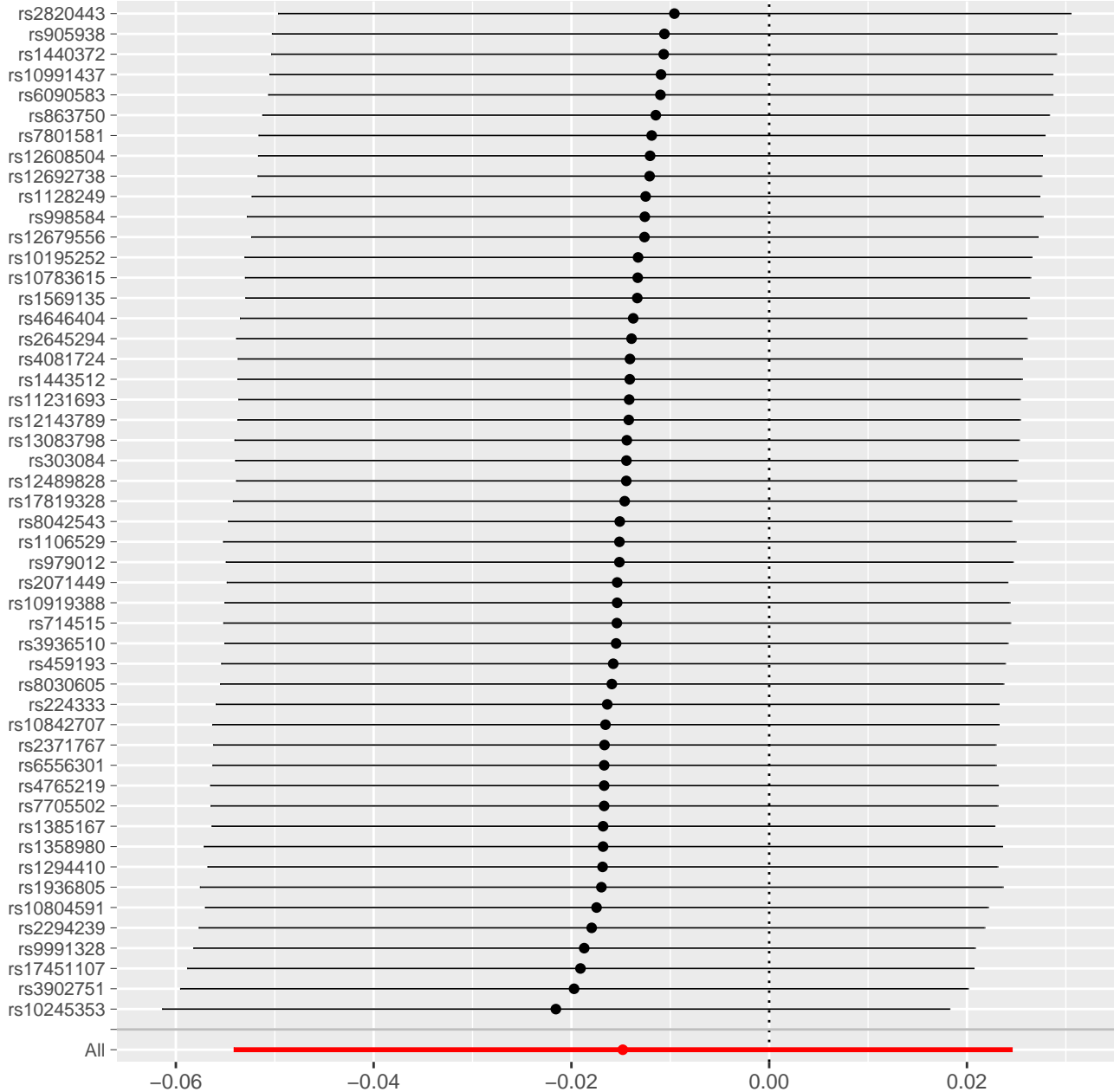'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−hydroxystearate || id:397'

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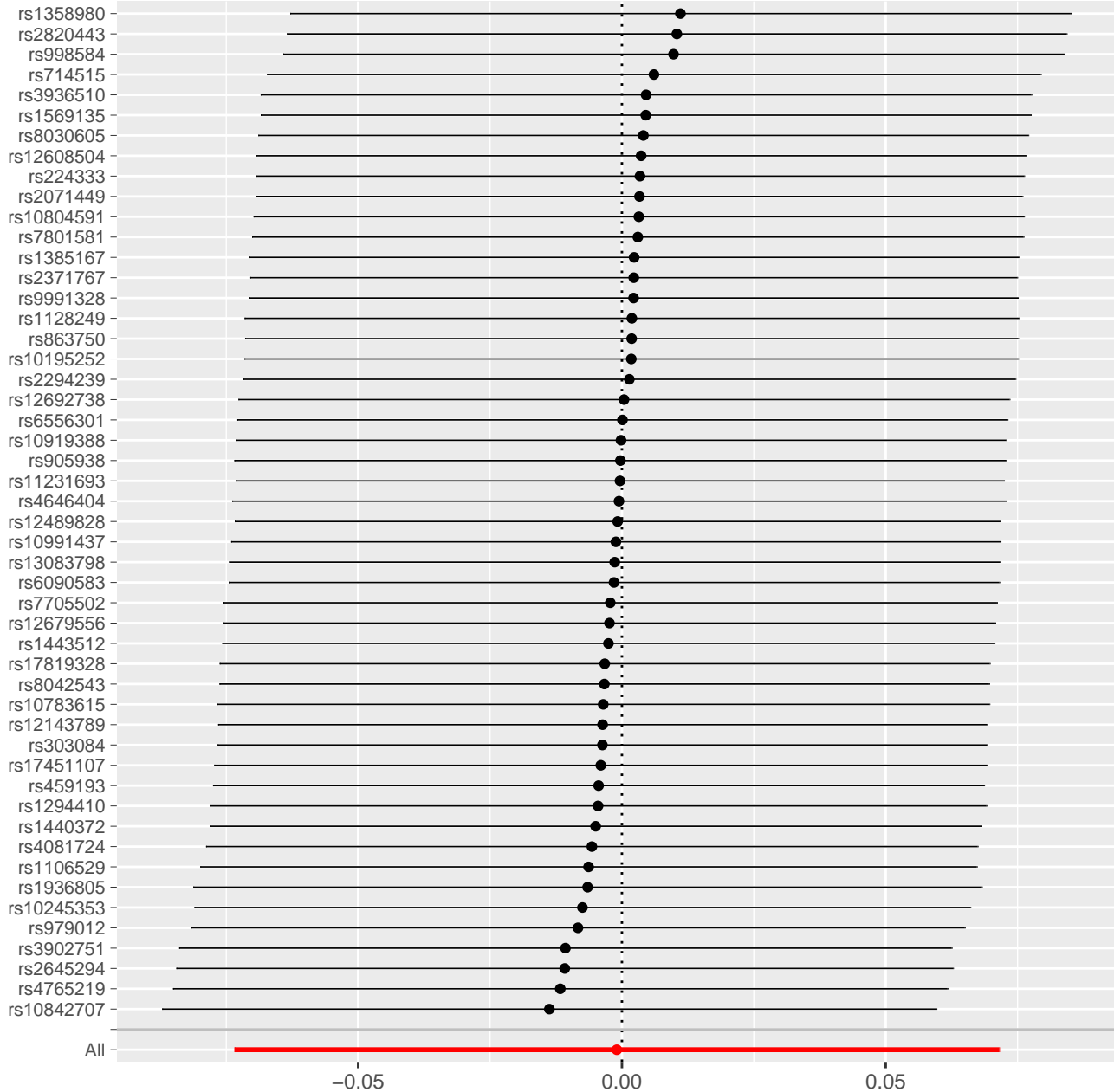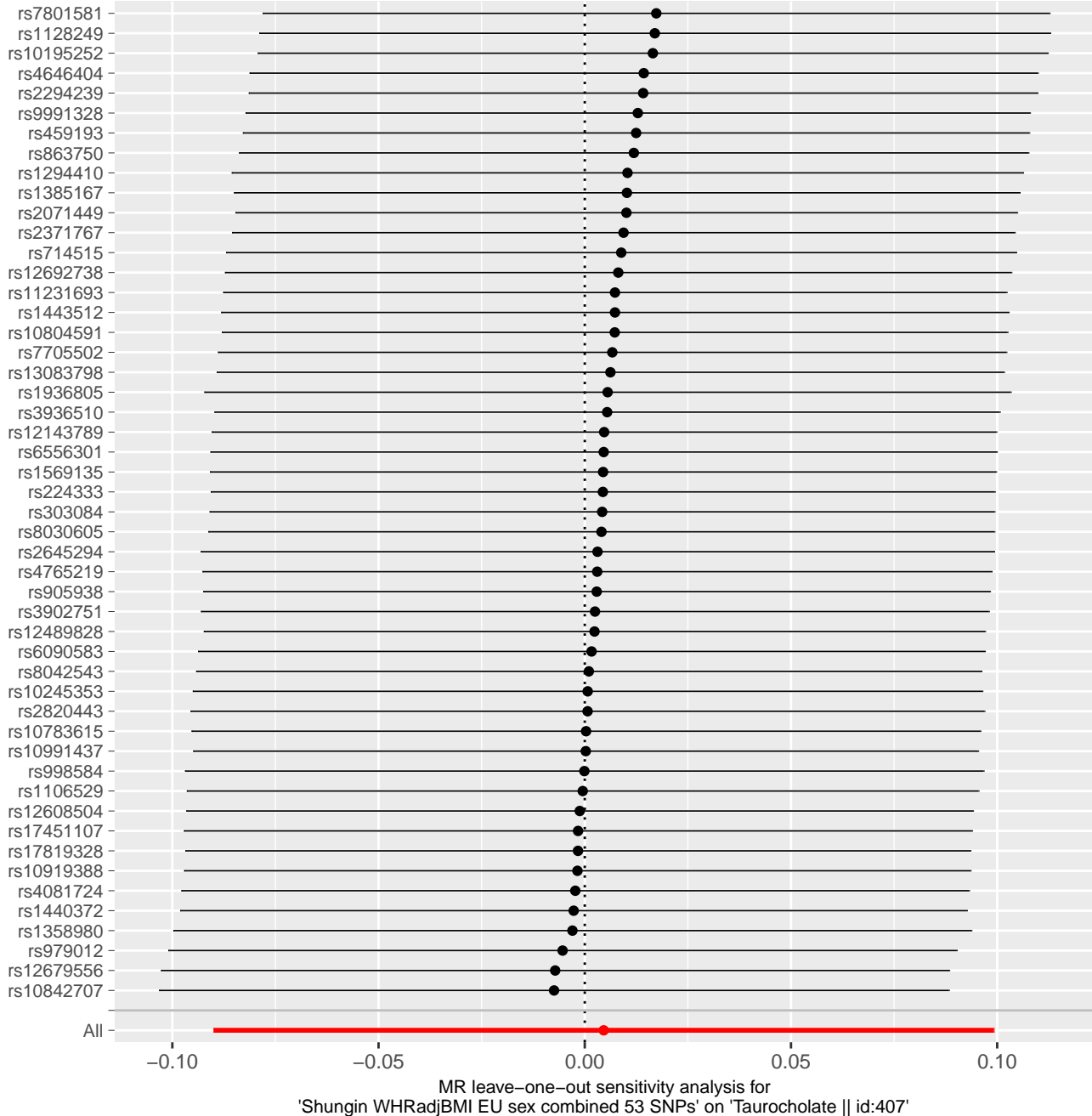'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Glycodeoxycholate || id:405'

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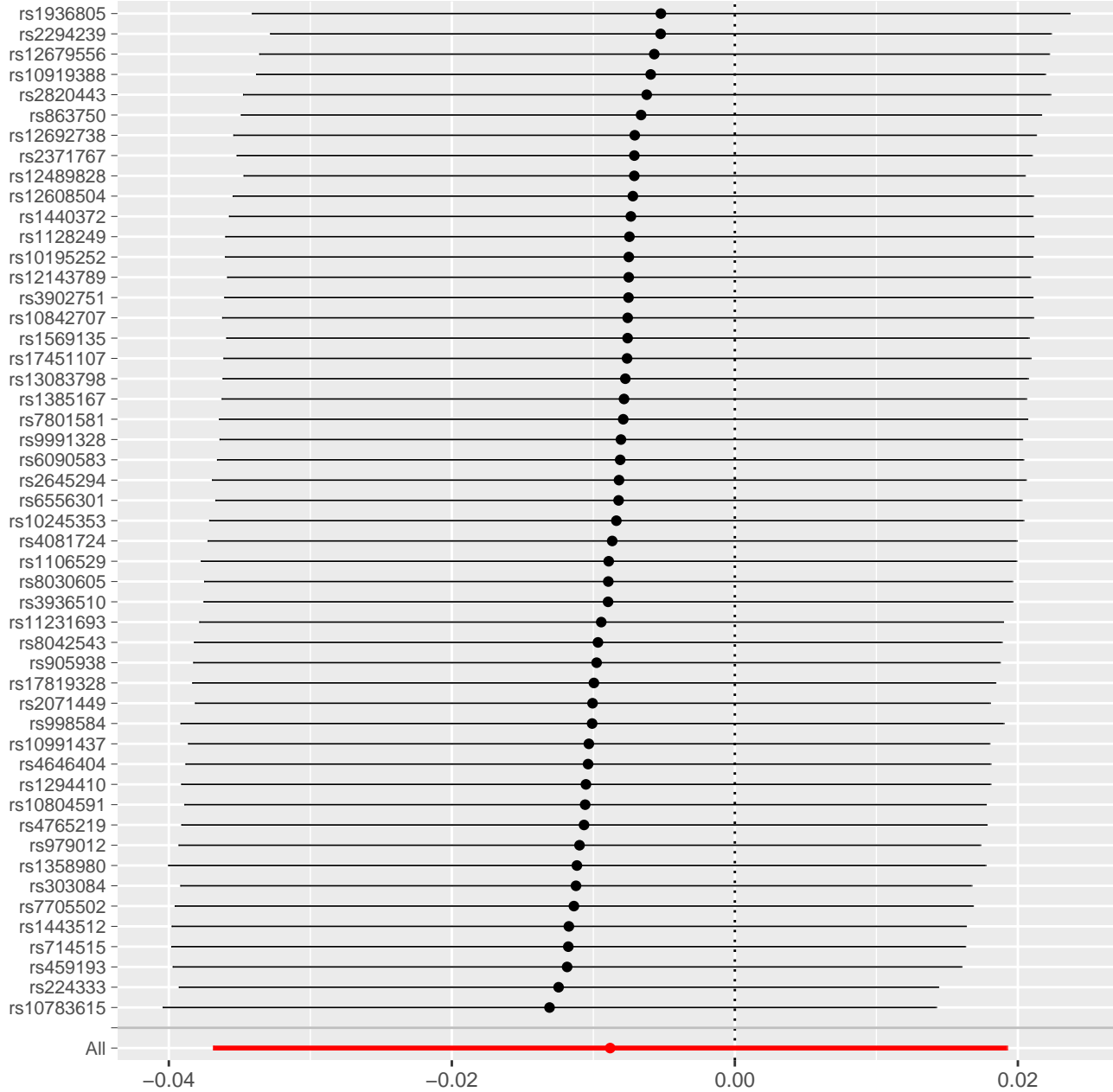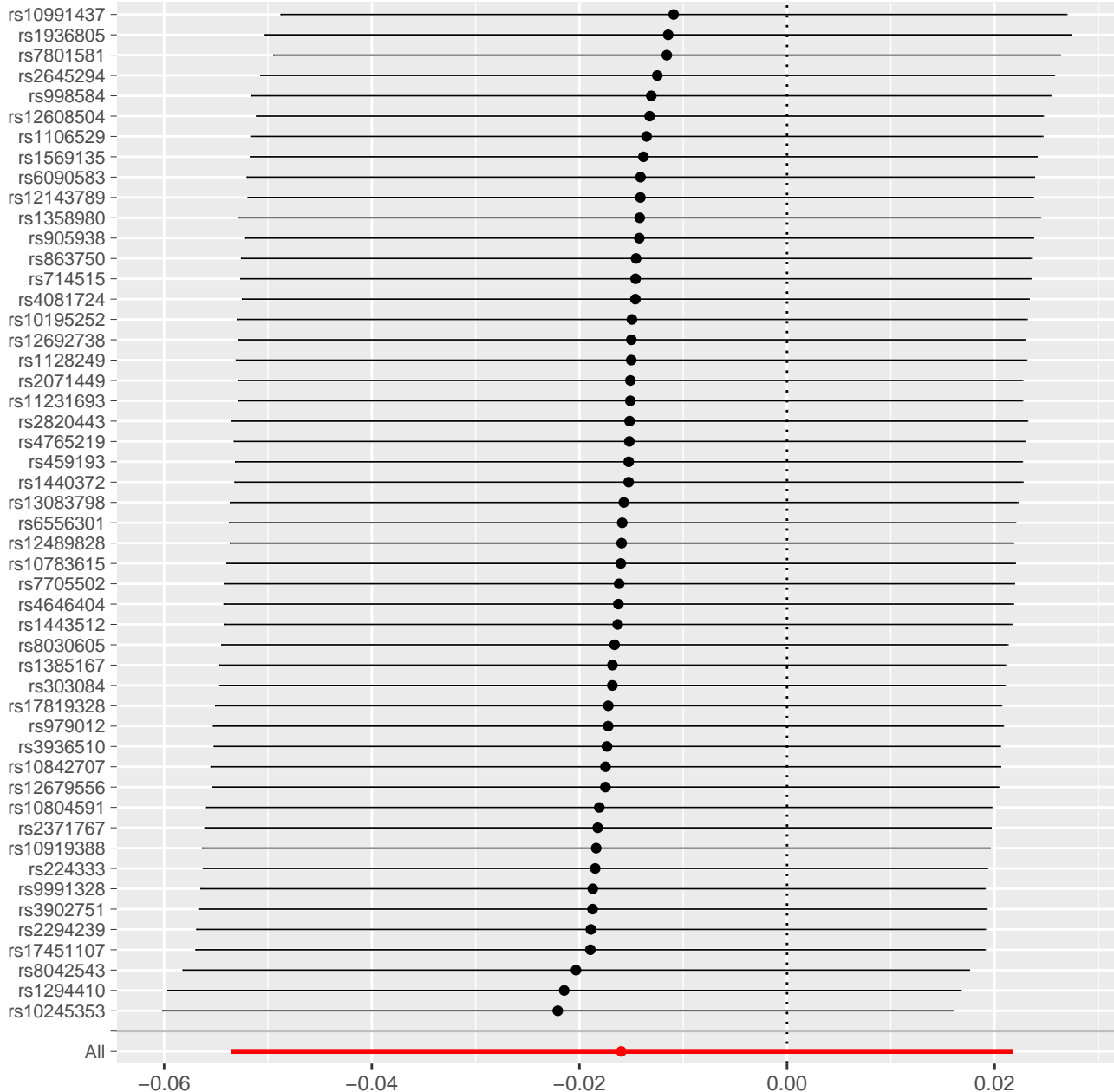'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Taurochenodeoxycholate || id:406'

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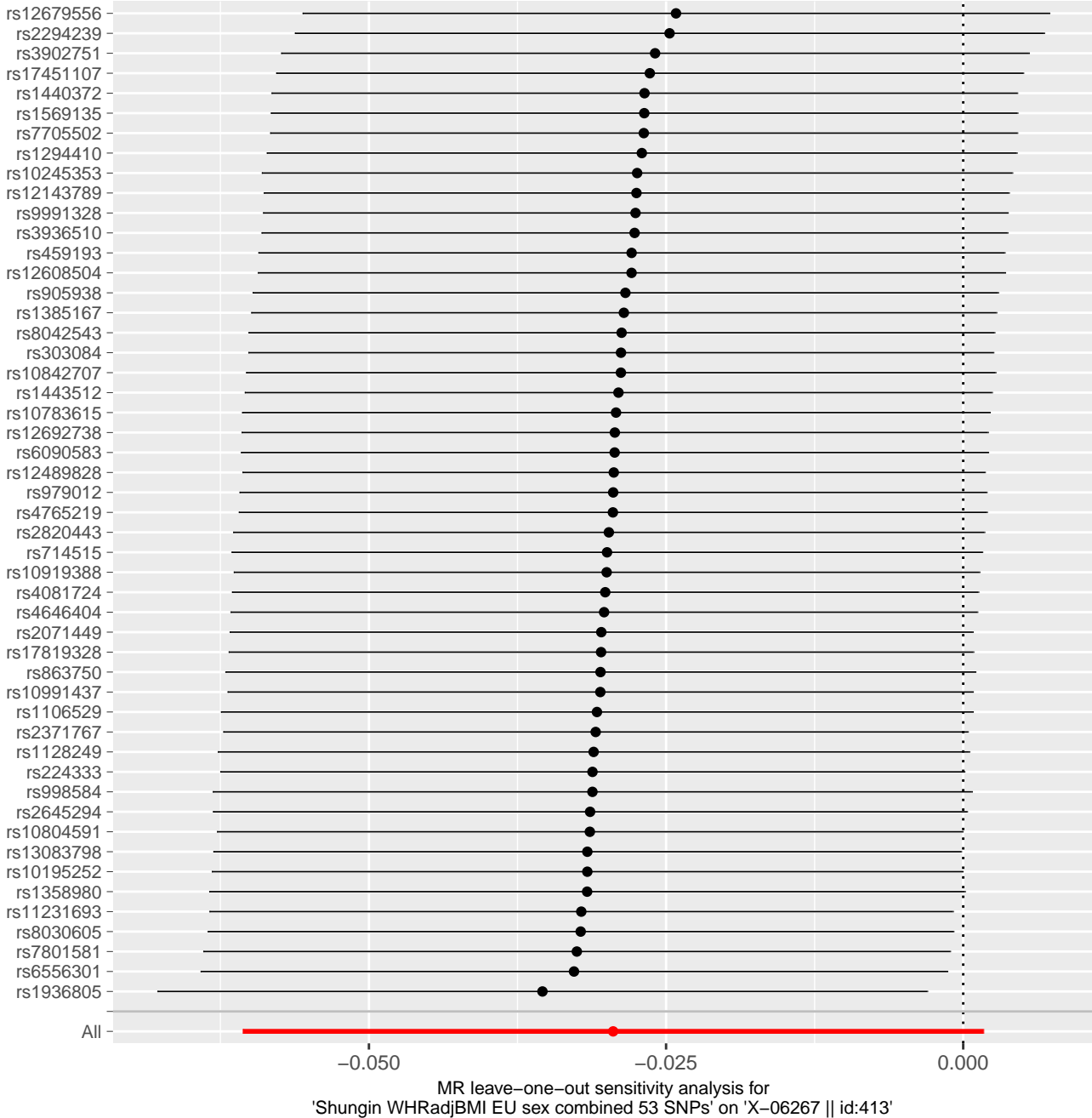'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−stearoylglycerophosphoinositol || id:410'

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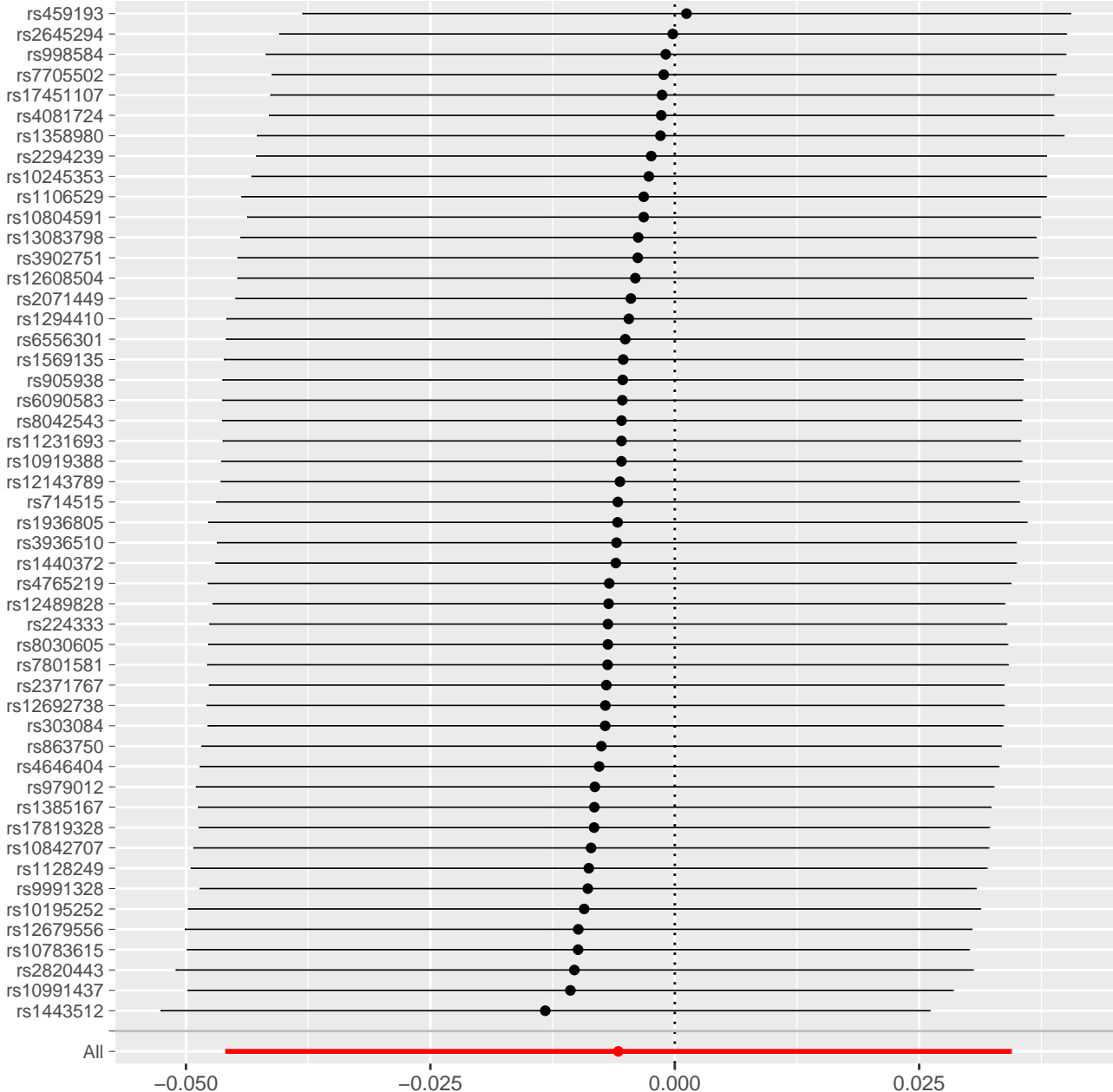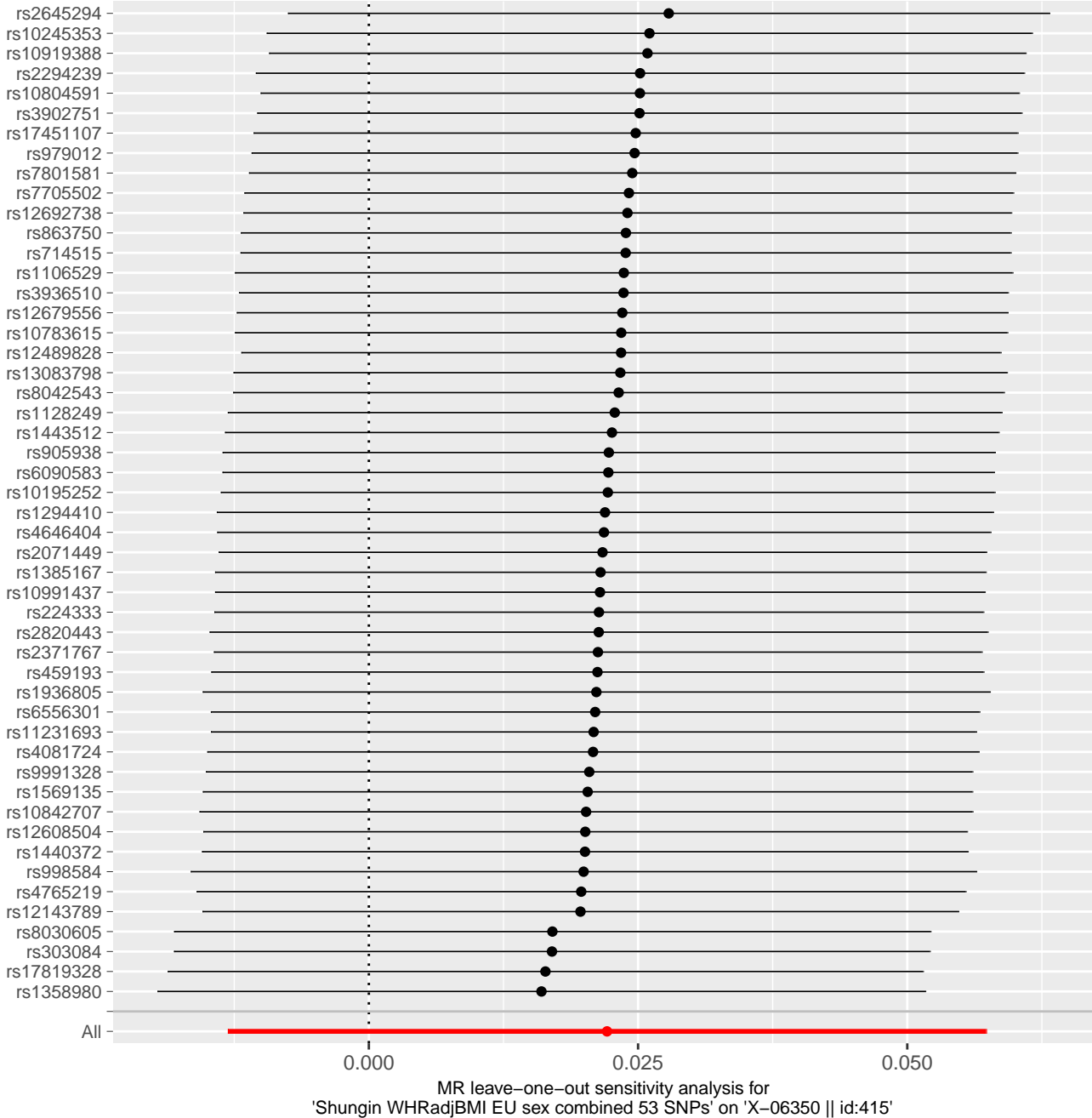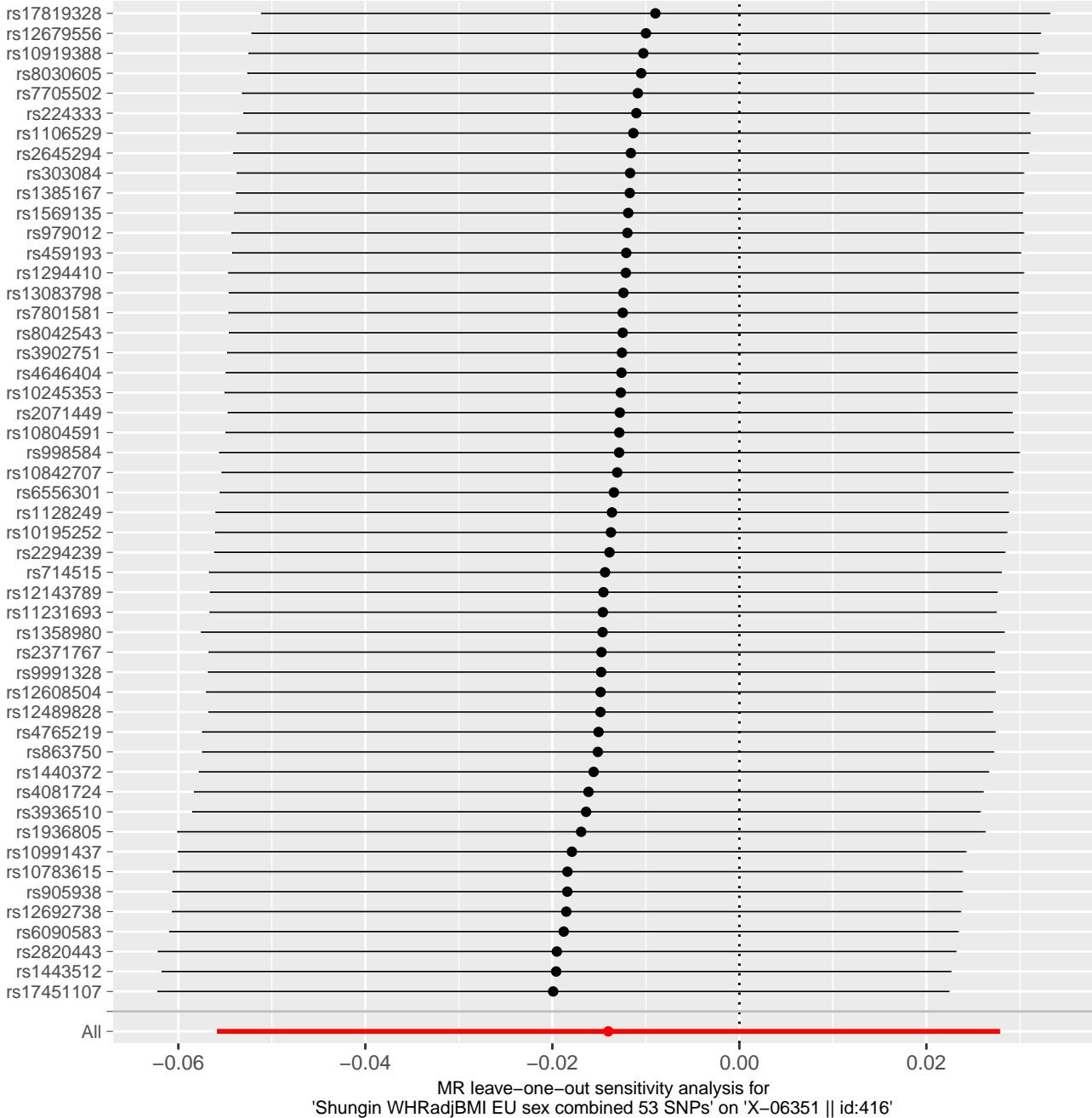'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−06226 || id:411'

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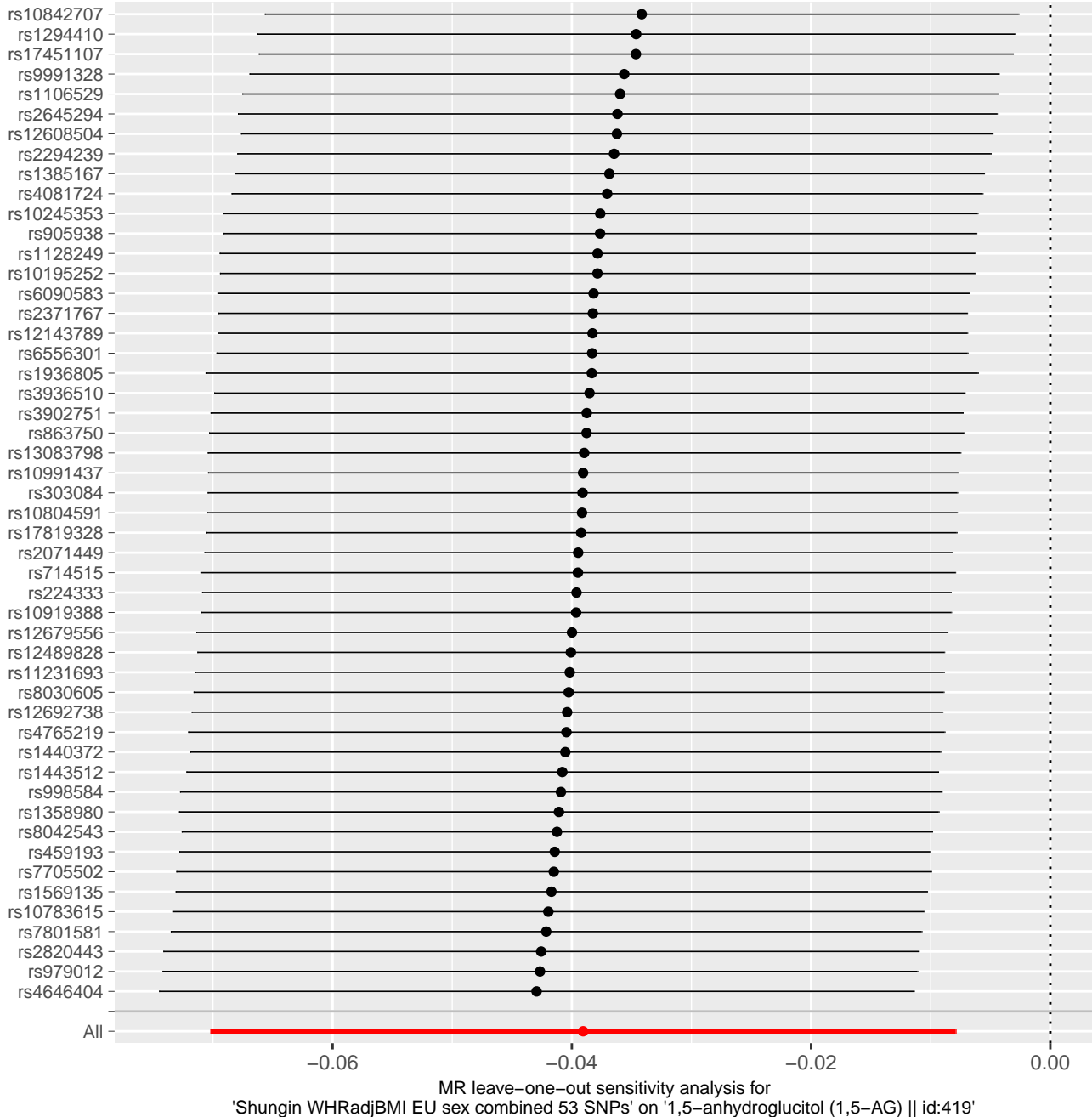'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−06351 || id:416'

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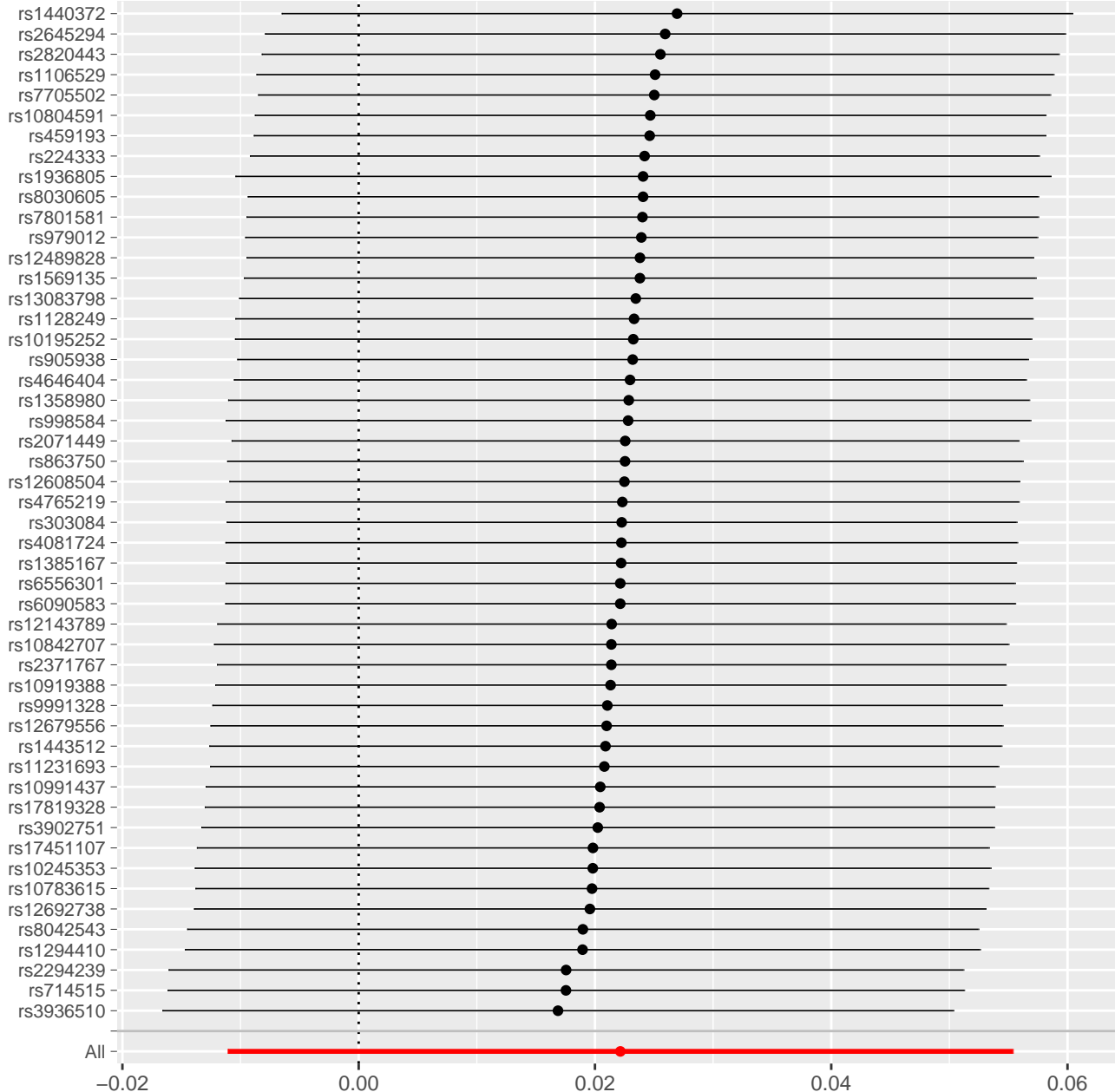'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Myo−inositol || id:417'
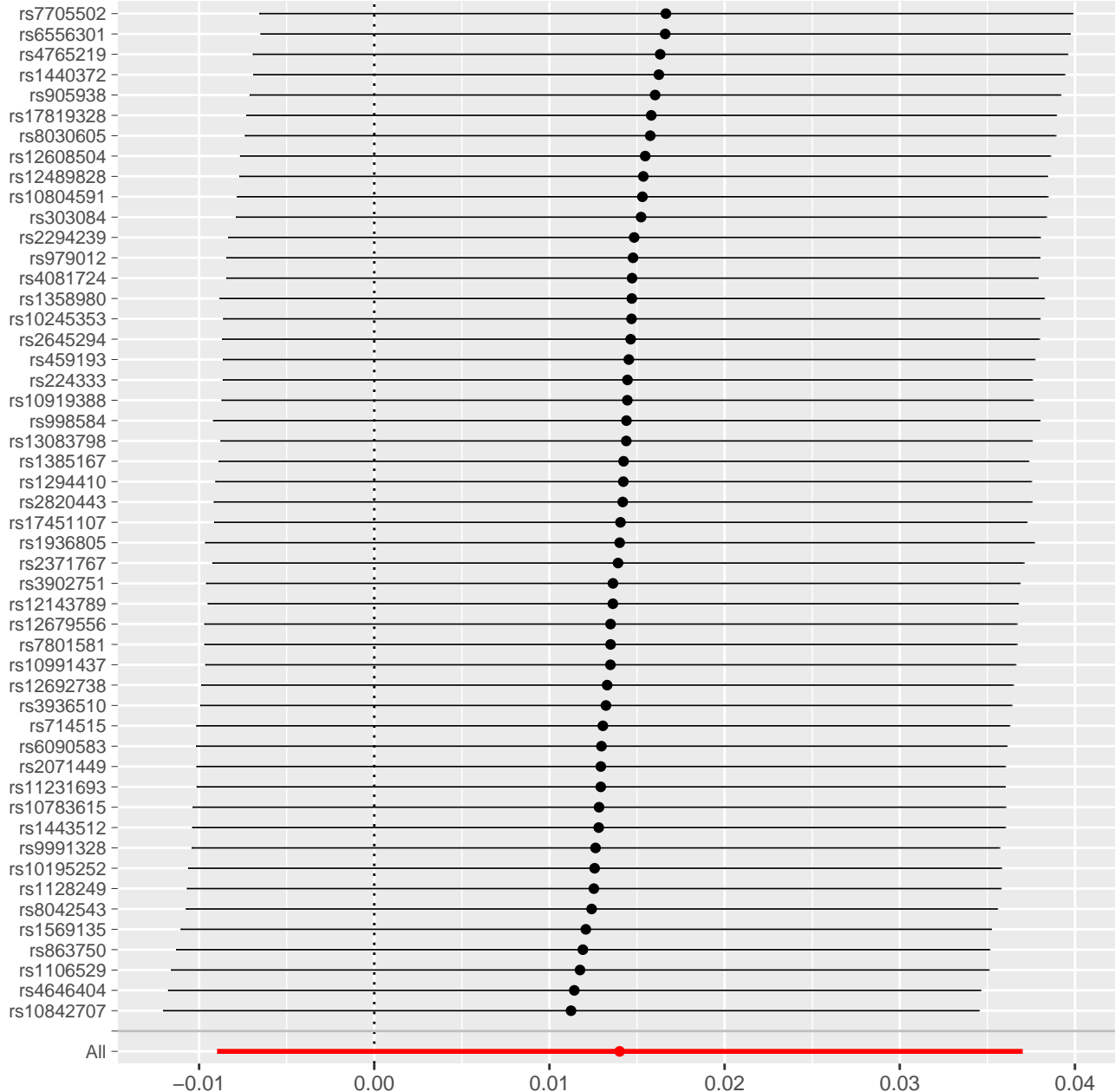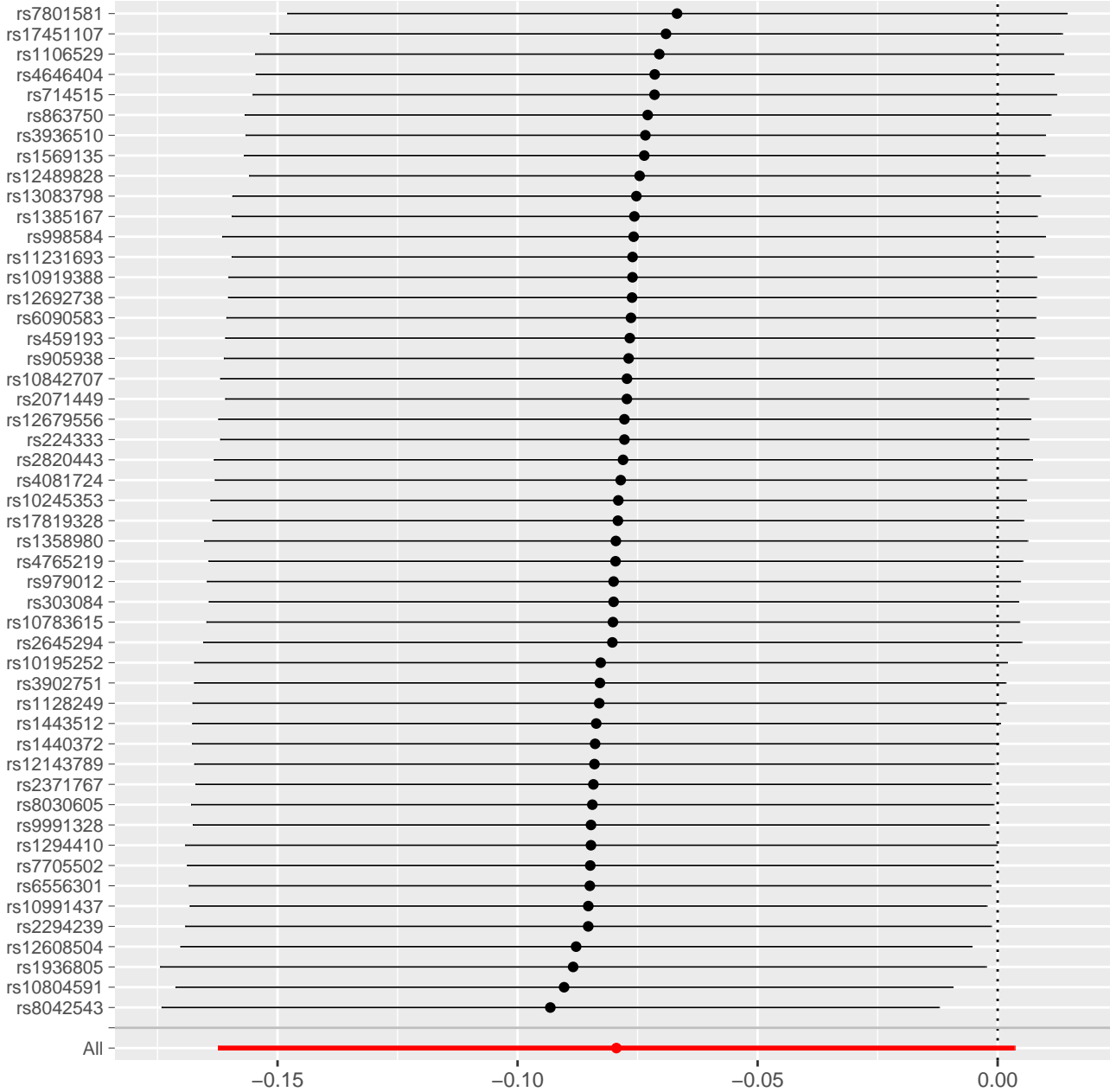
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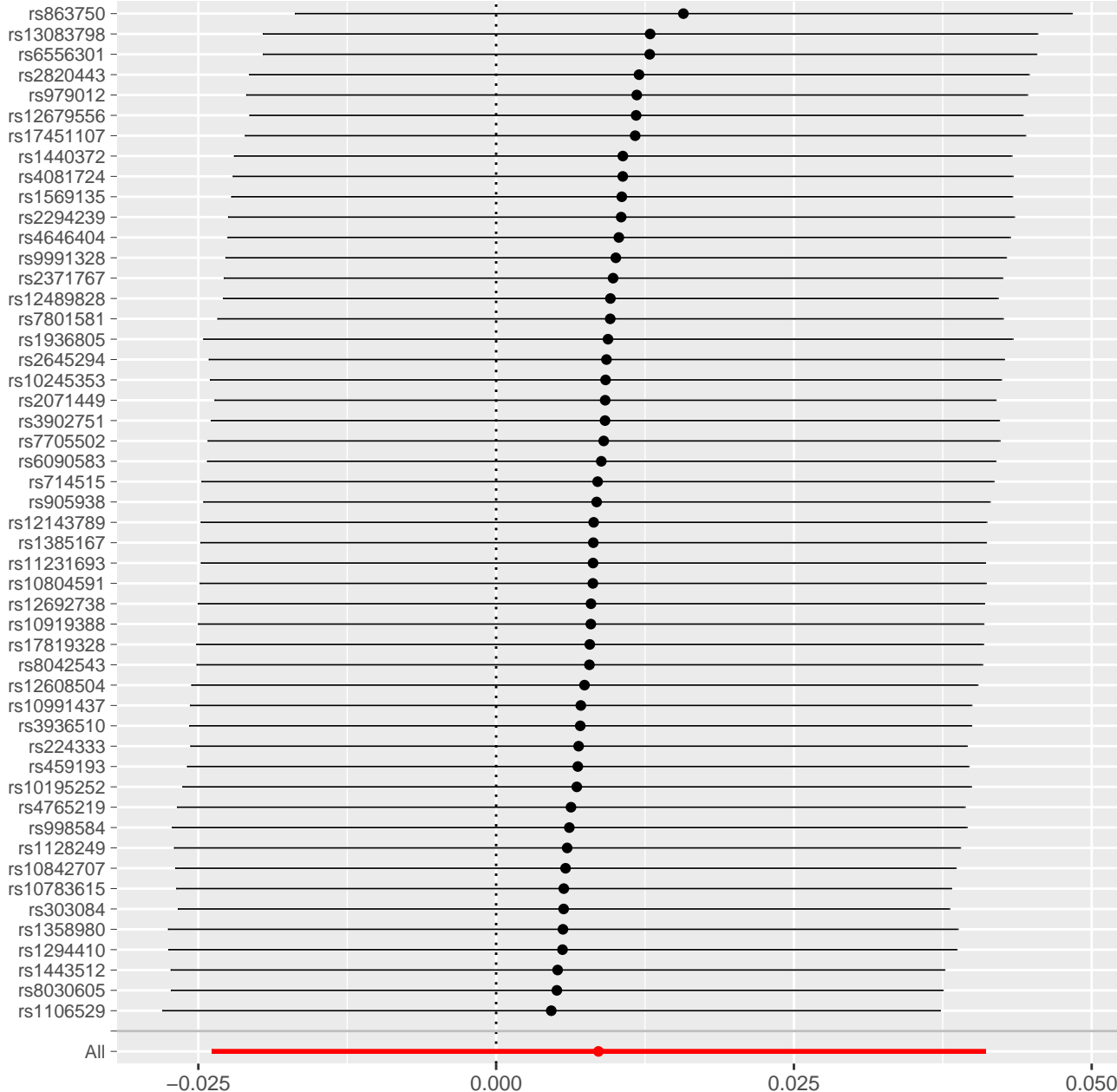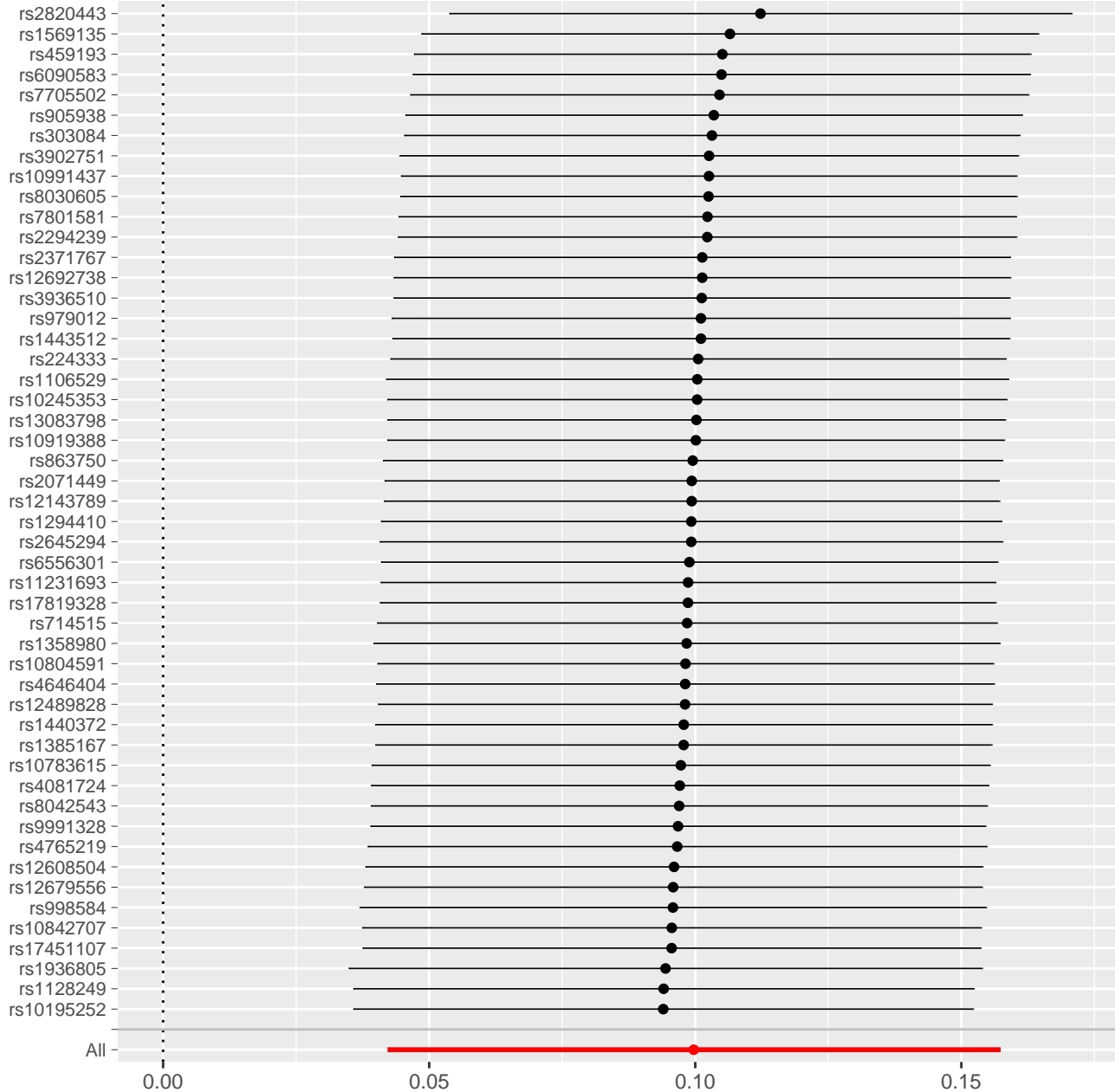'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−hydroxybutyrate (AHB) || id:420'

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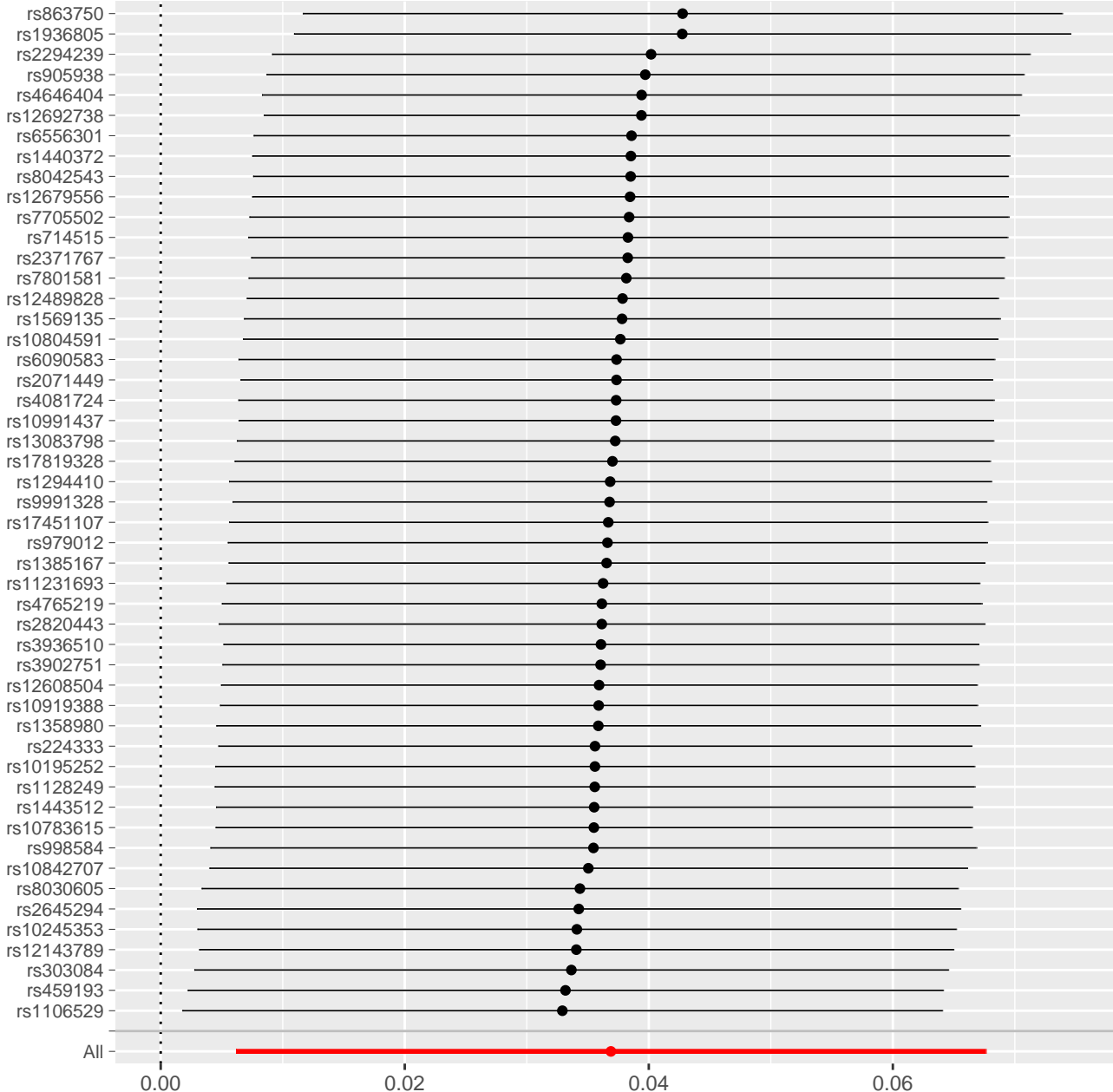'Shungin WHRadjBMI EU sex combined 53 SNPs' on '3−methyl−2−oxobutyrate || id:421'

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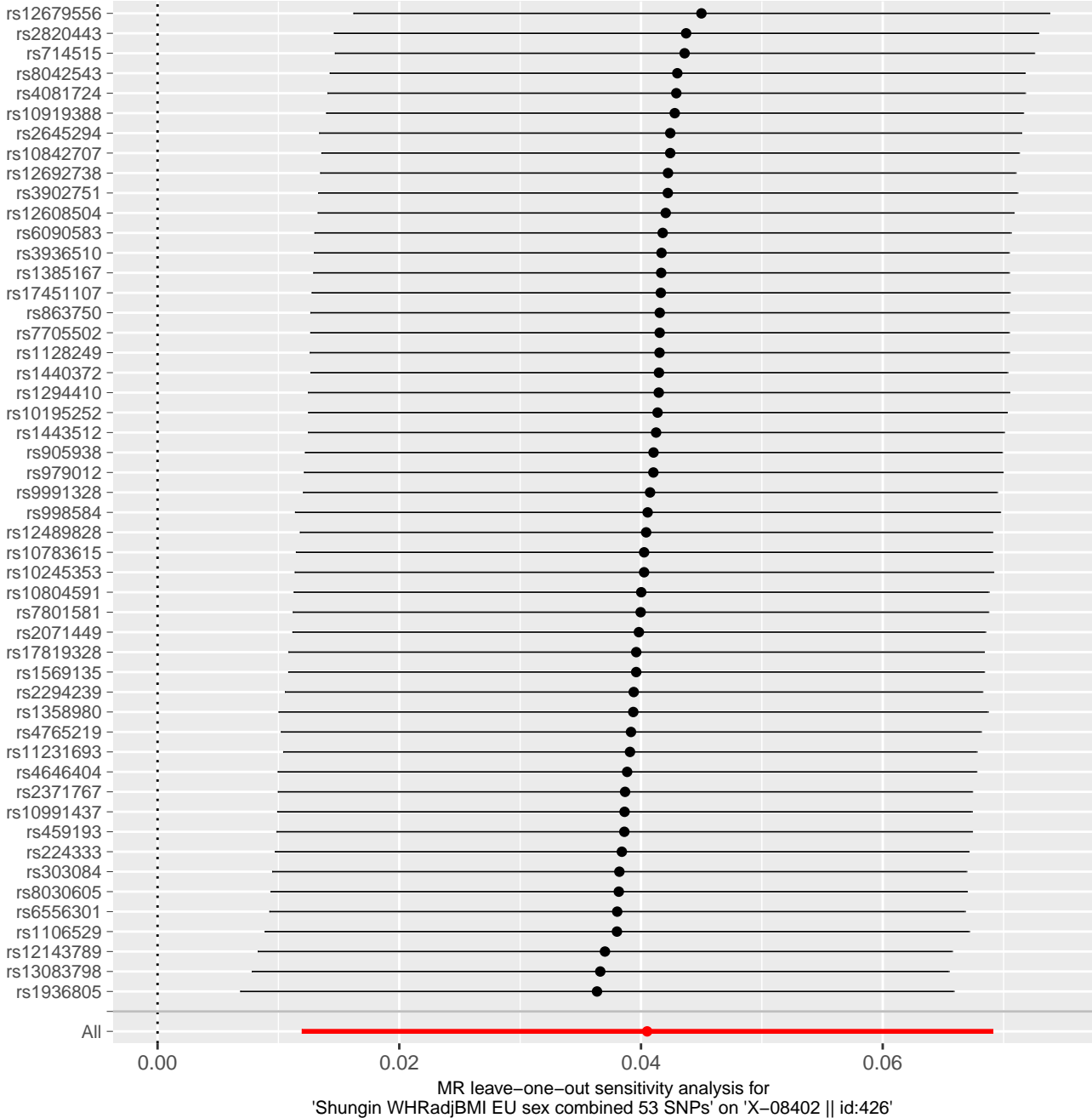'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−palmitoylglycerol (1−monopalmitin) || id:423'
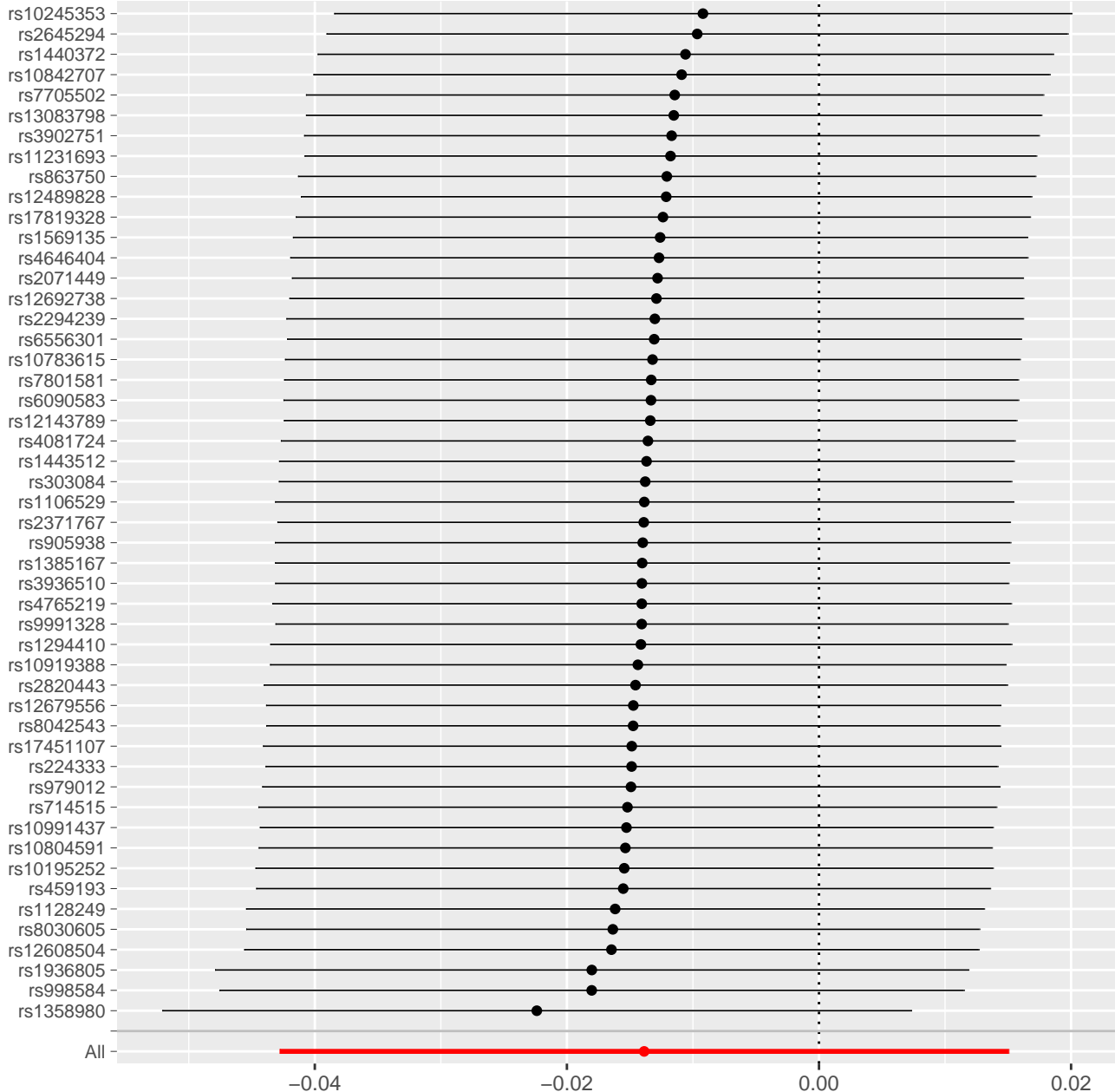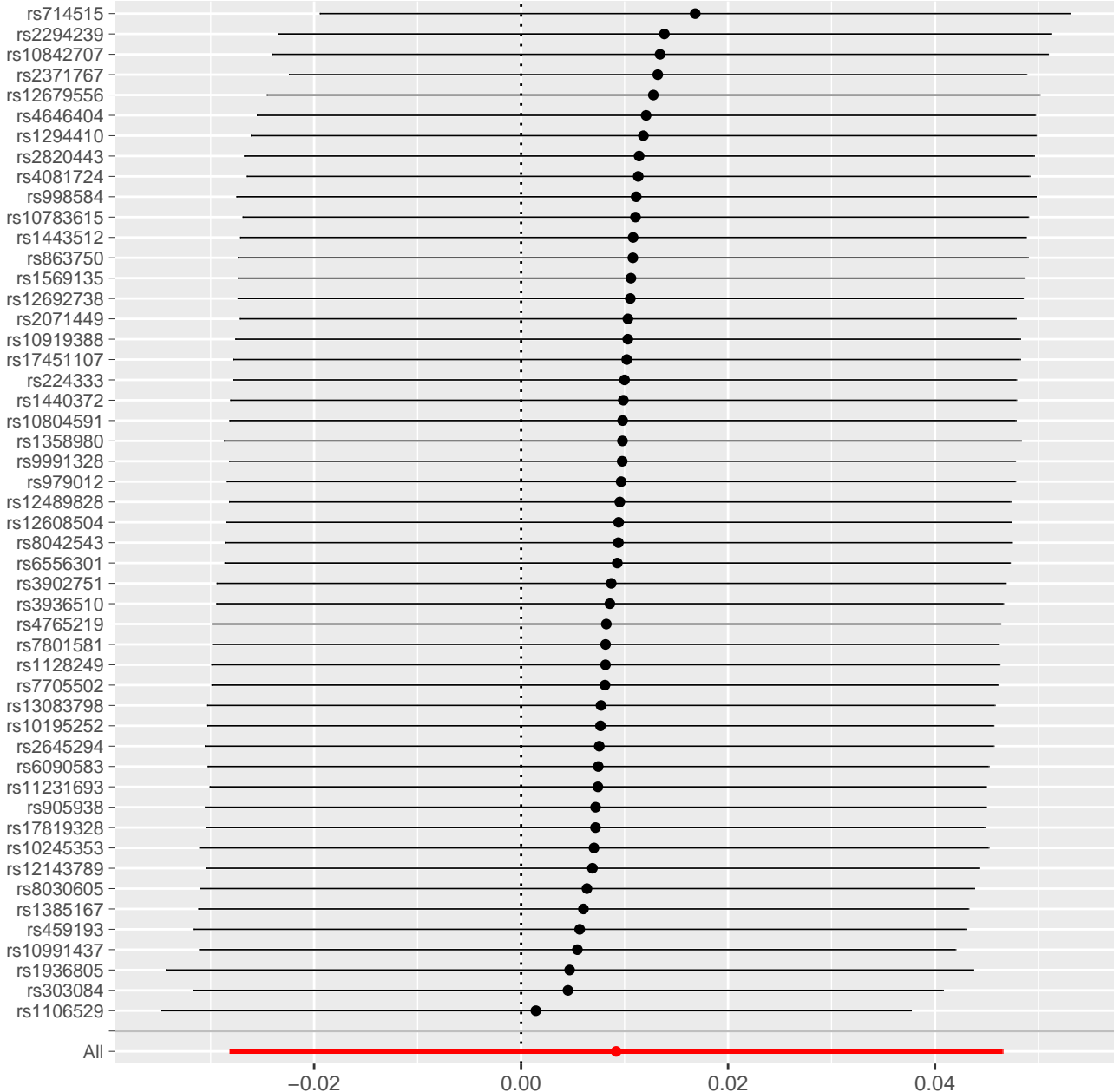
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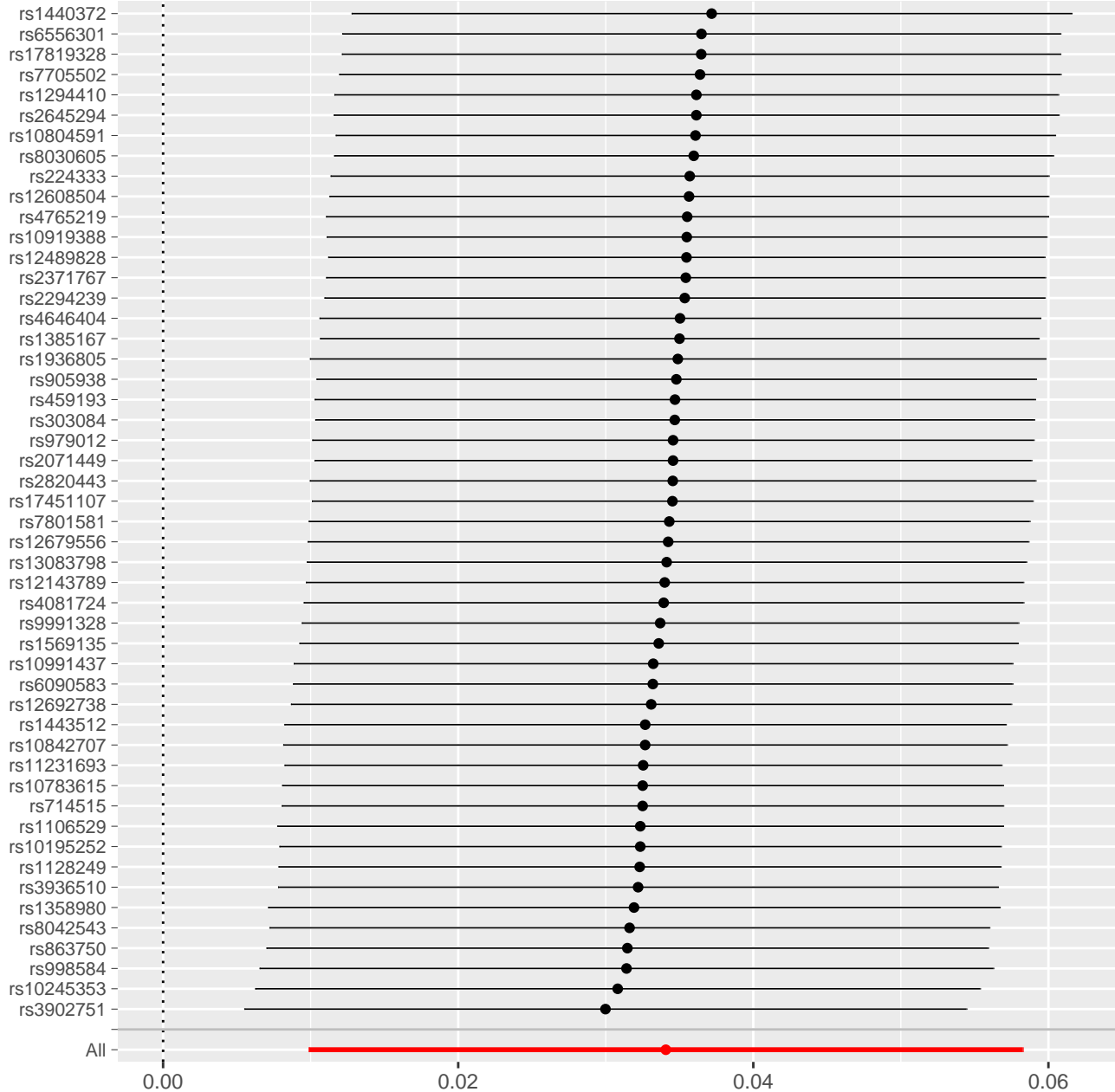'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−oleoylglycerol (1−monoolein) || id:424'

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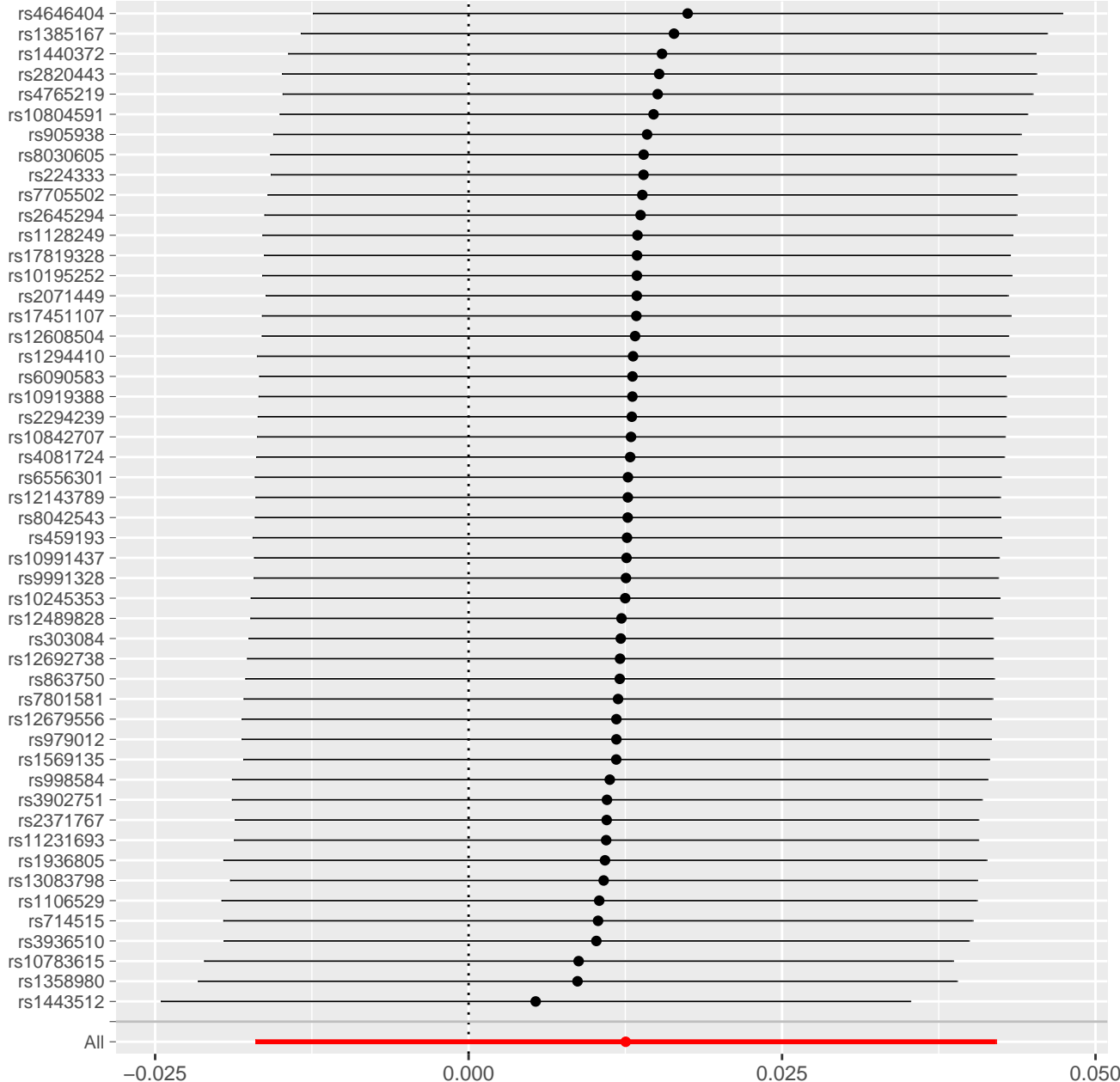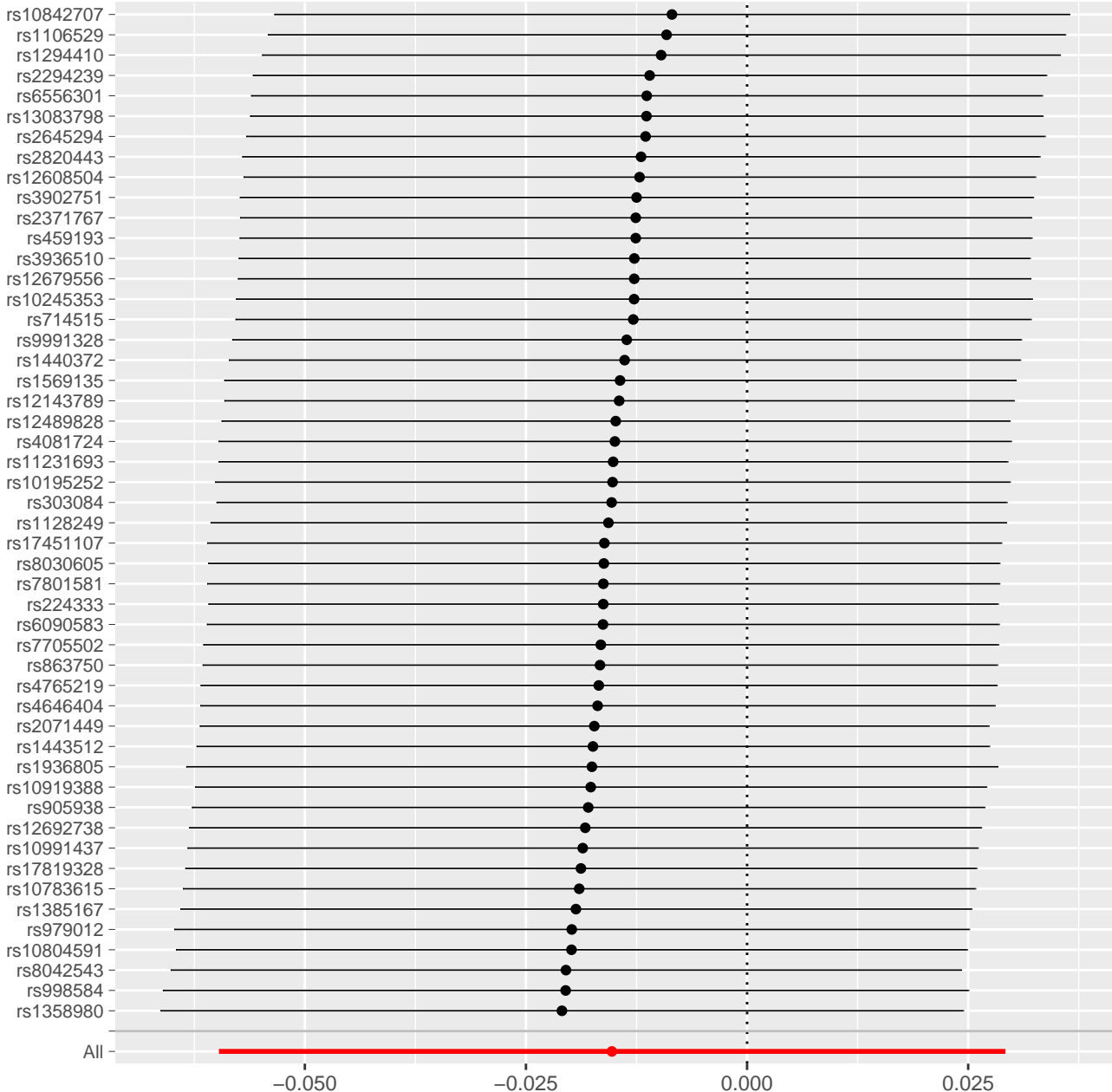
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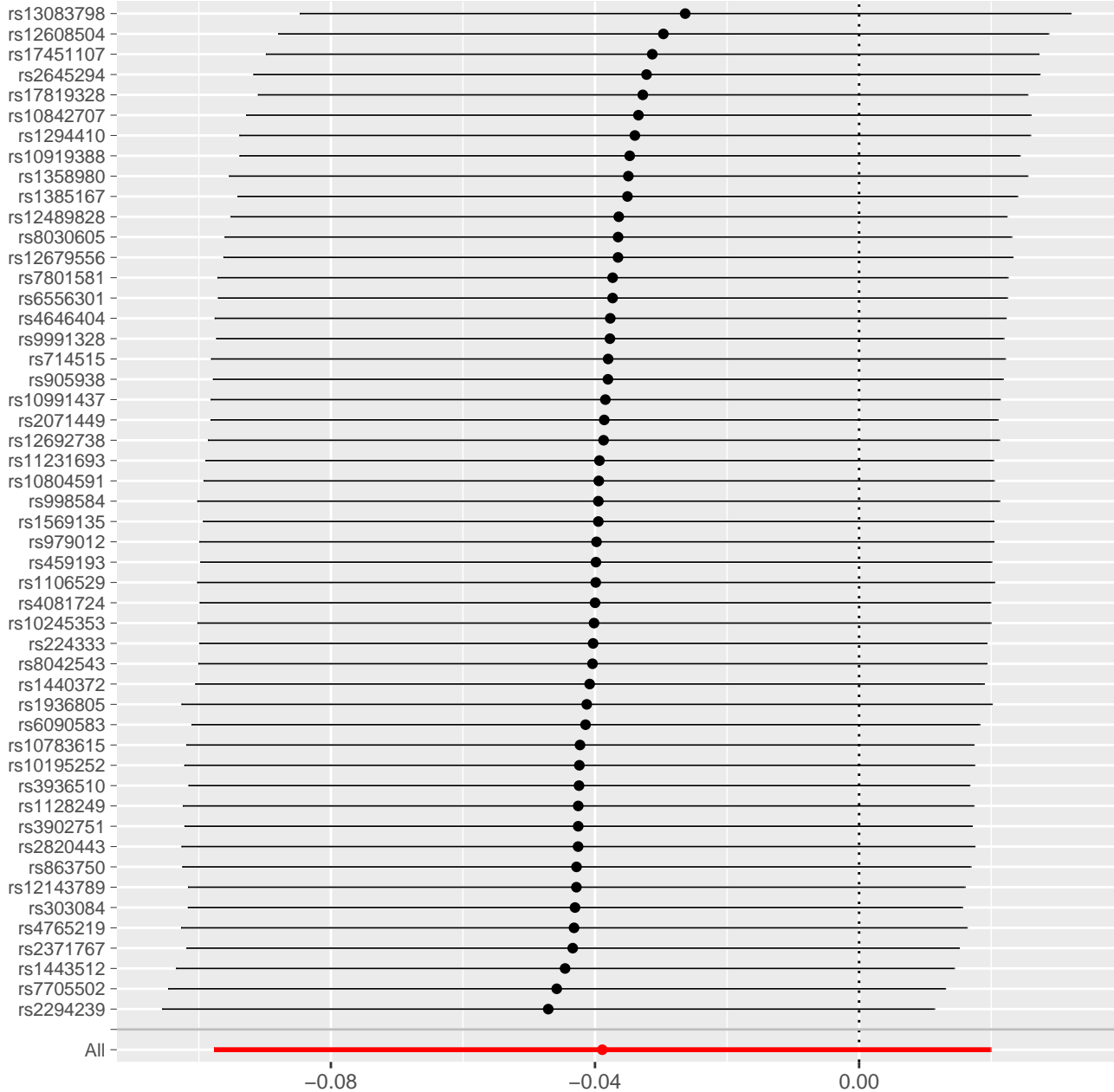
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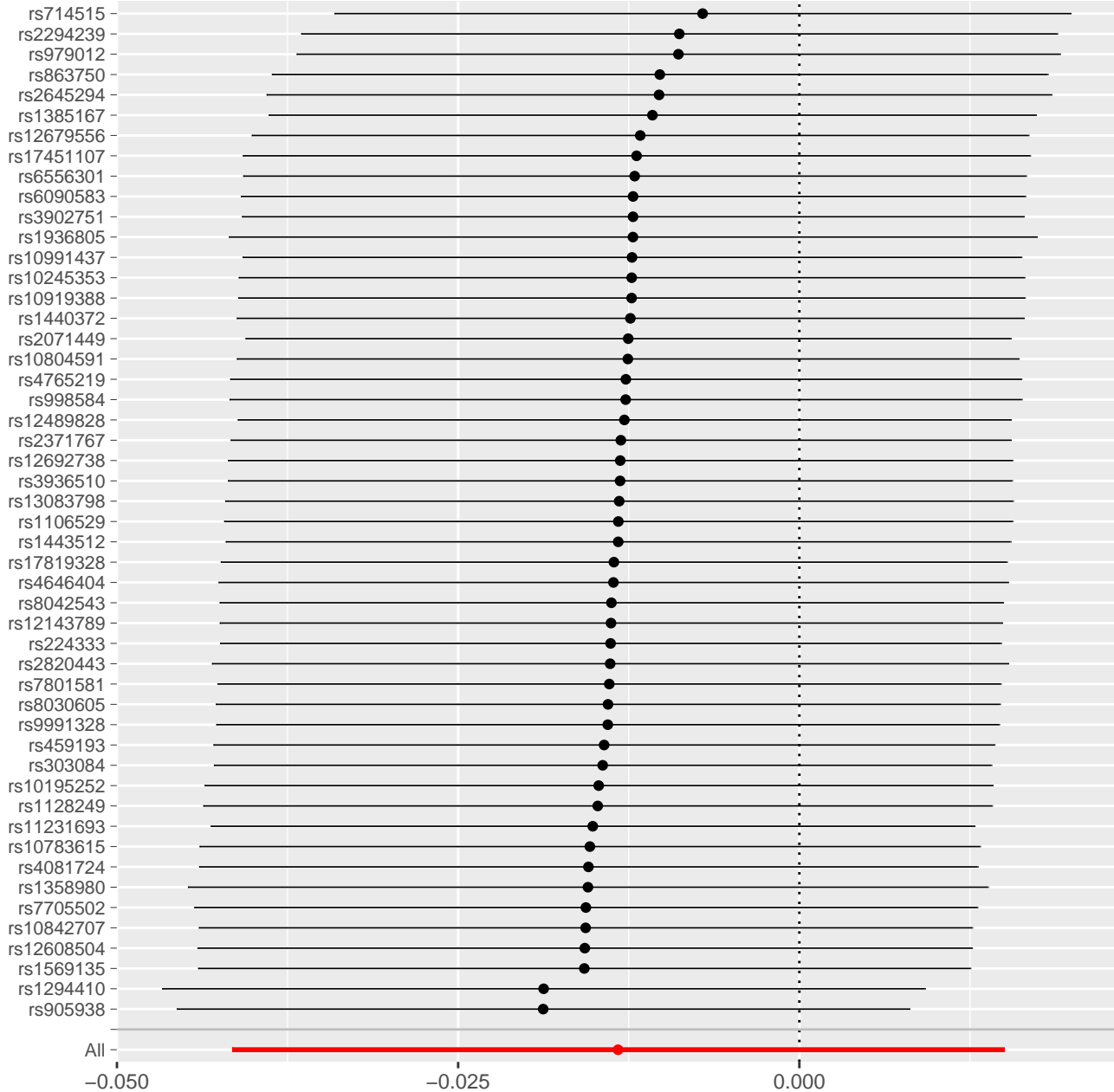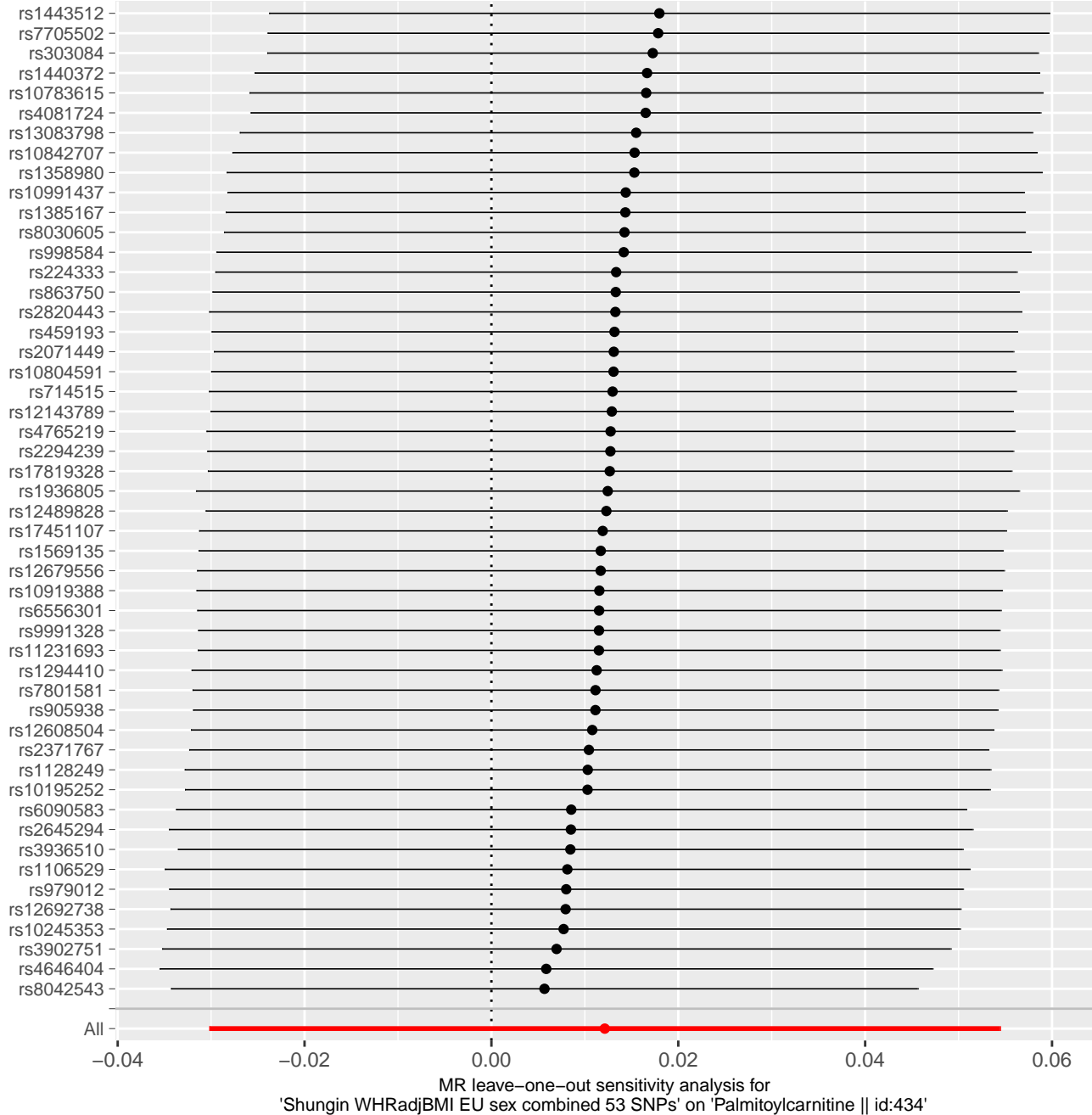'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Phenyllactate (PLA) || id:430'
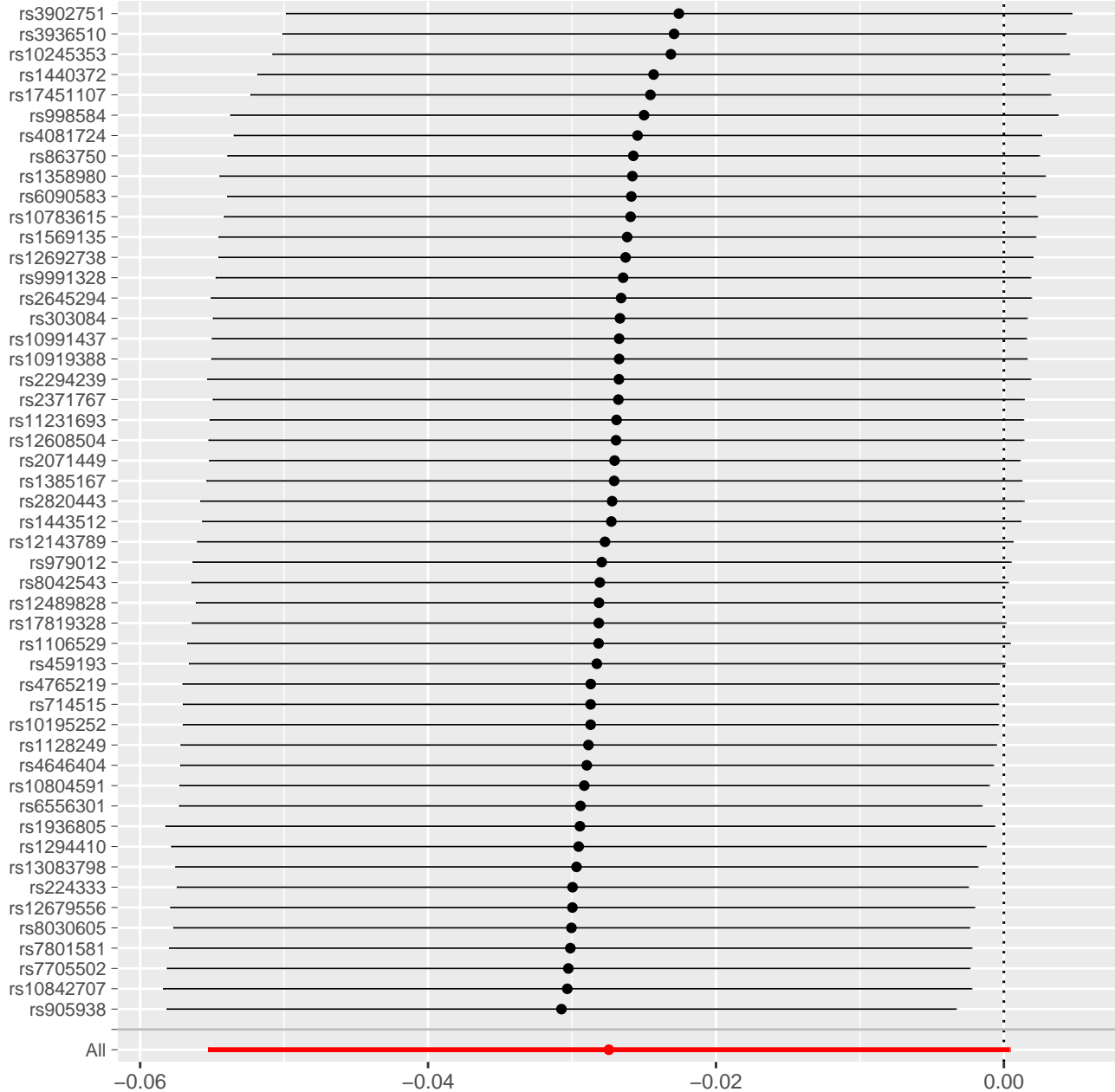
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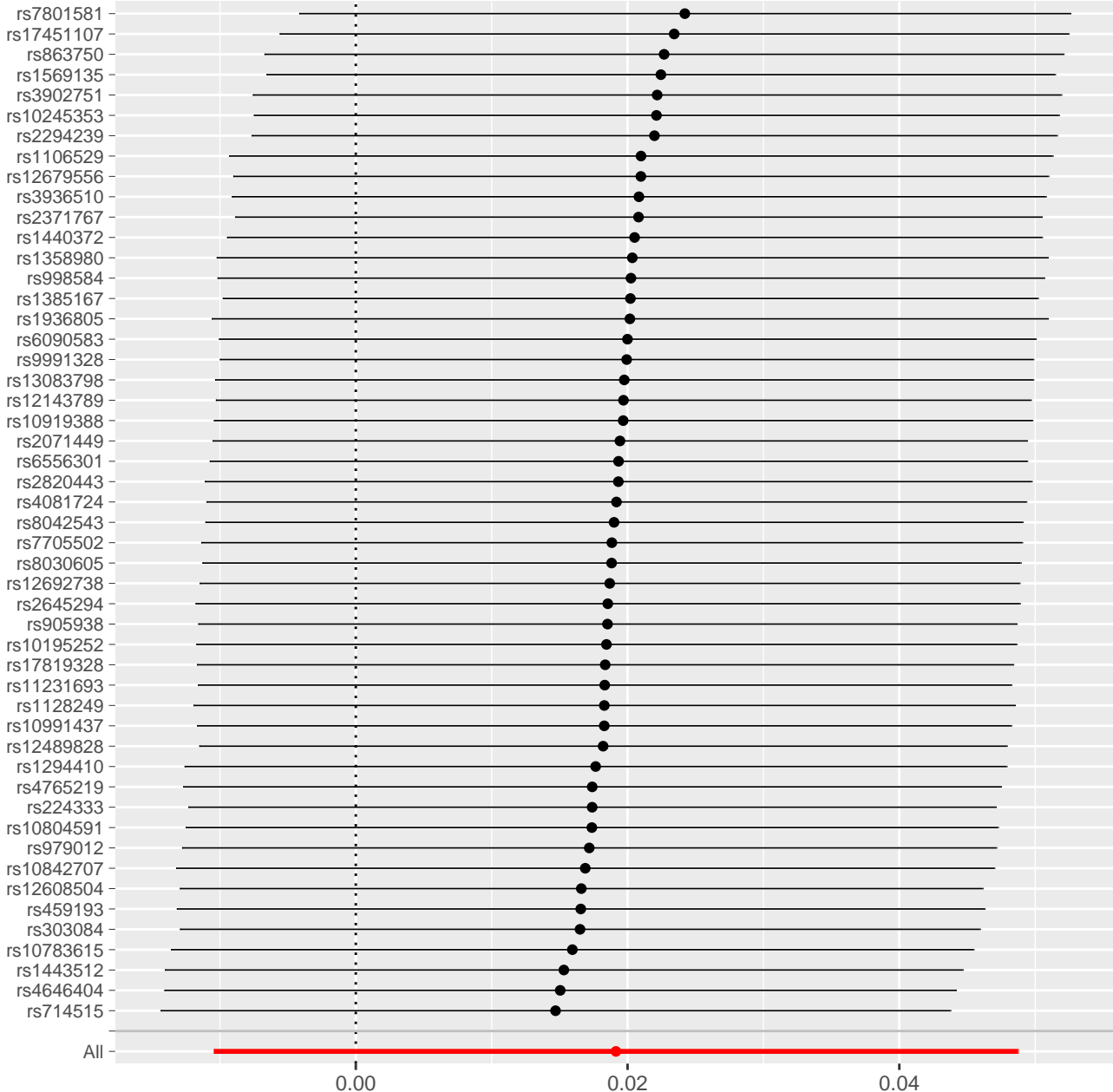'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Homocitrulline || id:431'

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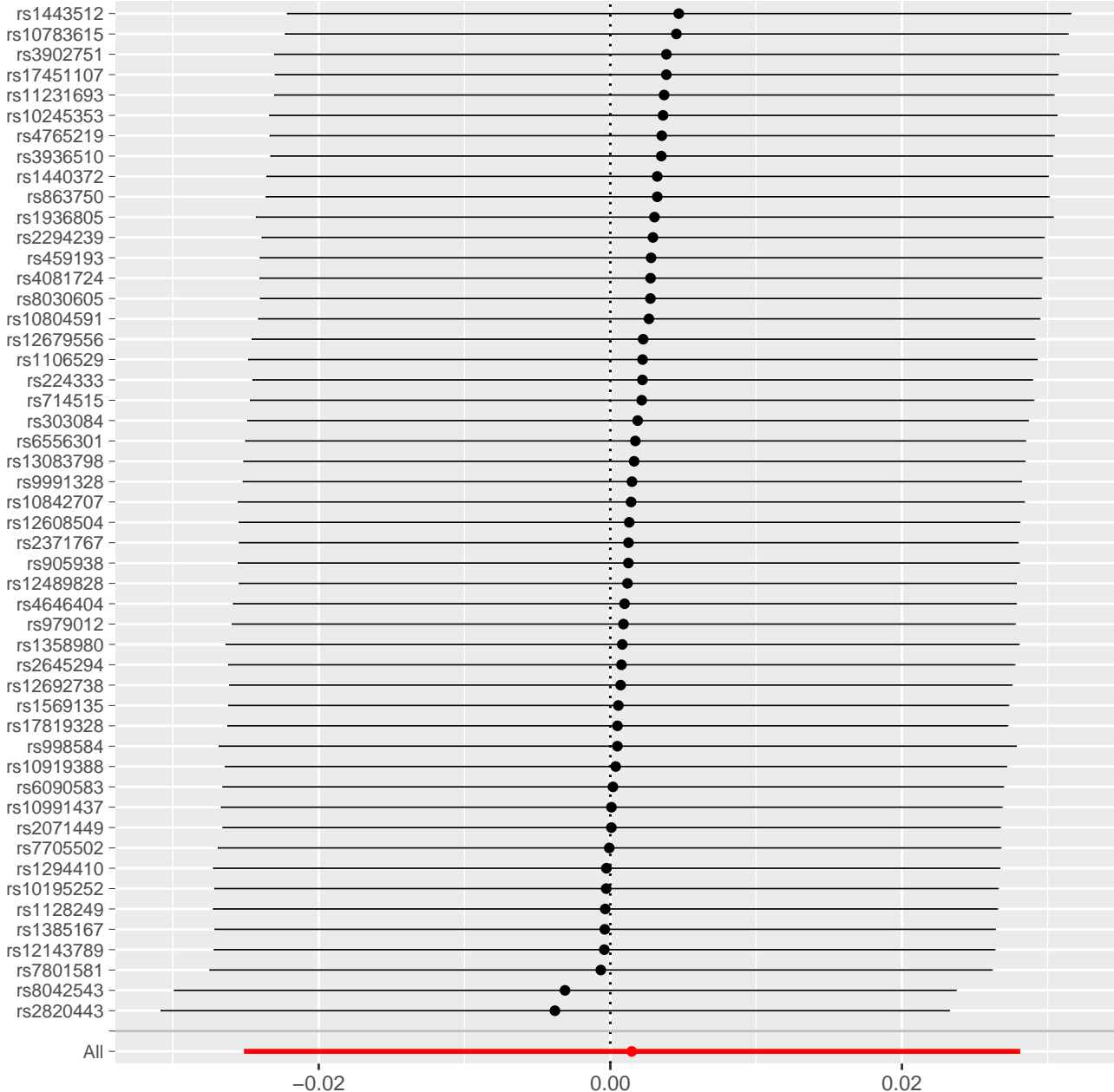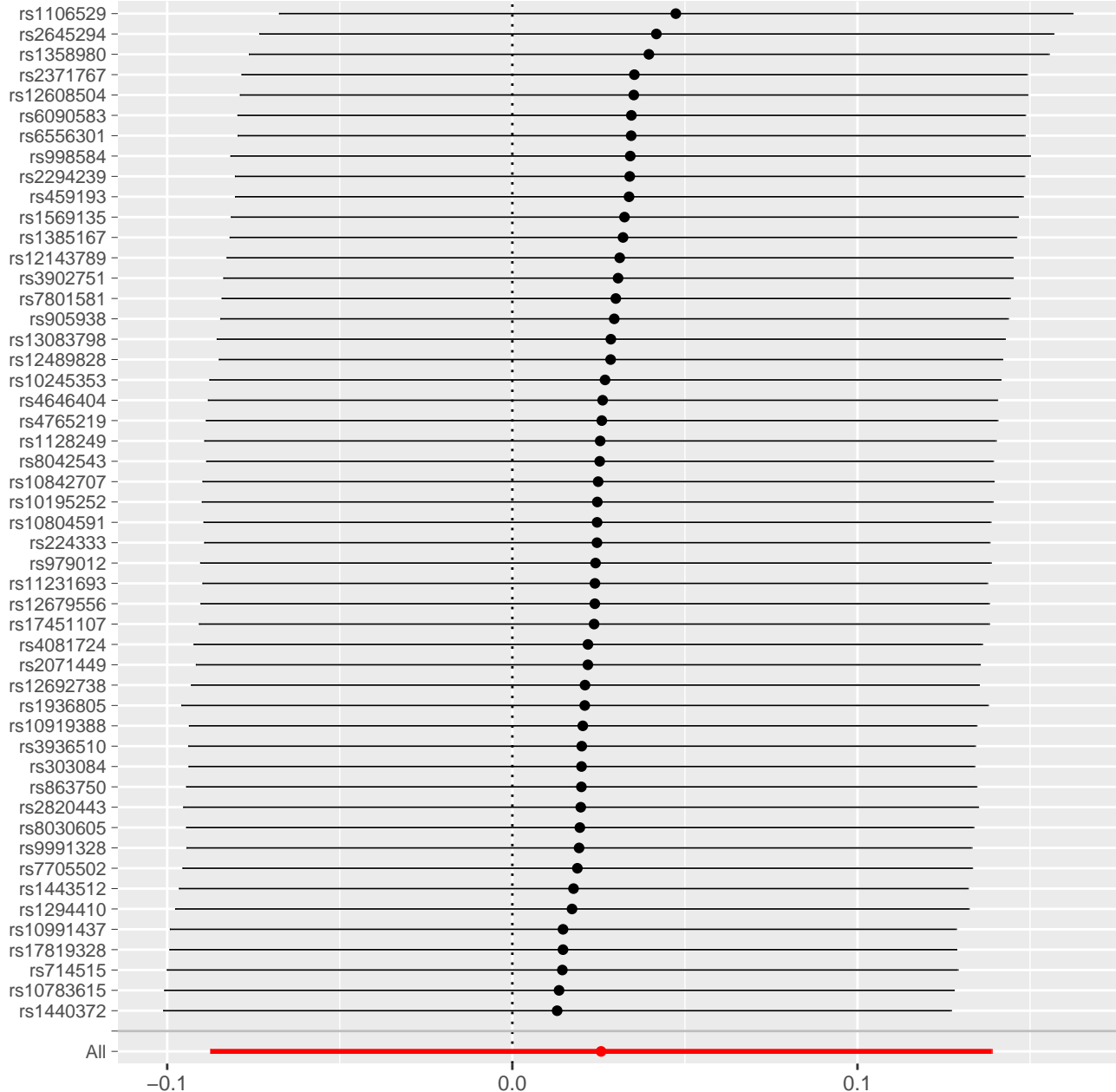
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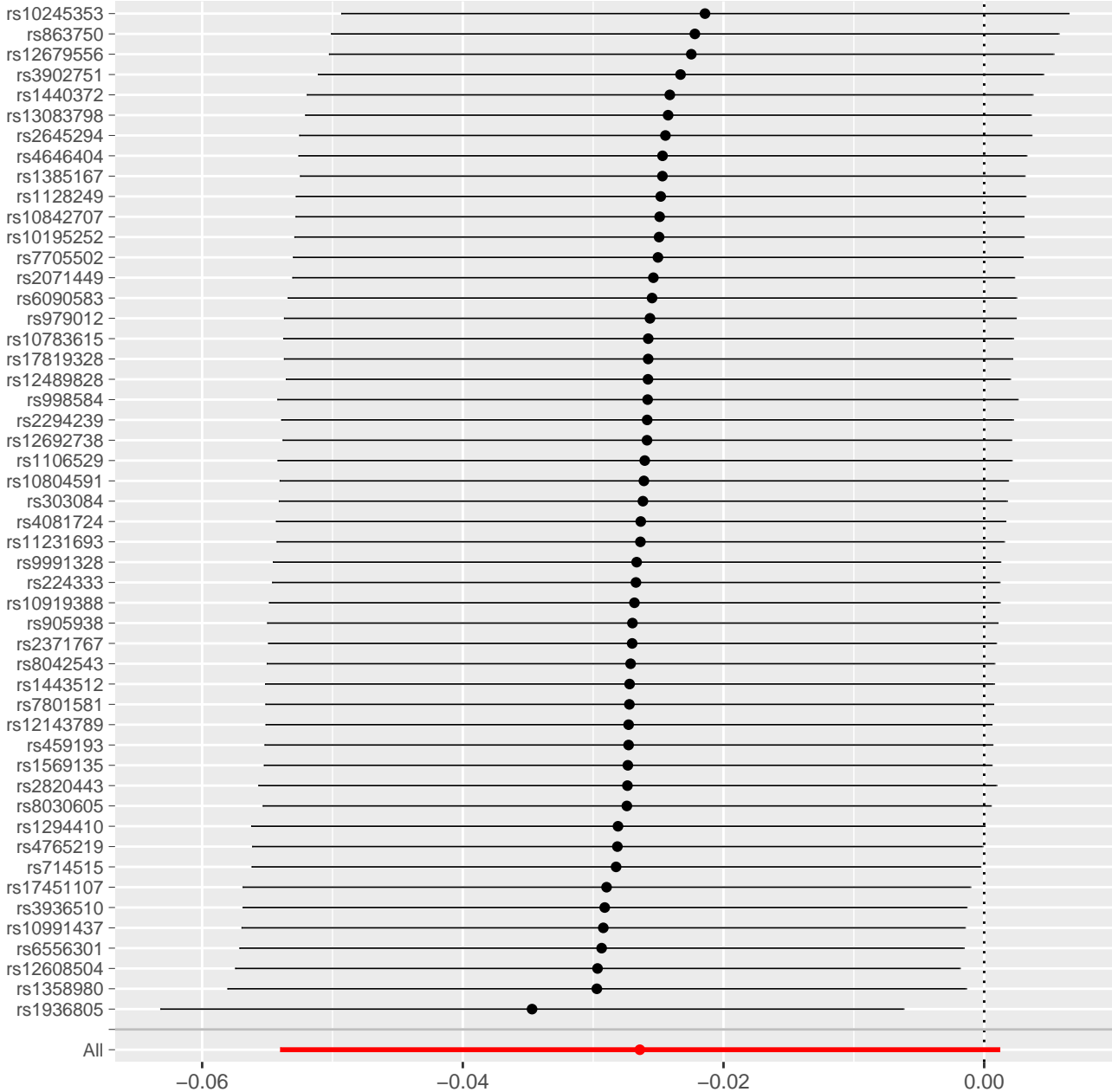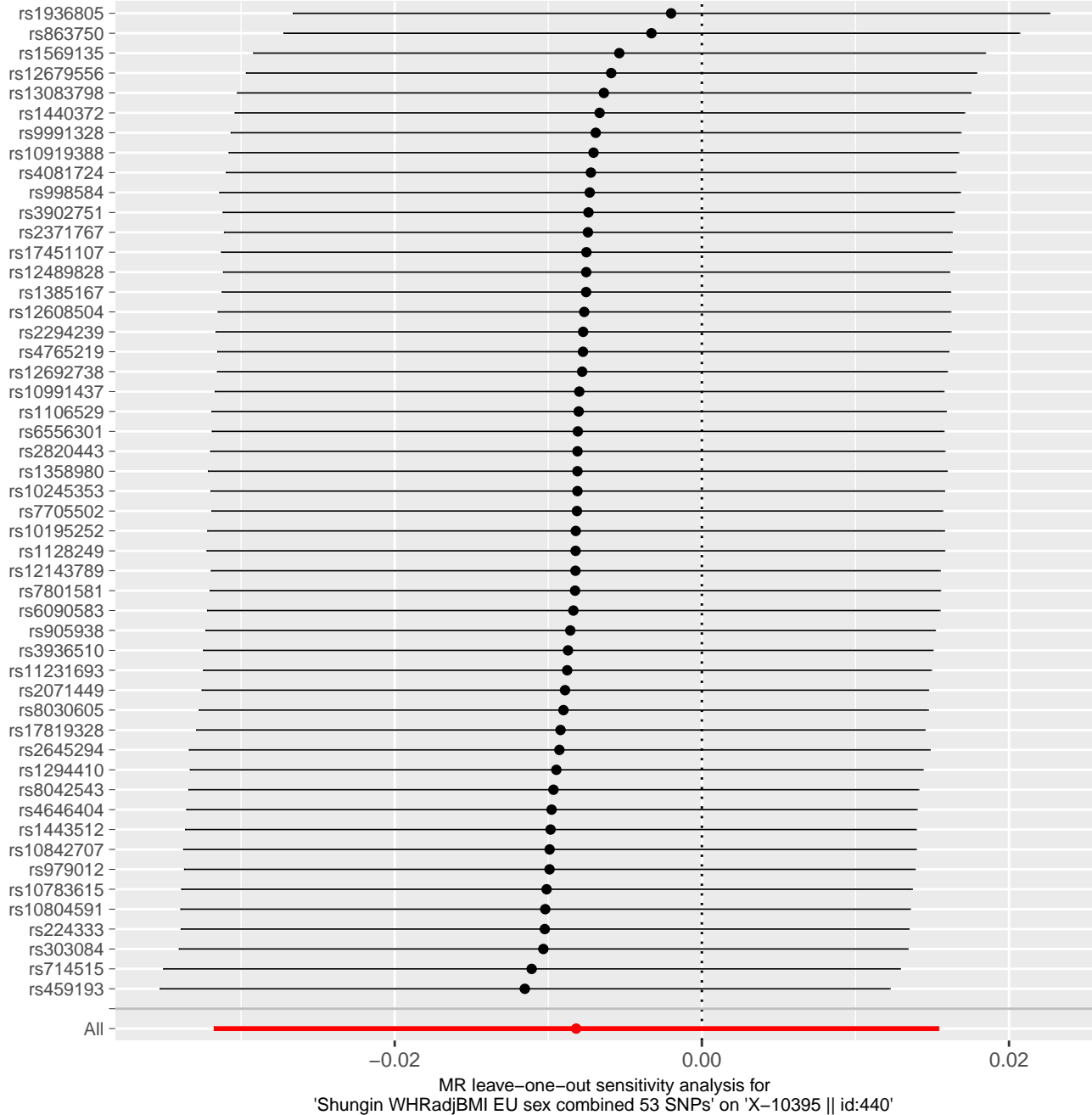'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−09108 || id:437'

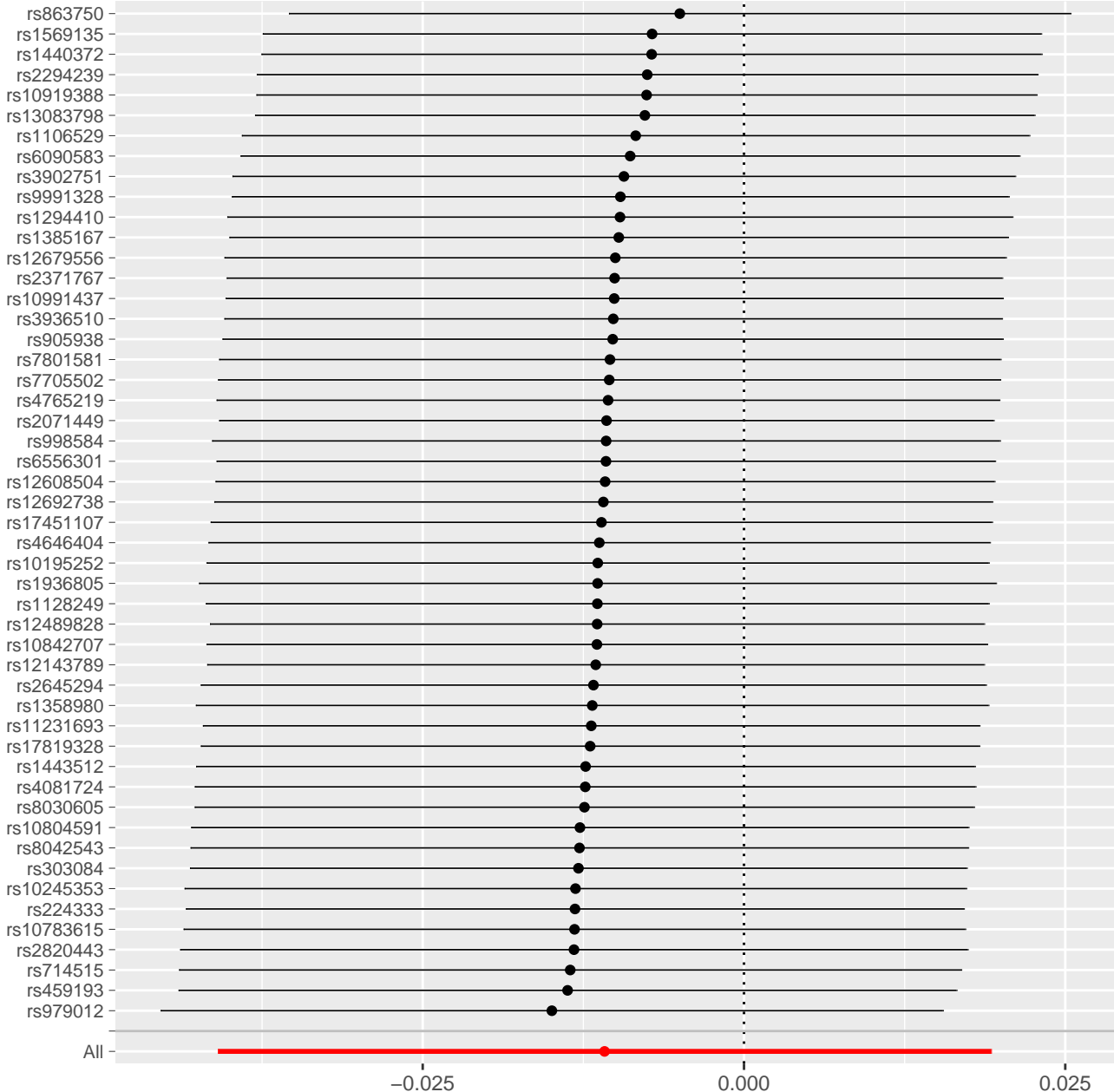MR leave−out sensitivity analysis for
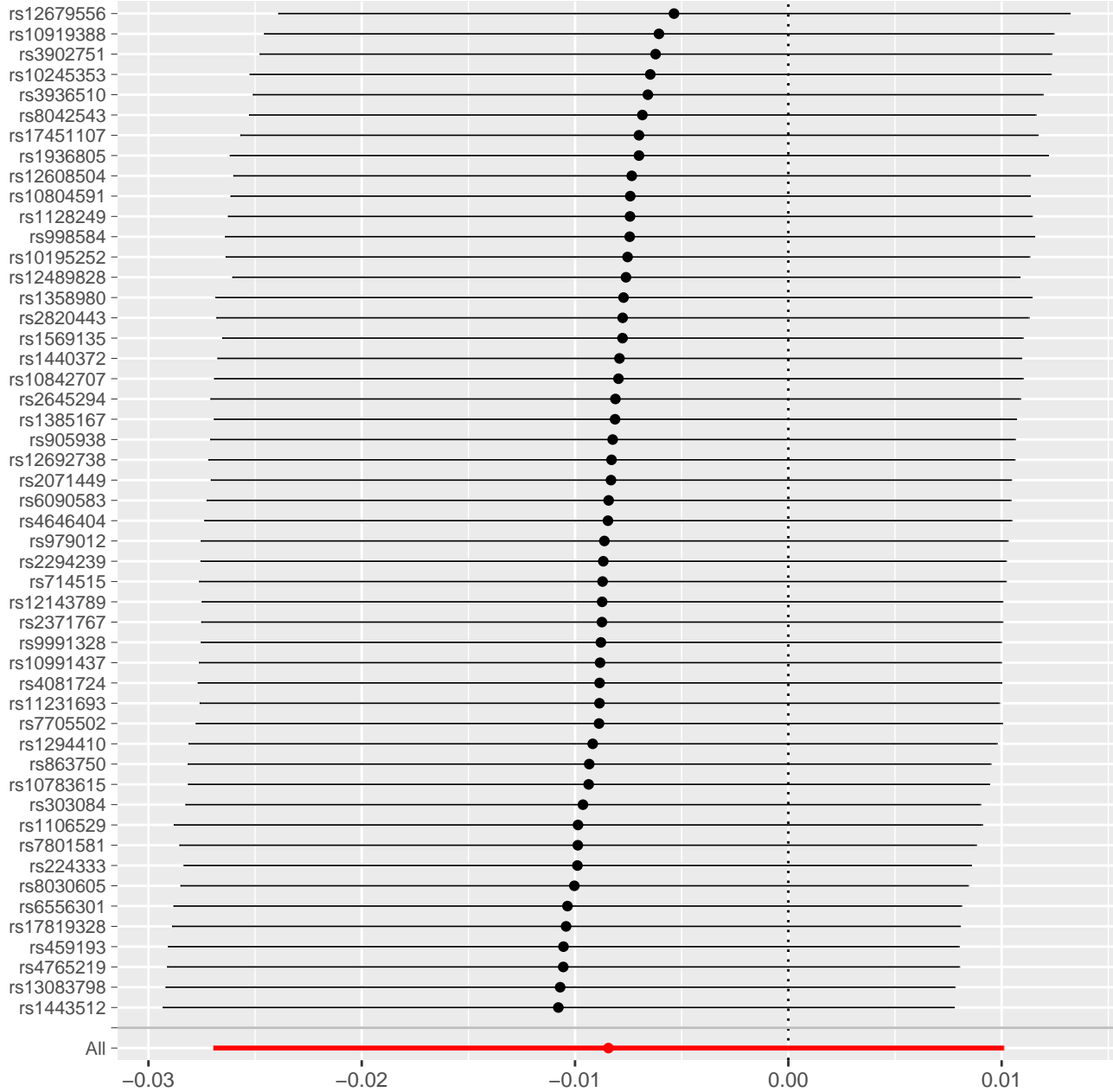'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Cholate || id:438'

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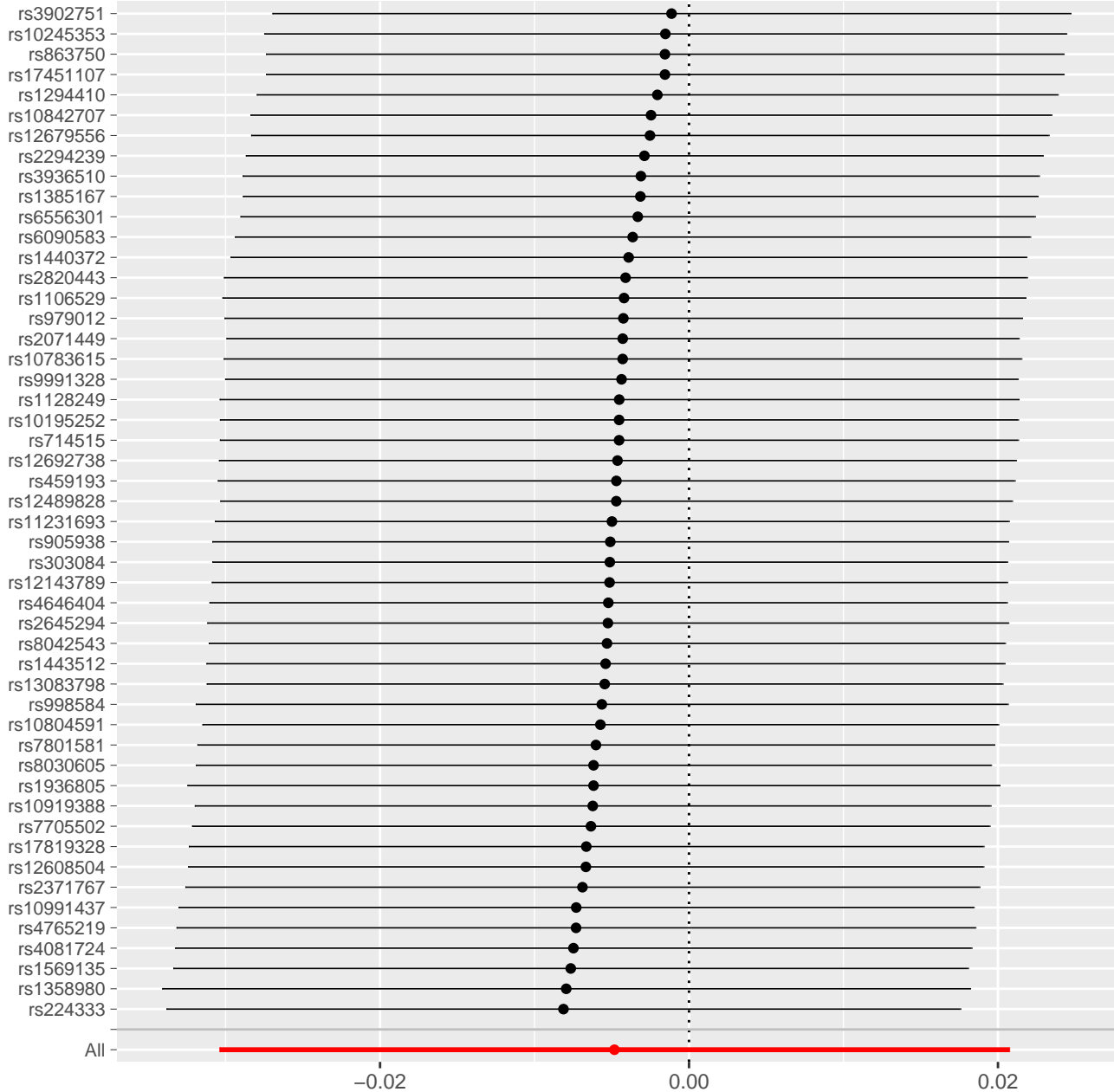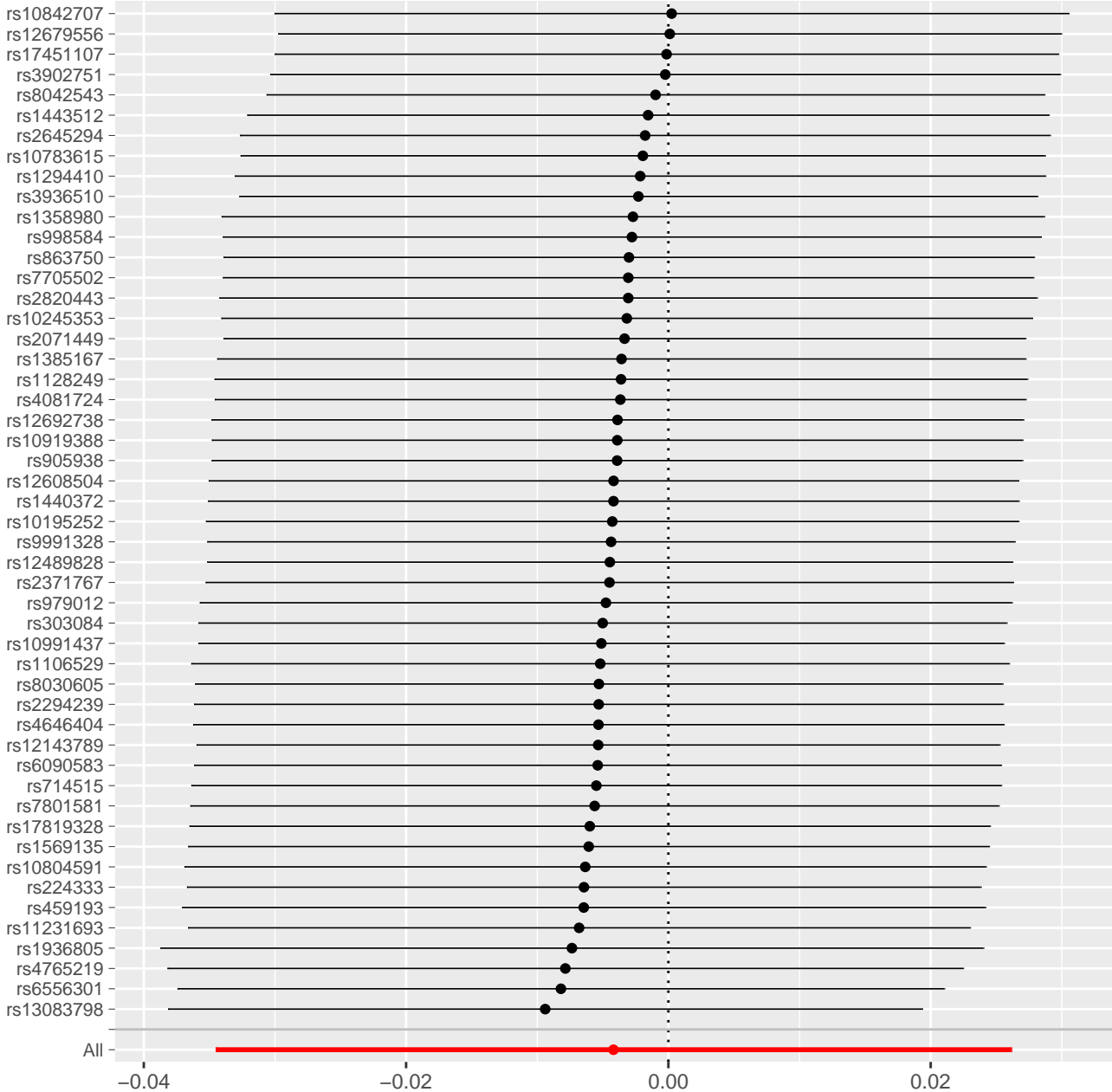'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−10395 || id:440'

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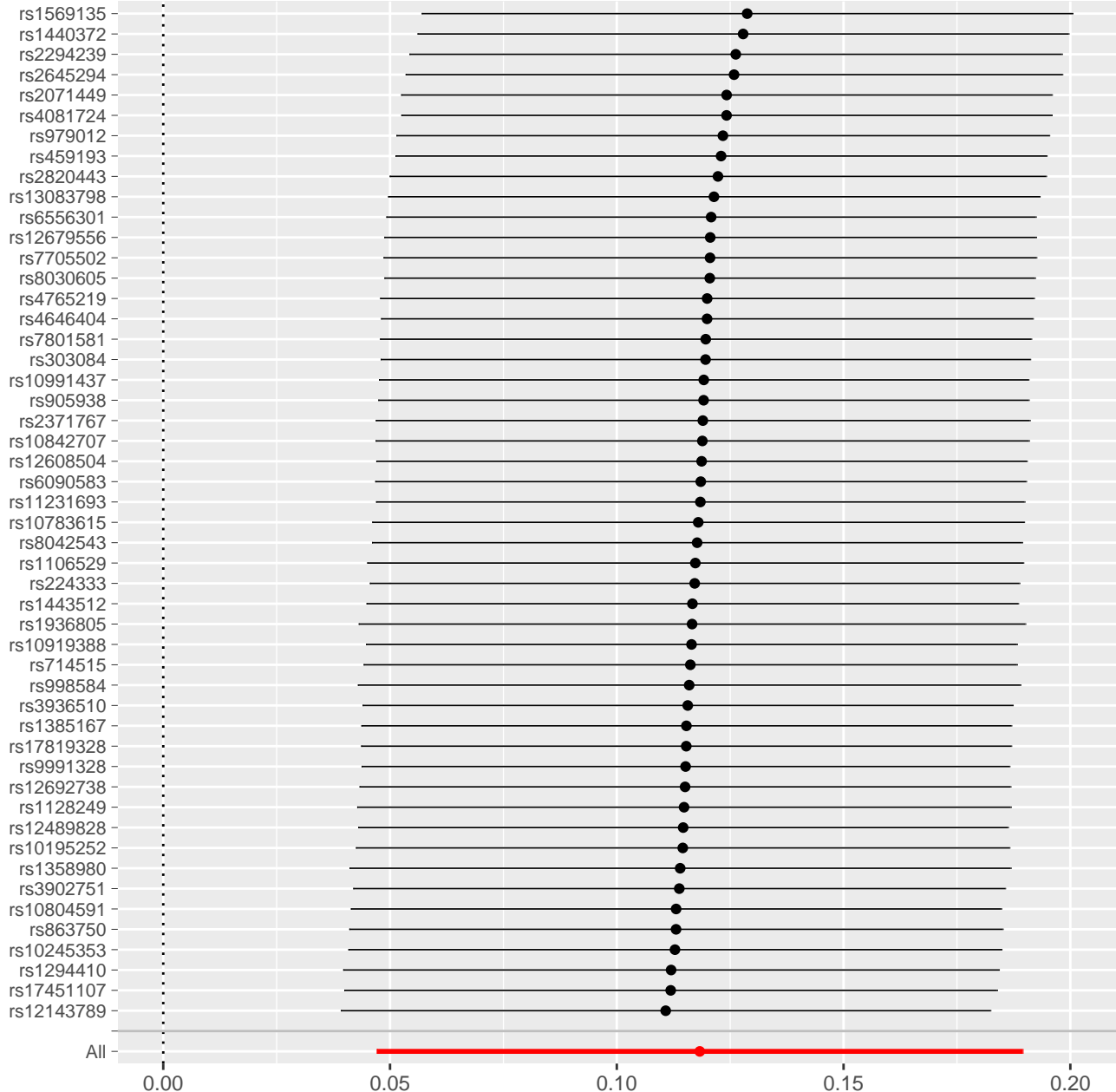
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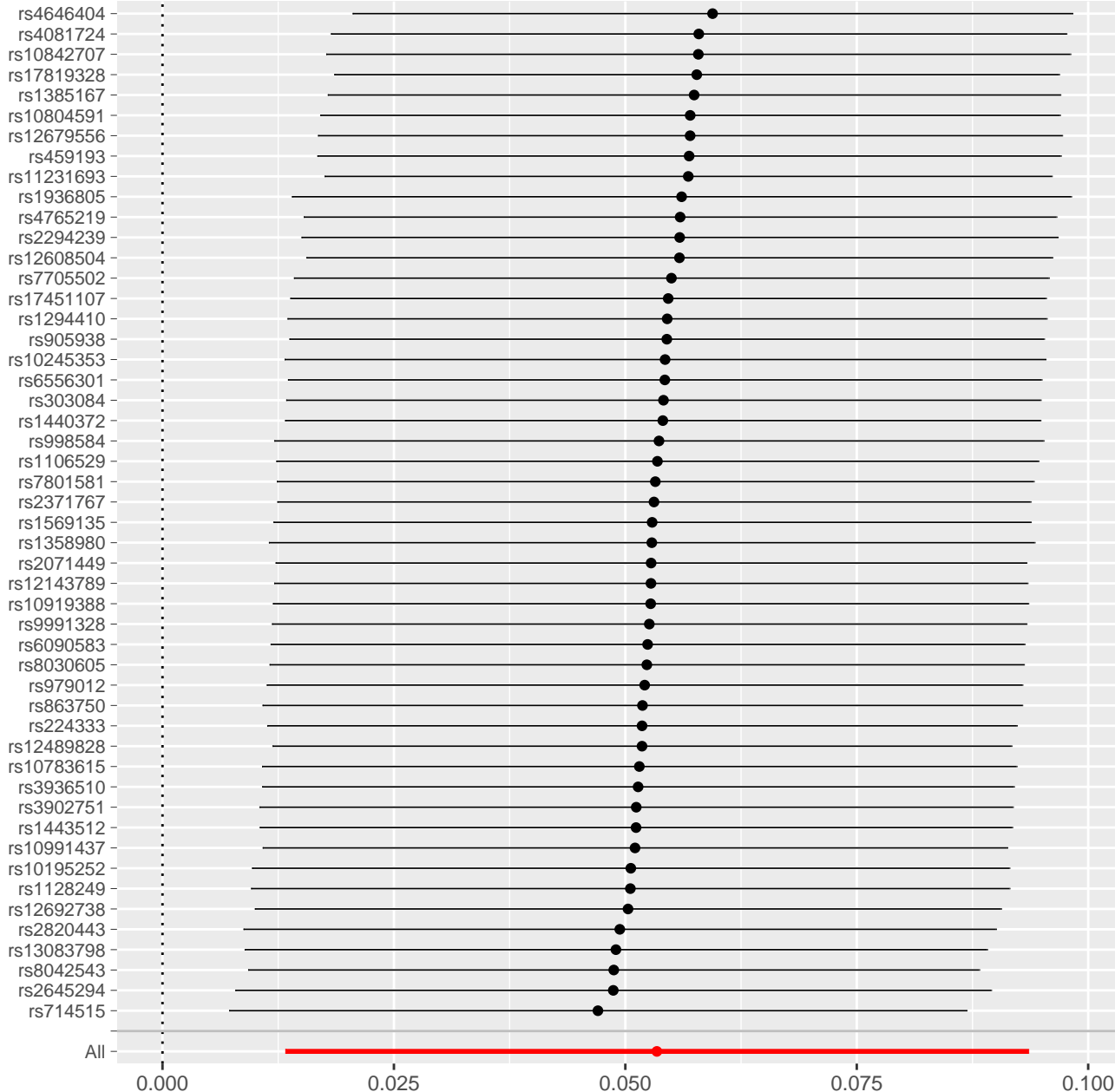'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−10500 || id:442'

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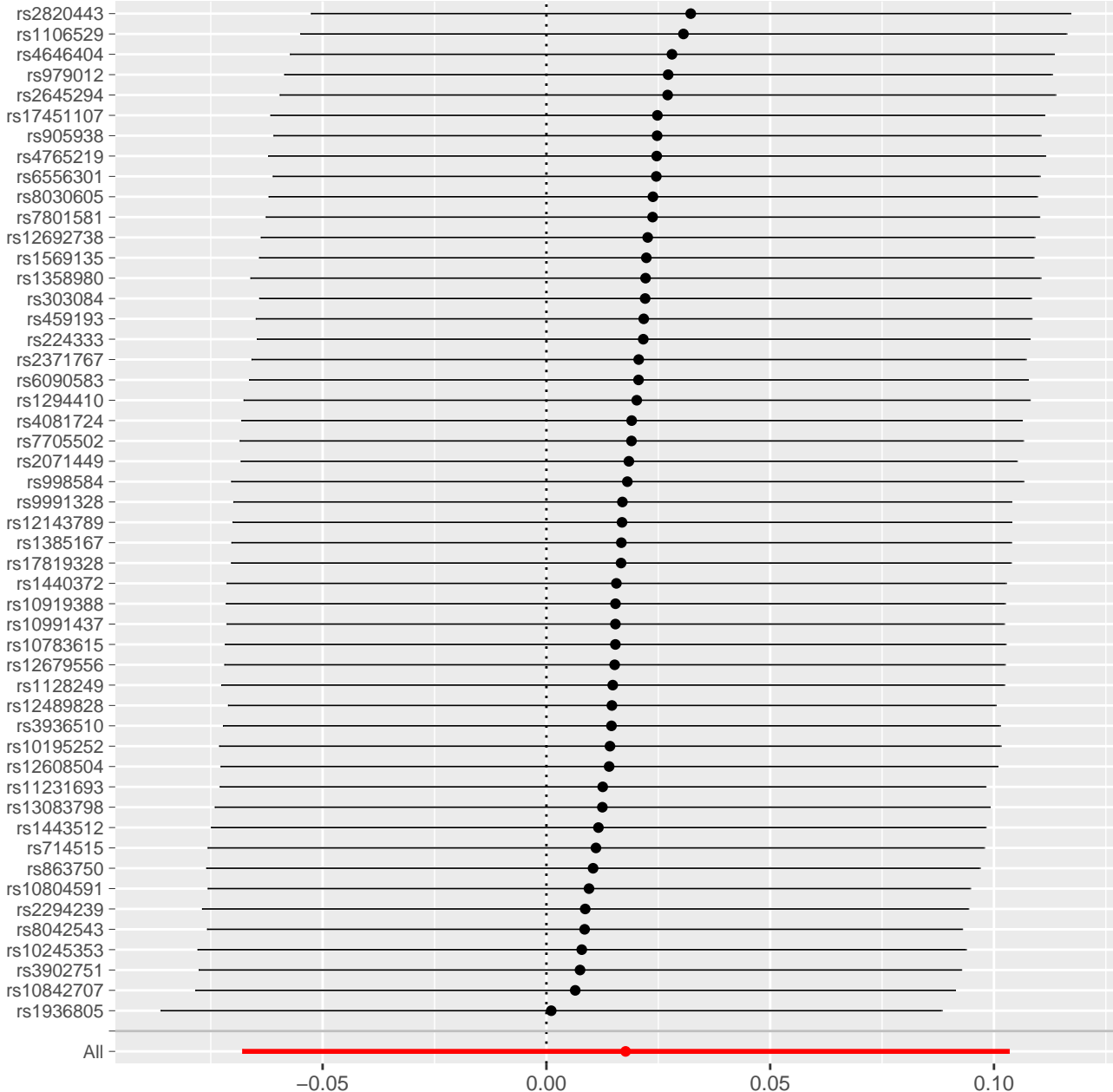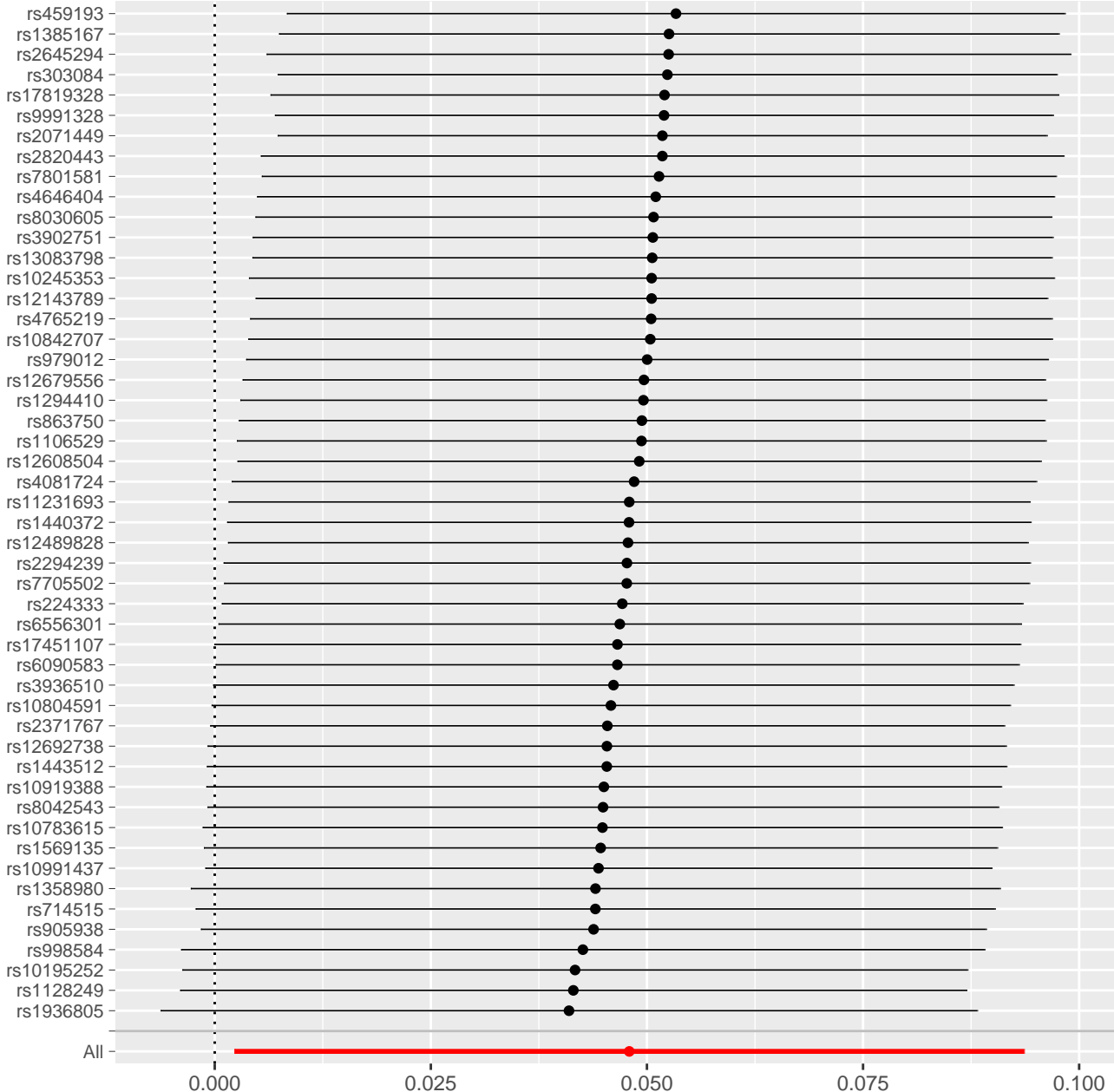'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−10506 || id:443'

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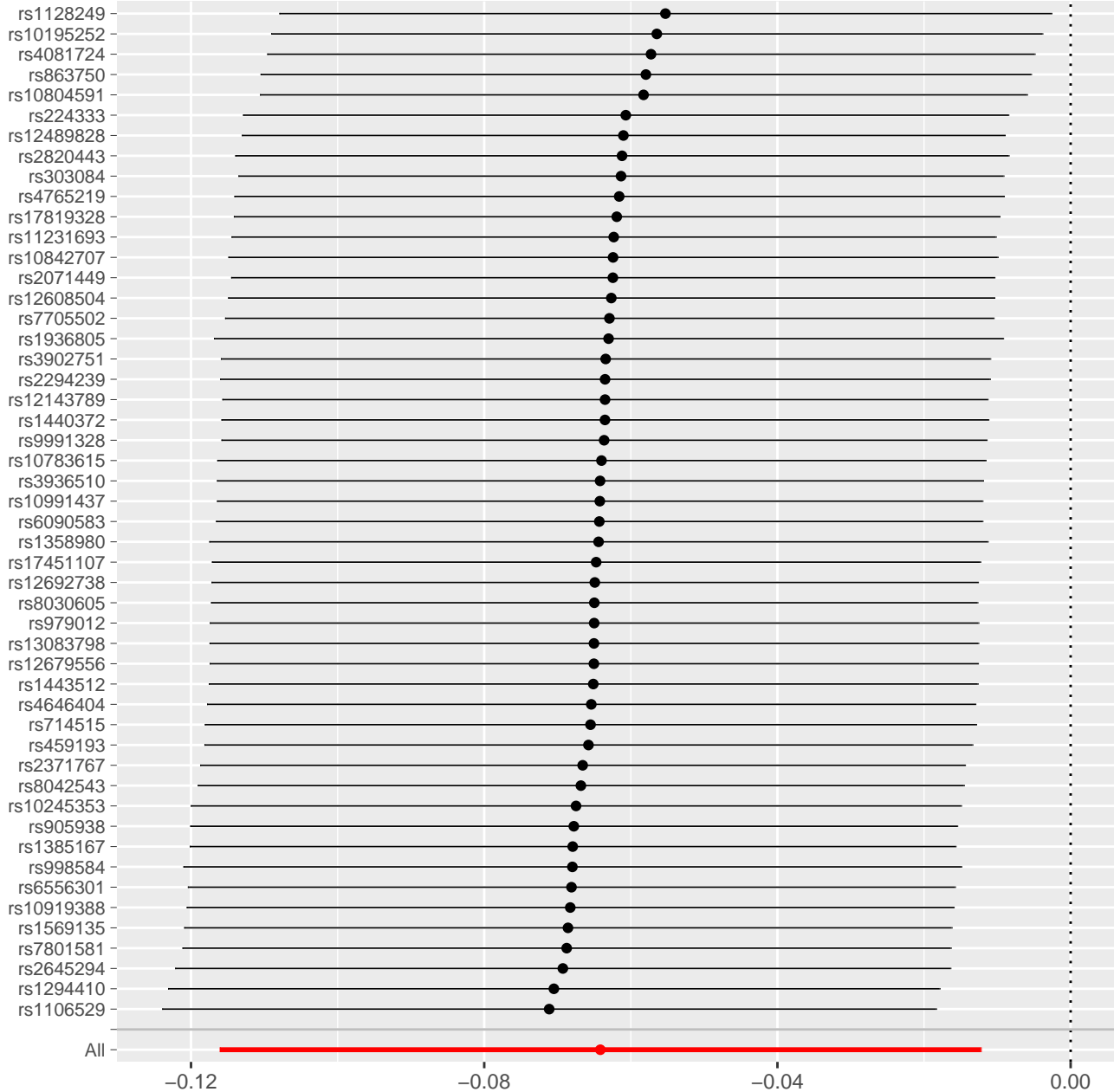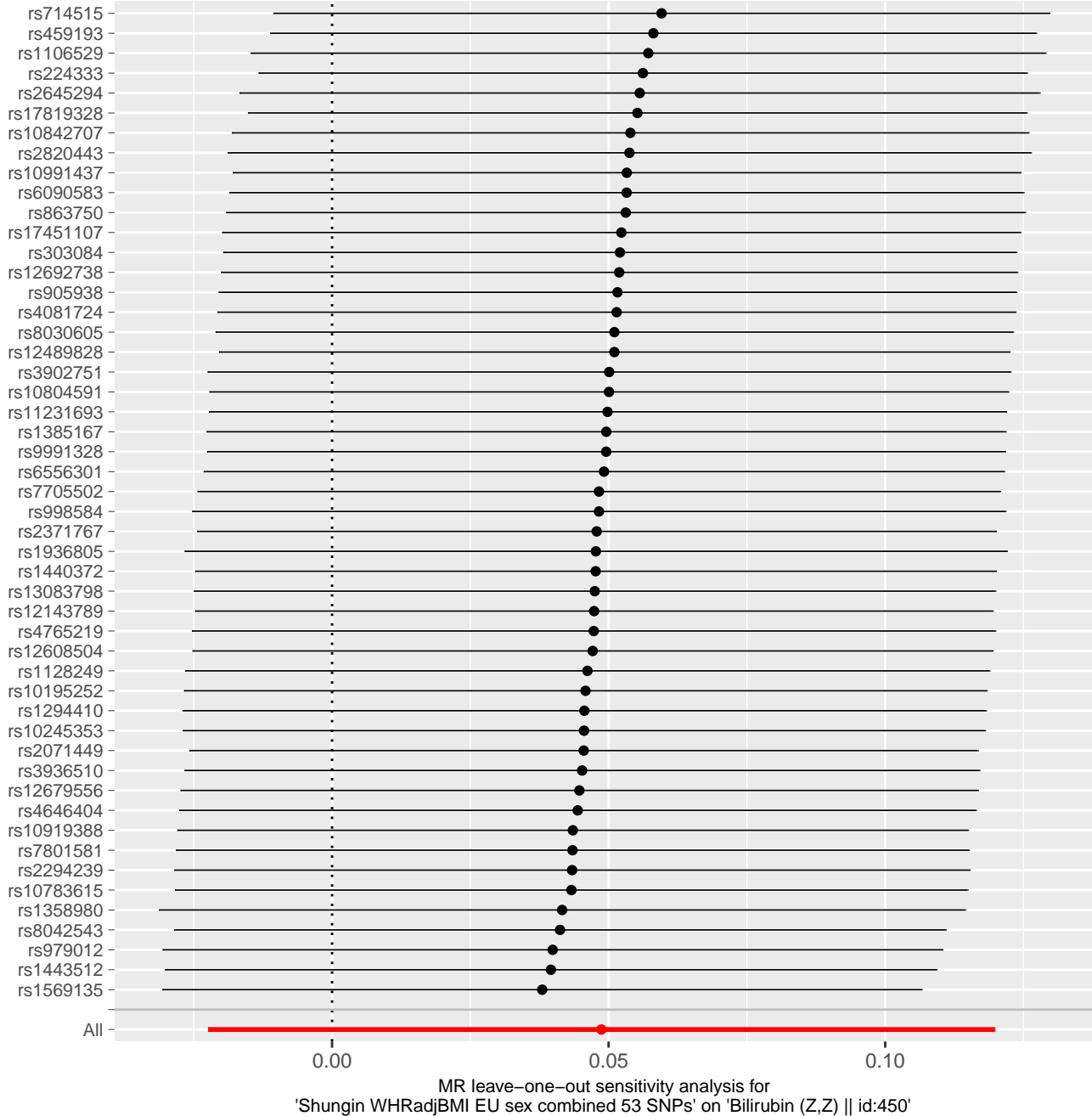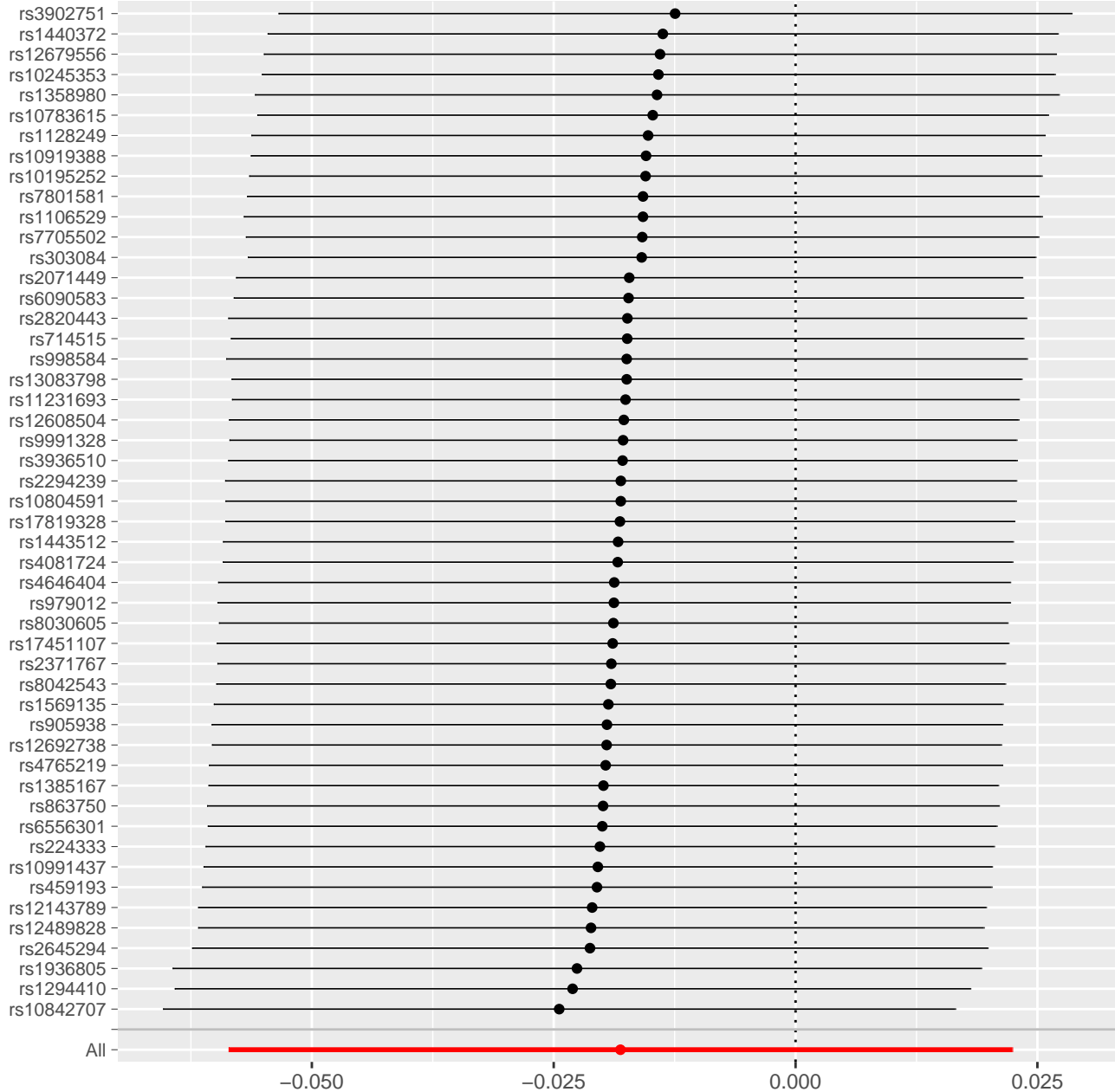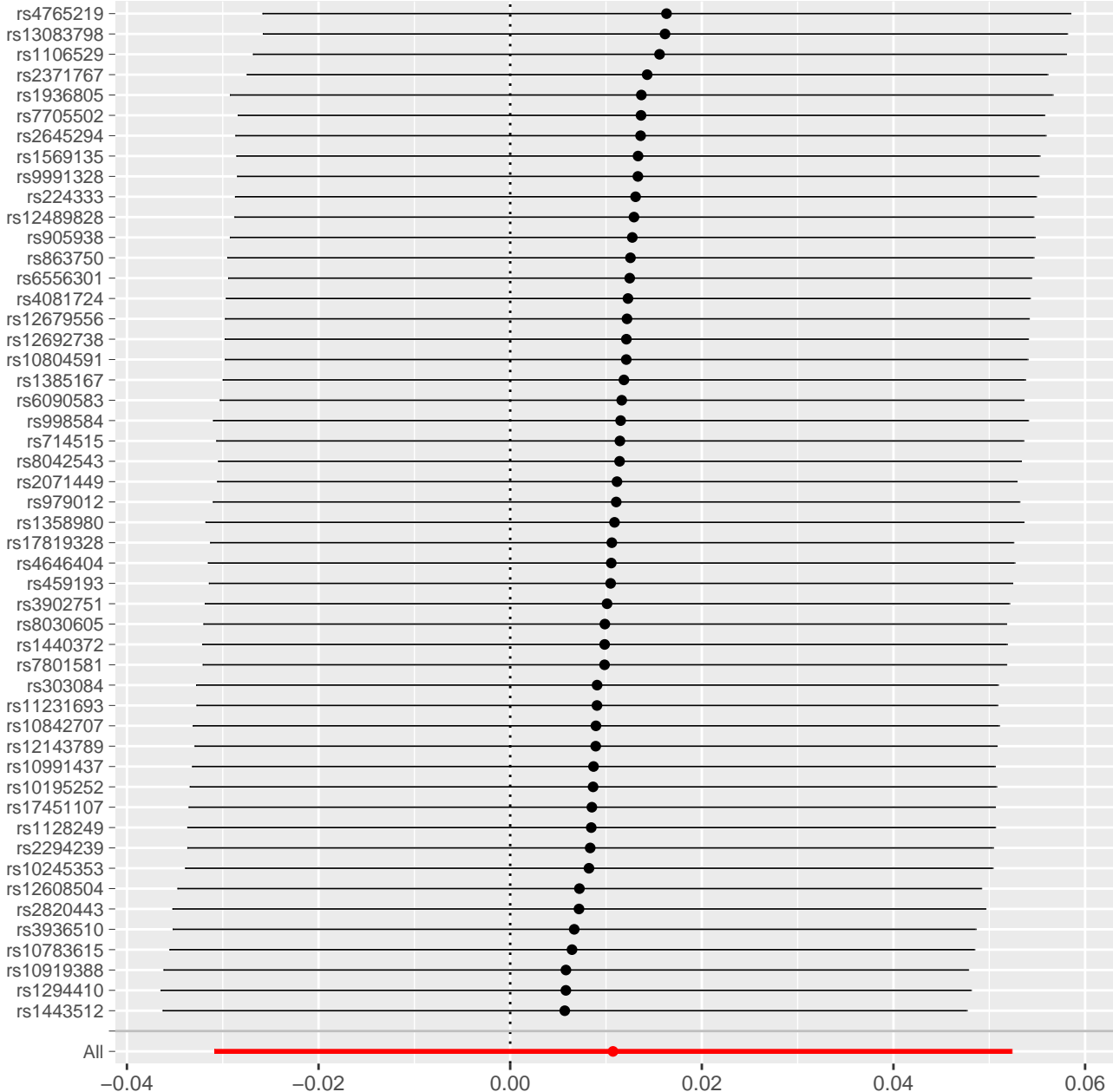
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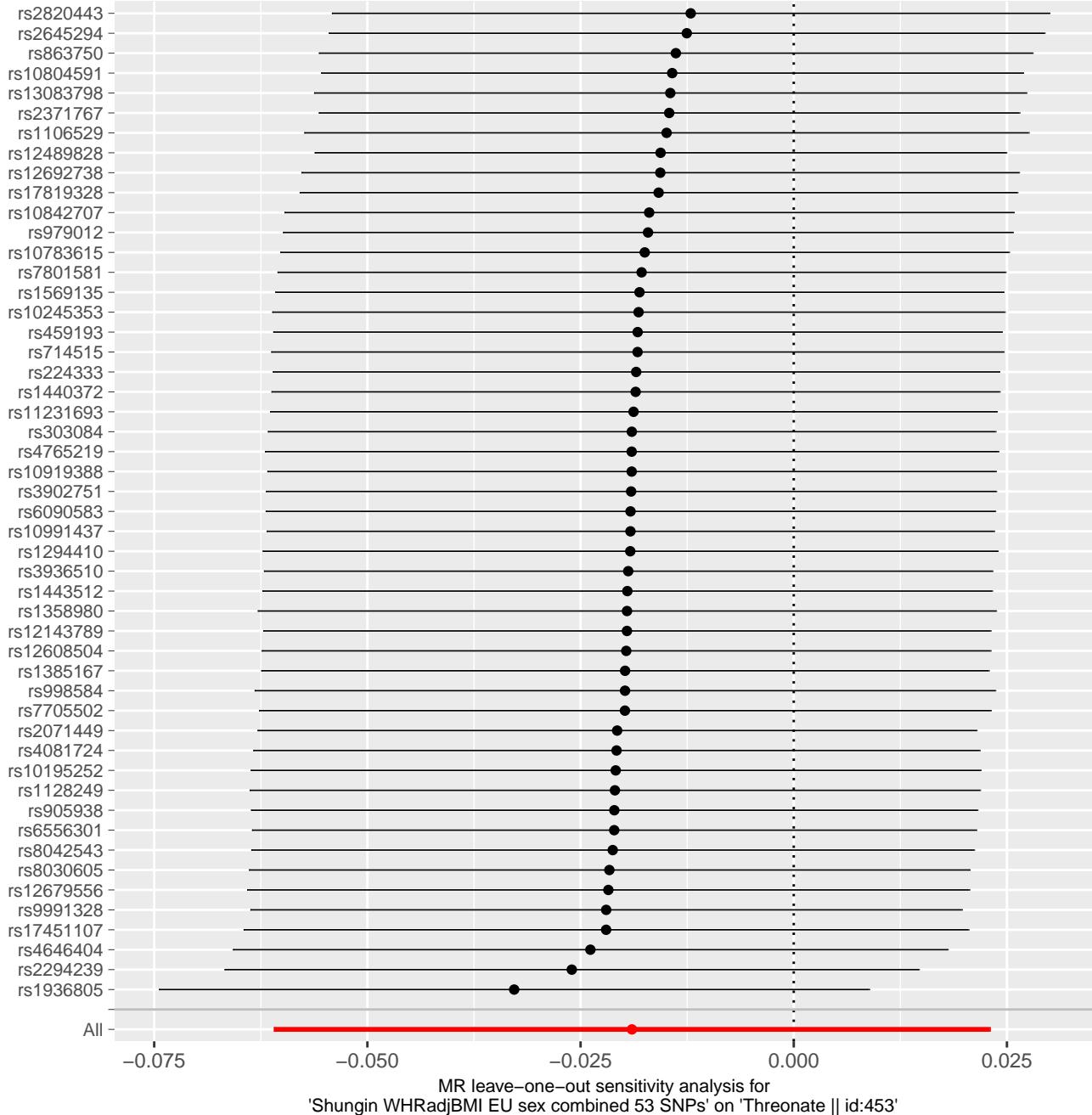'Shungin WHRadjBMI EU sex combined 53 SNPs' on '3−indoxyl sulfate || id:448'

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MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Bilirubin (Z,Z) || id:450'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Creatine || id:451'

MR leave−out−out sensitivity analysis for
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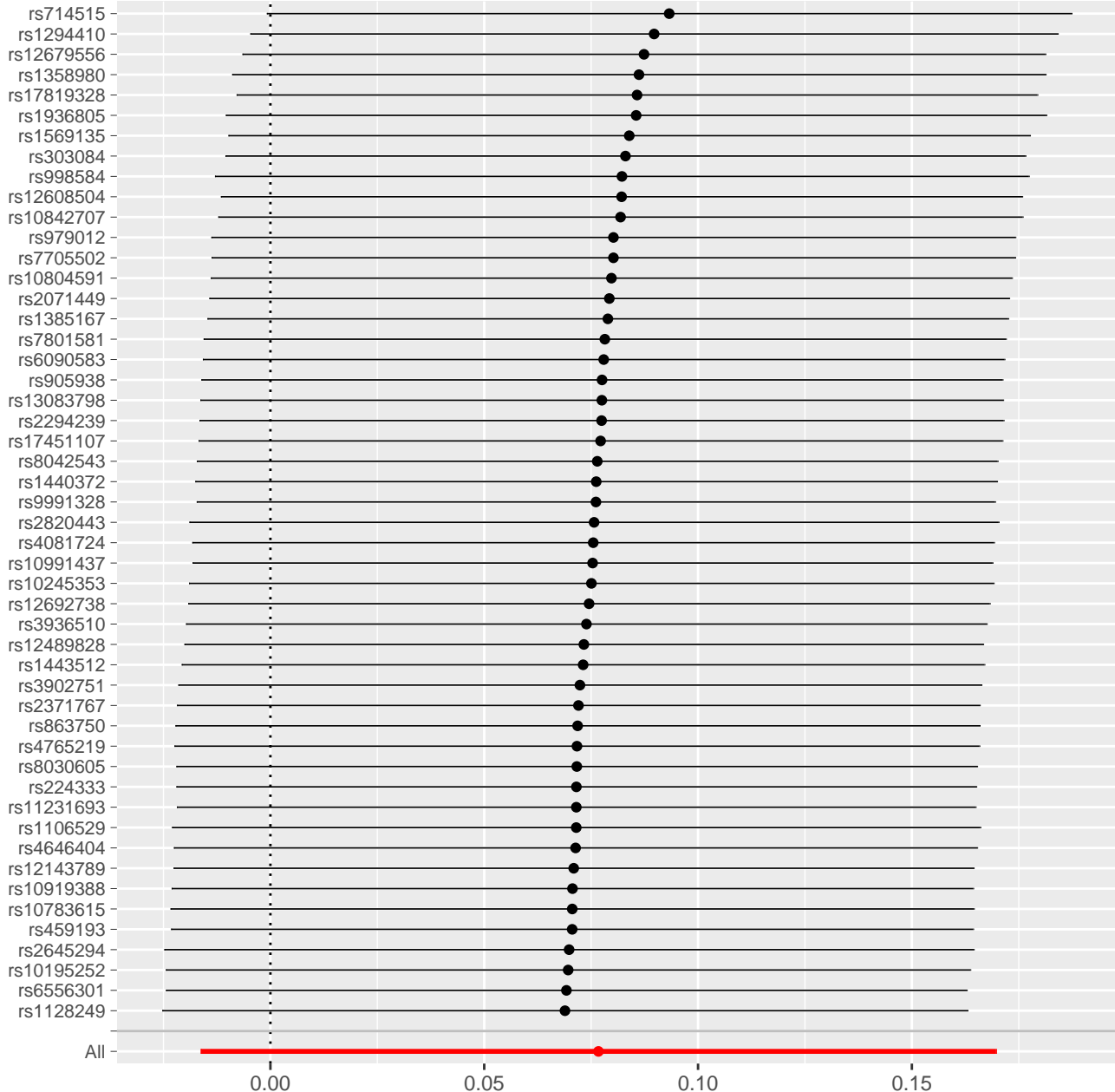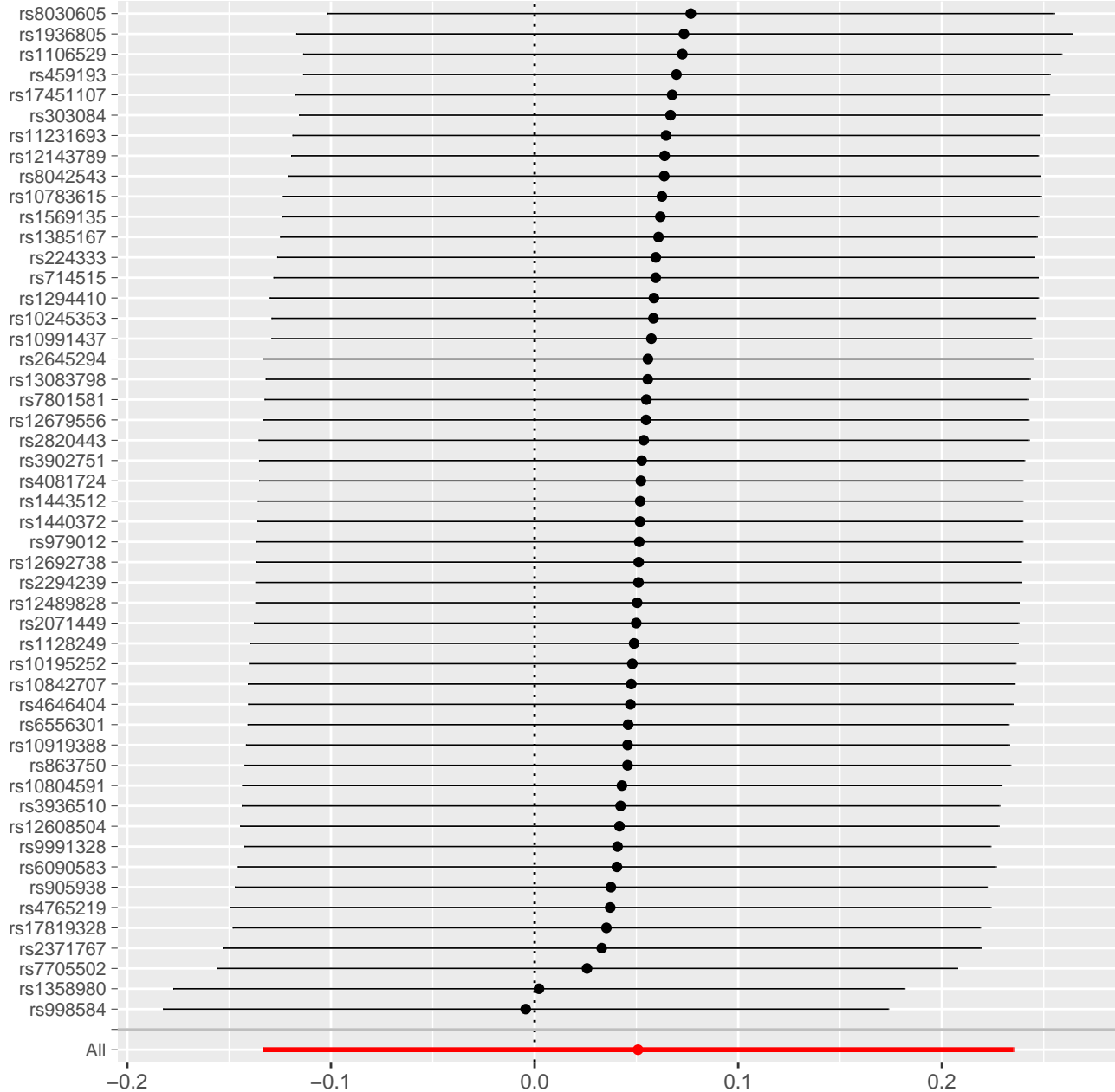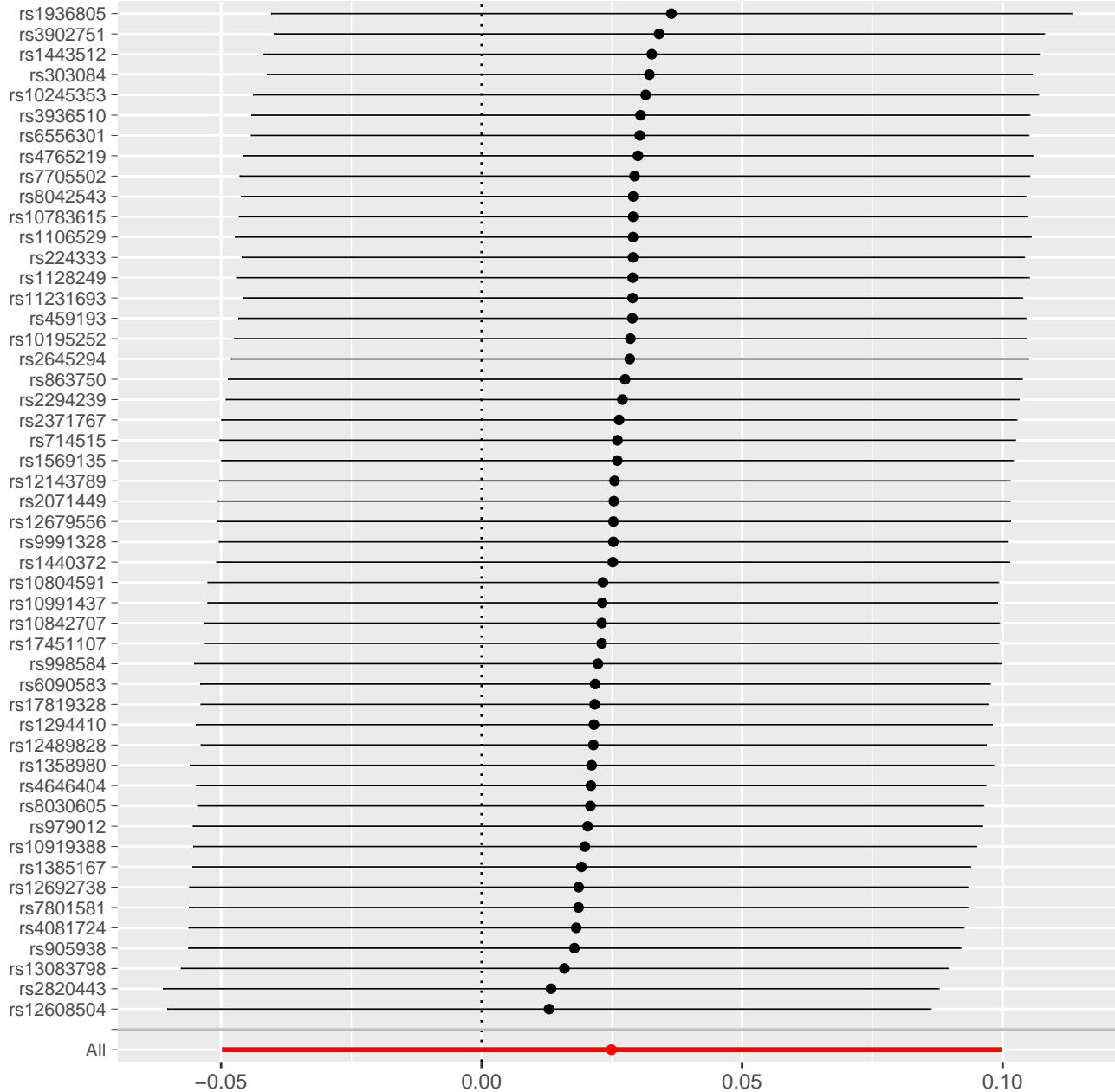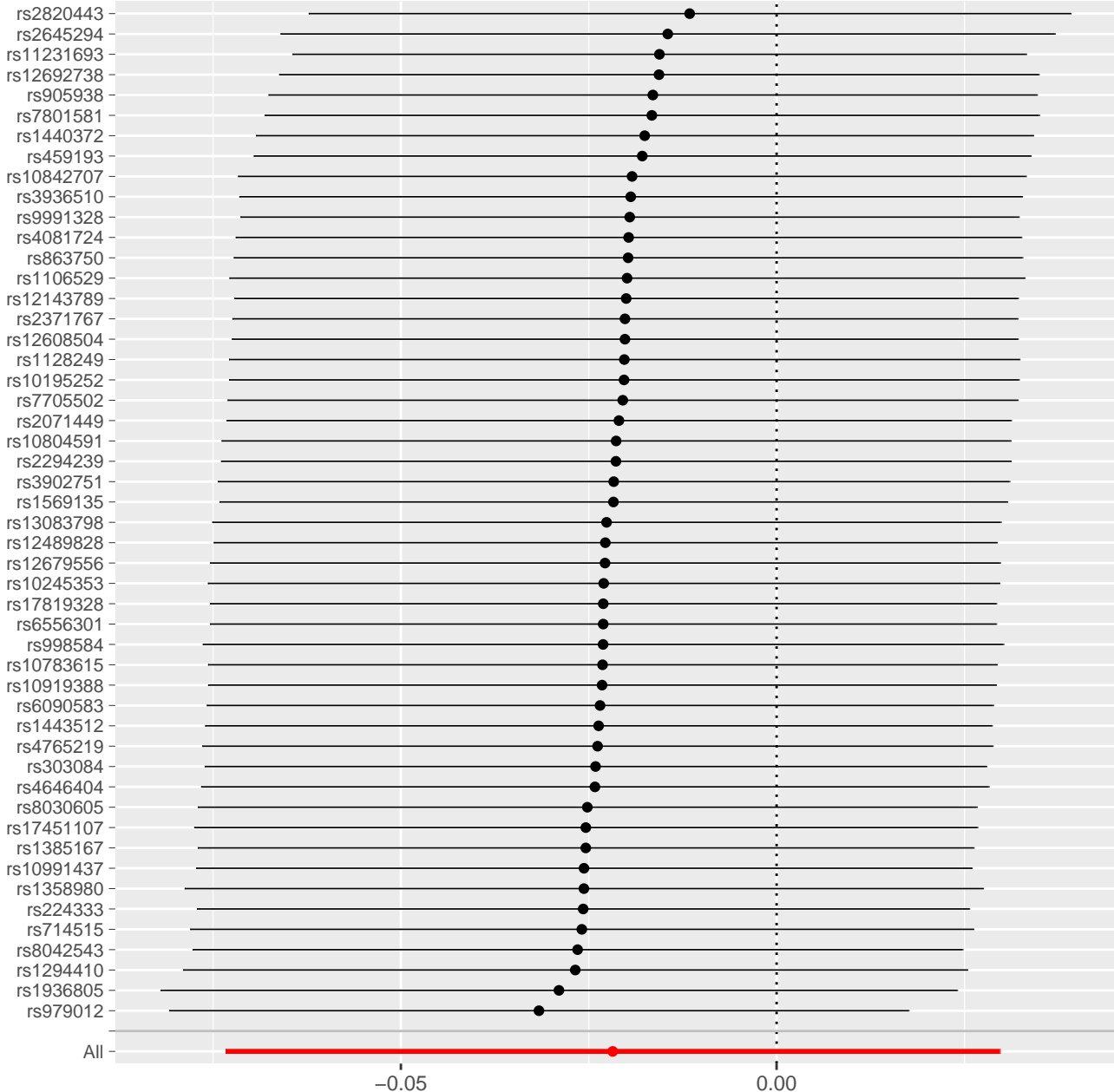'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−10810 || id:454'

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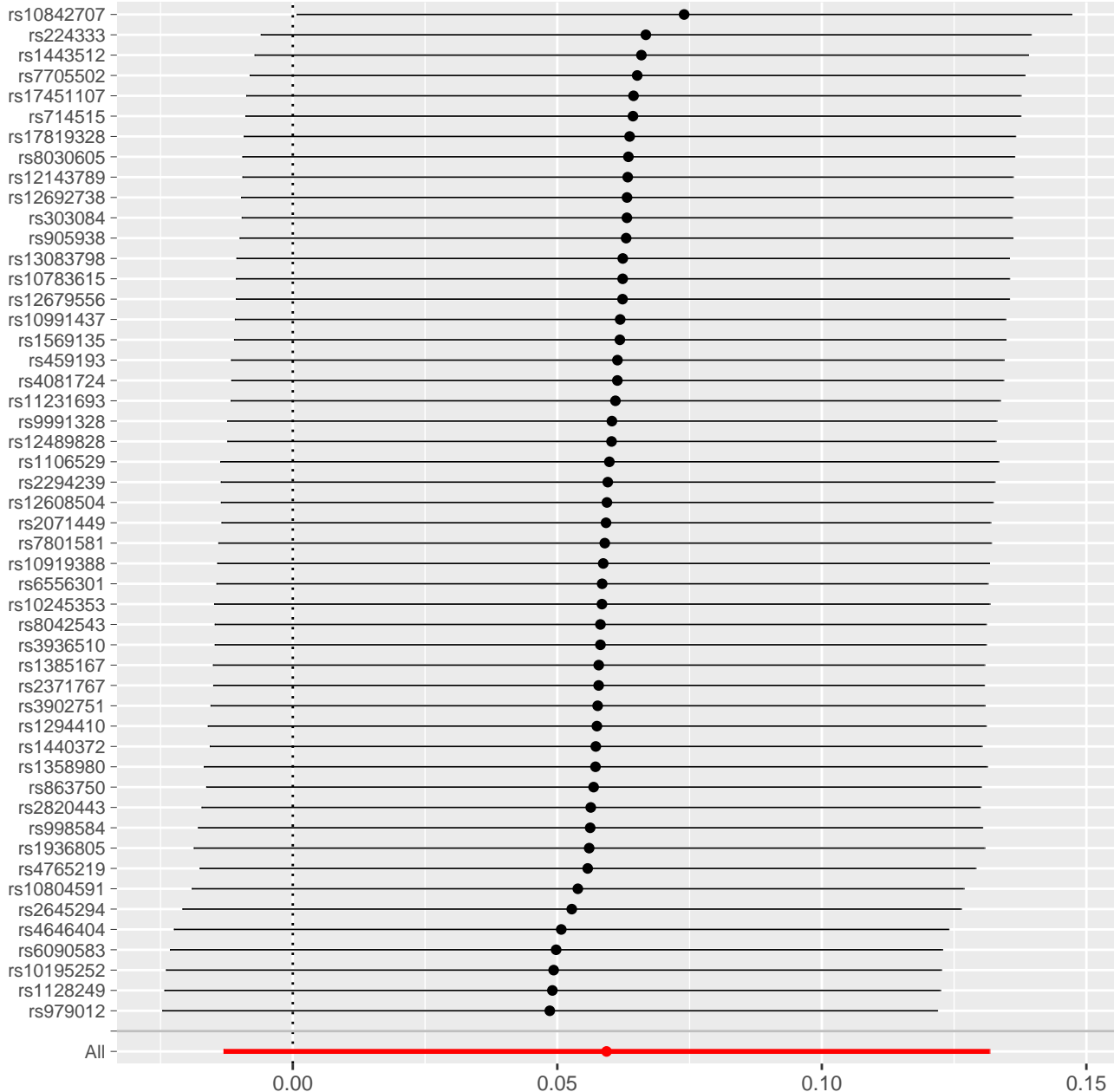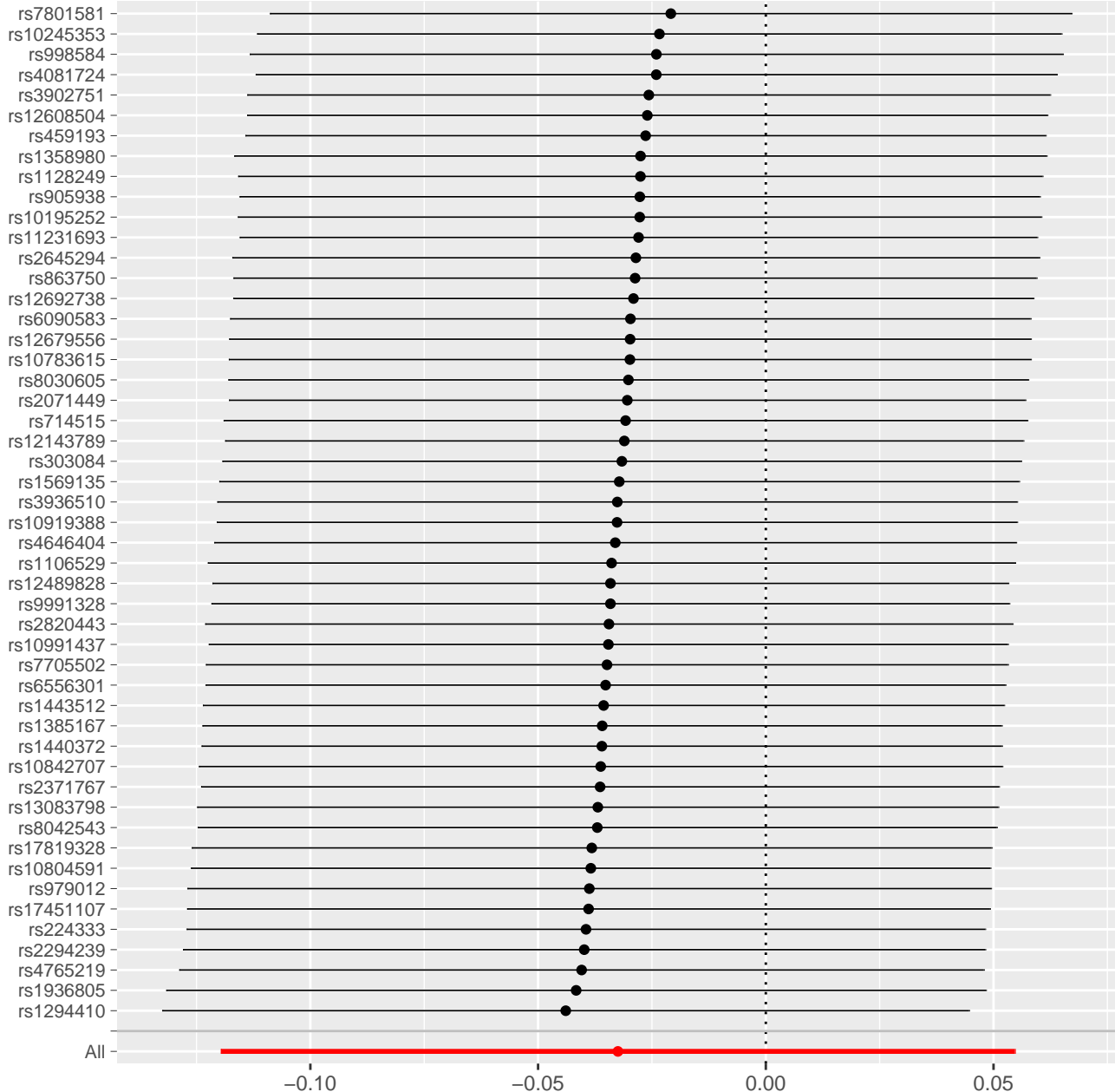'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Cysteine || id:455'

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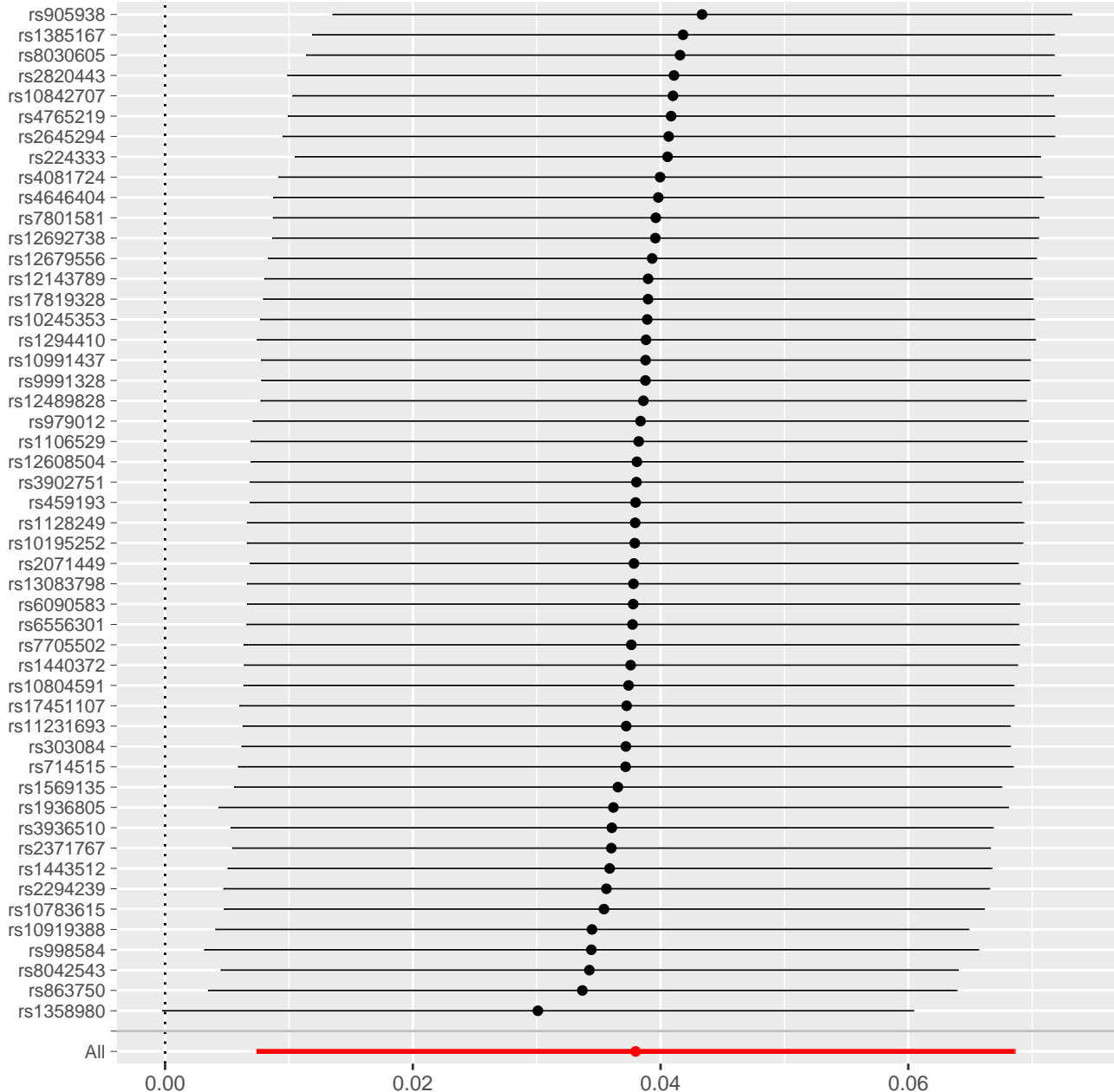'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Pyroglutamylglycine || id:456'

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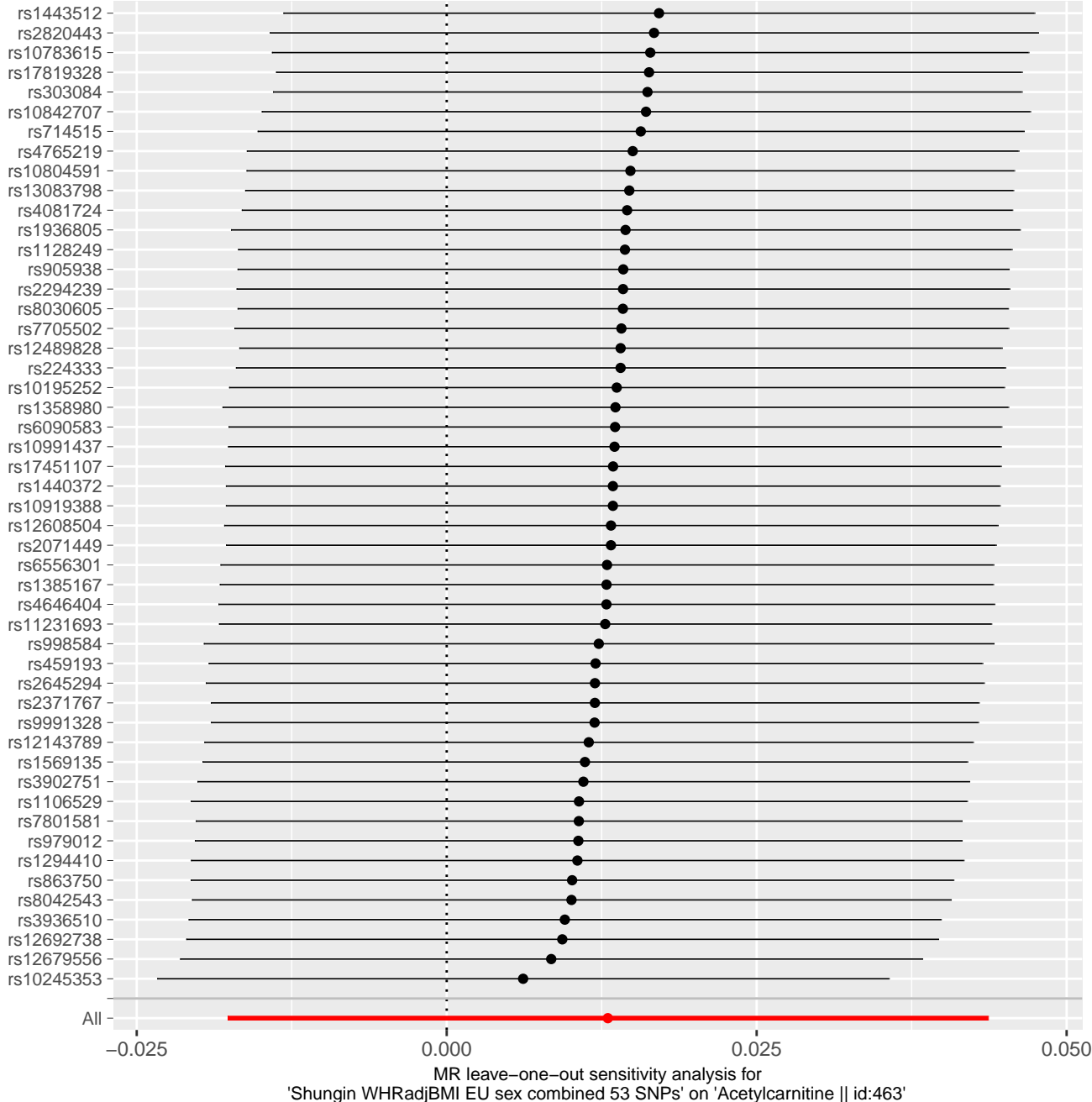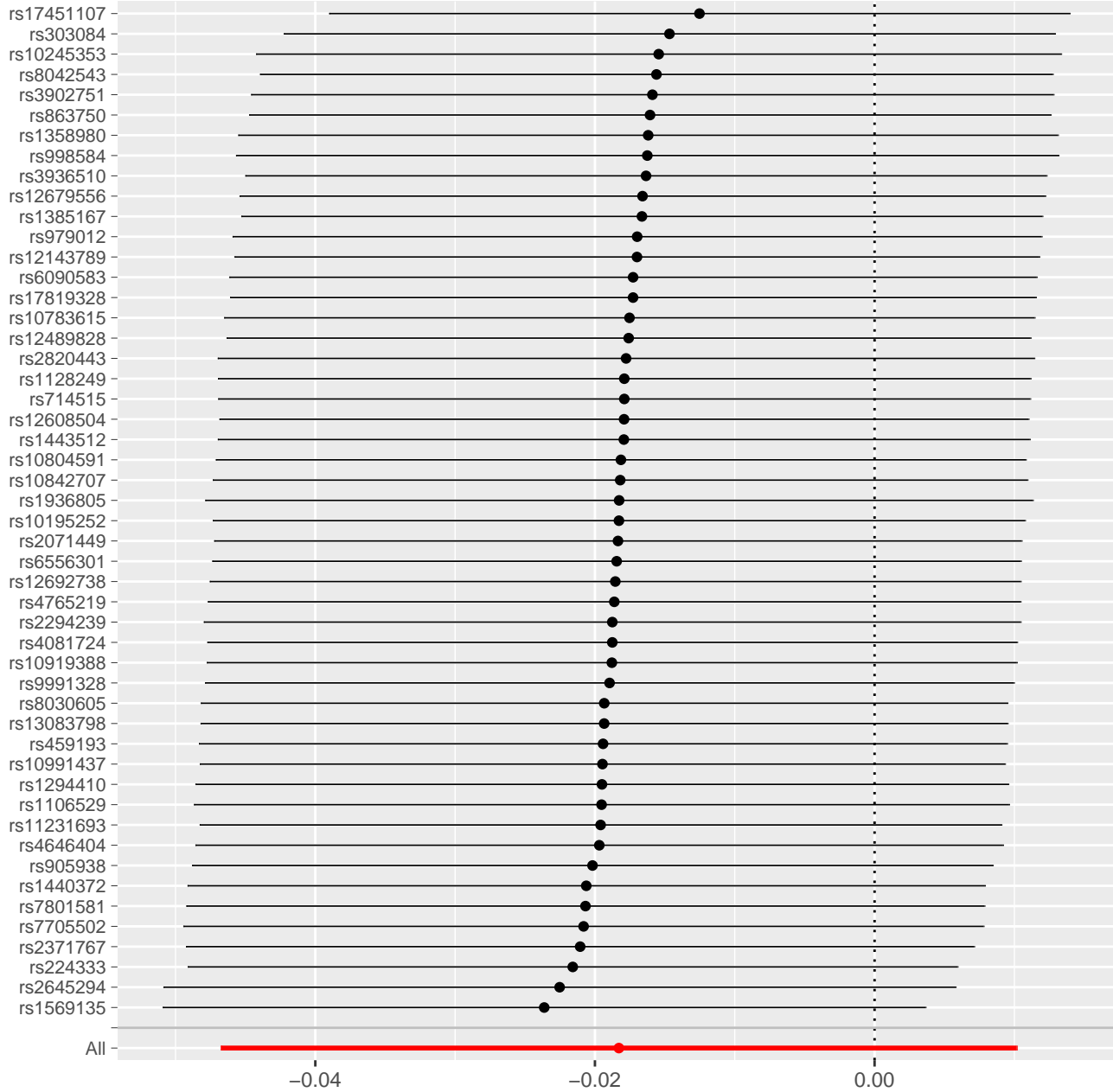
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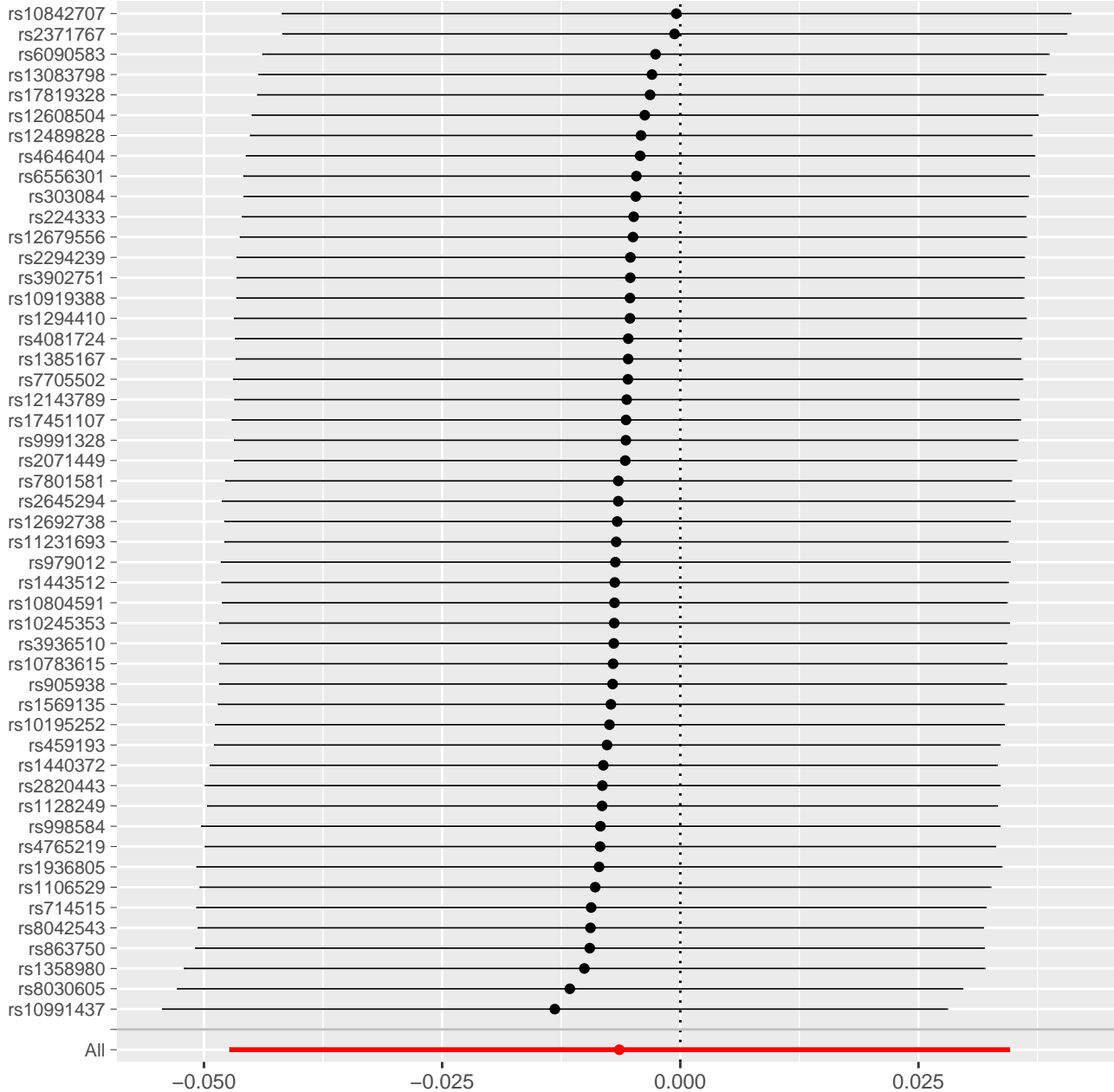
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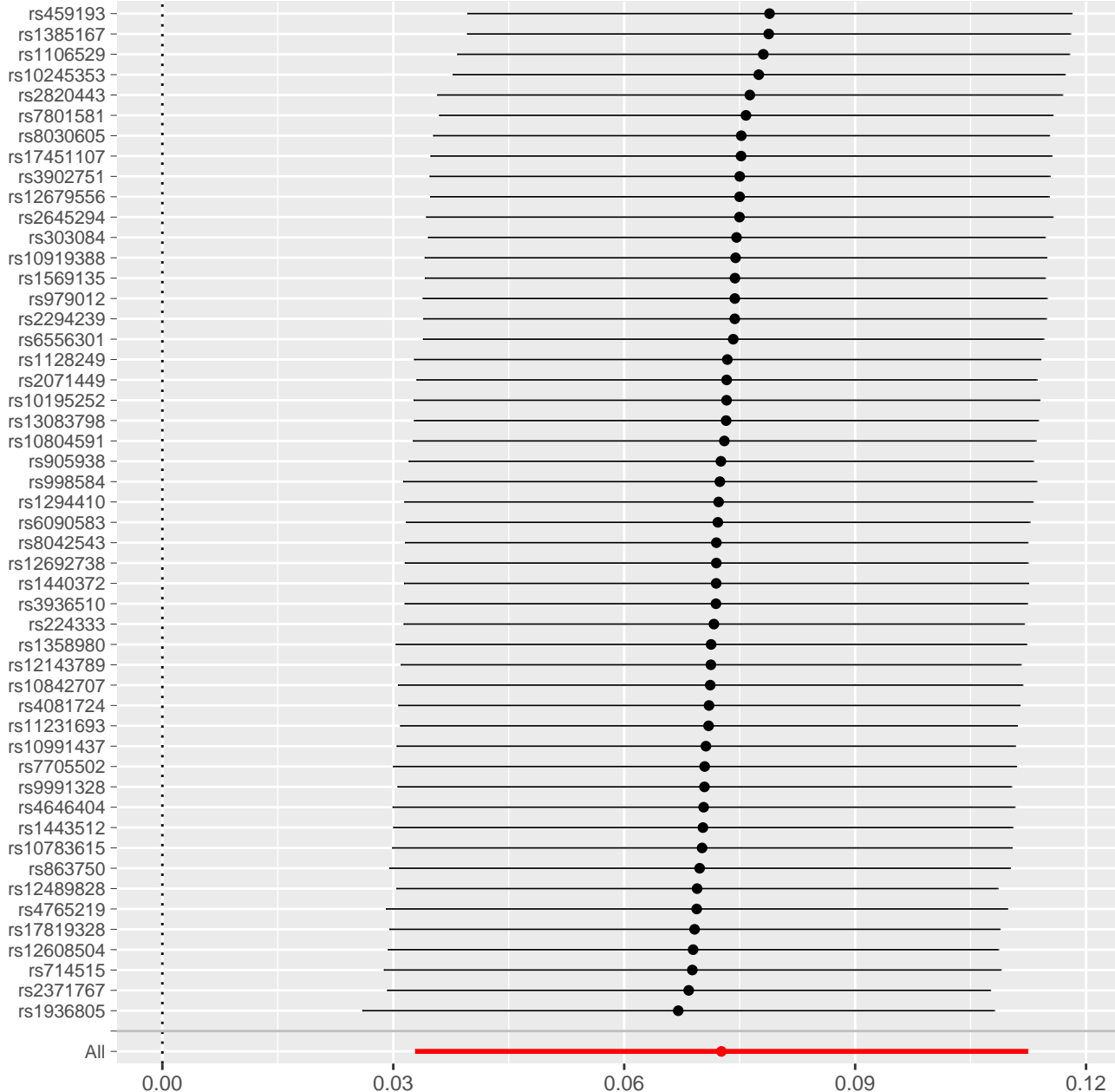'Shungin WHRadjBMI EU sex combined 53 SNPs' on '3−(4−hydroxyphenyl)lactate || id:462'
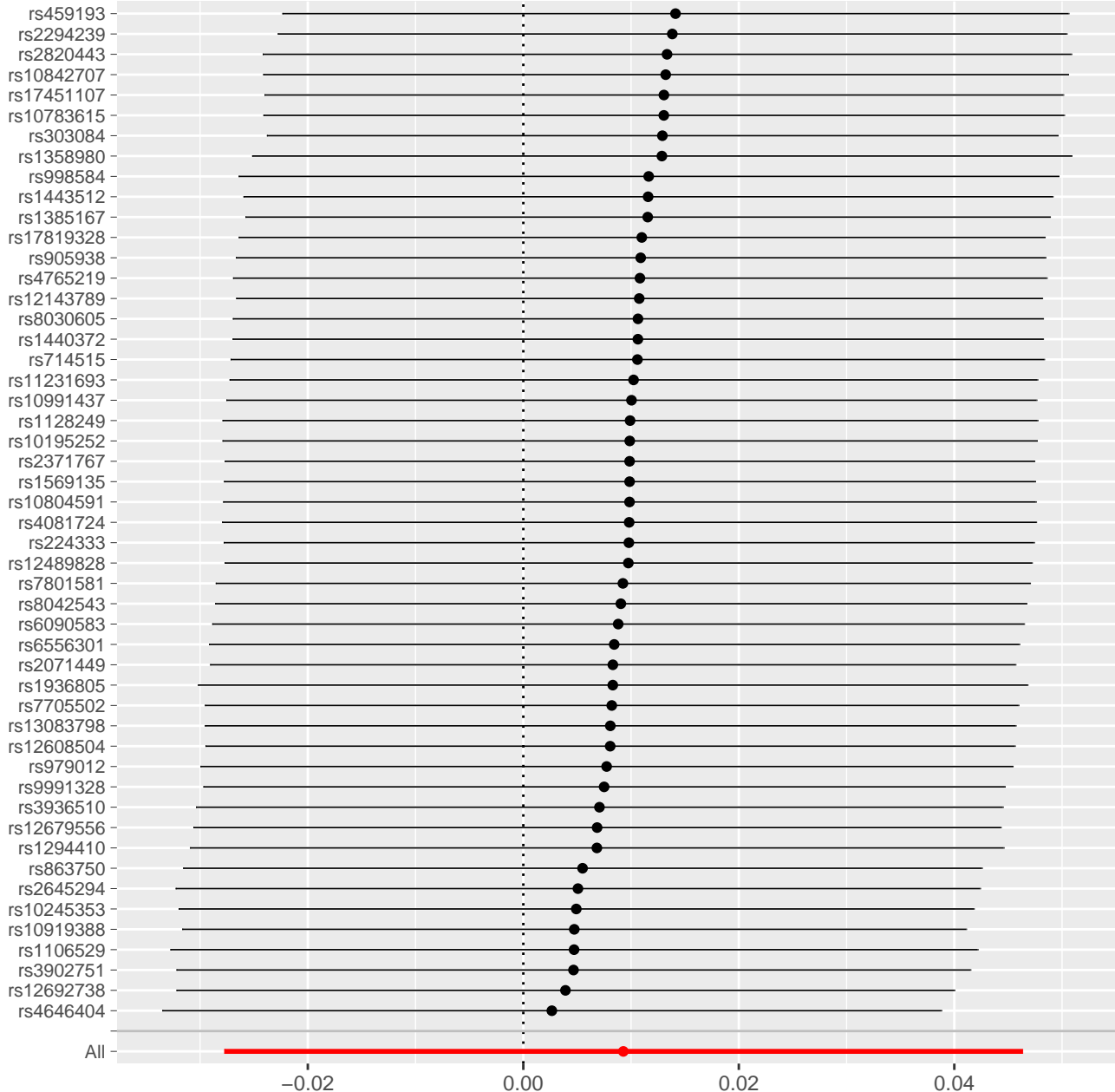
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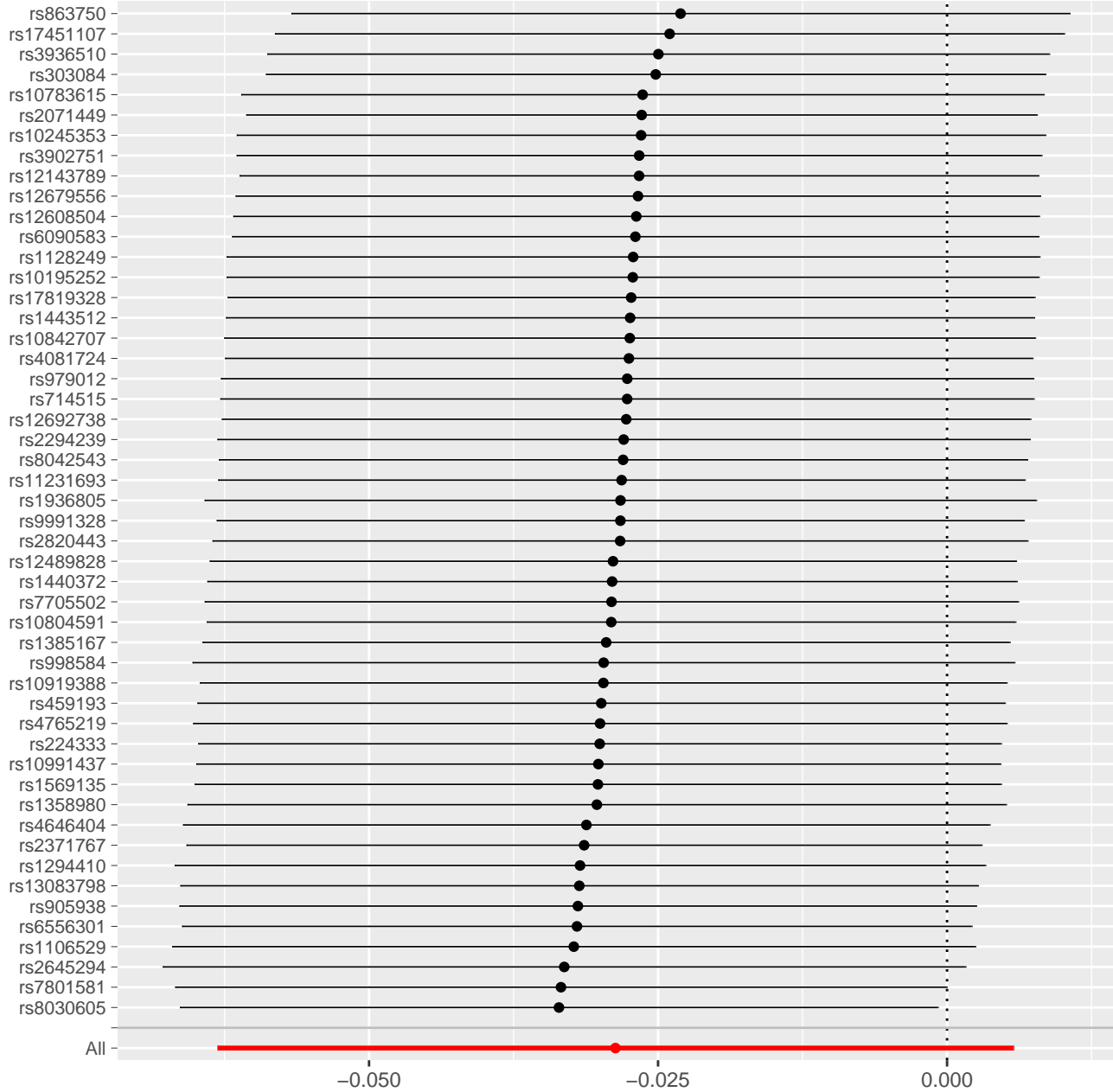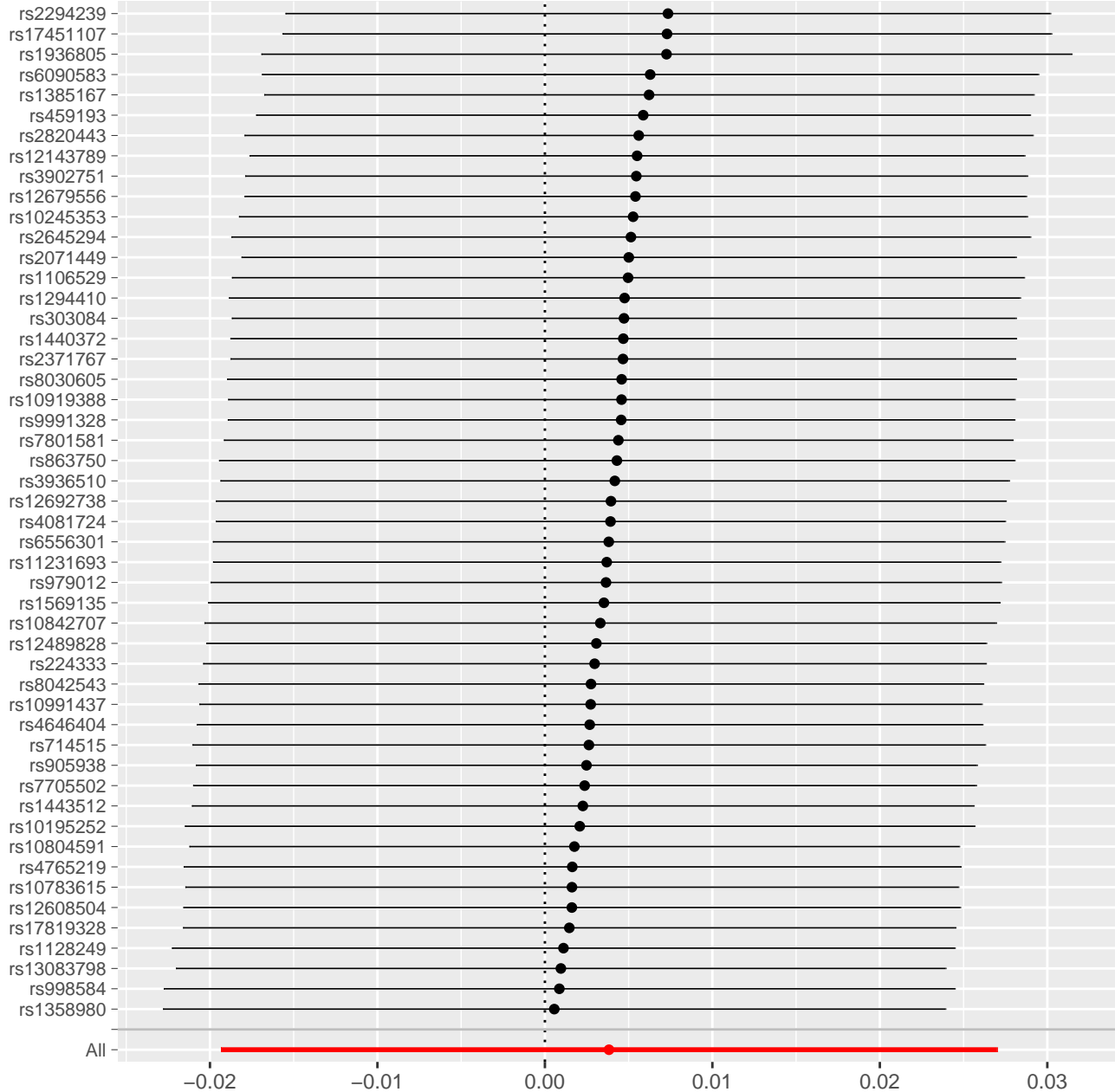'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Serine || id:464'

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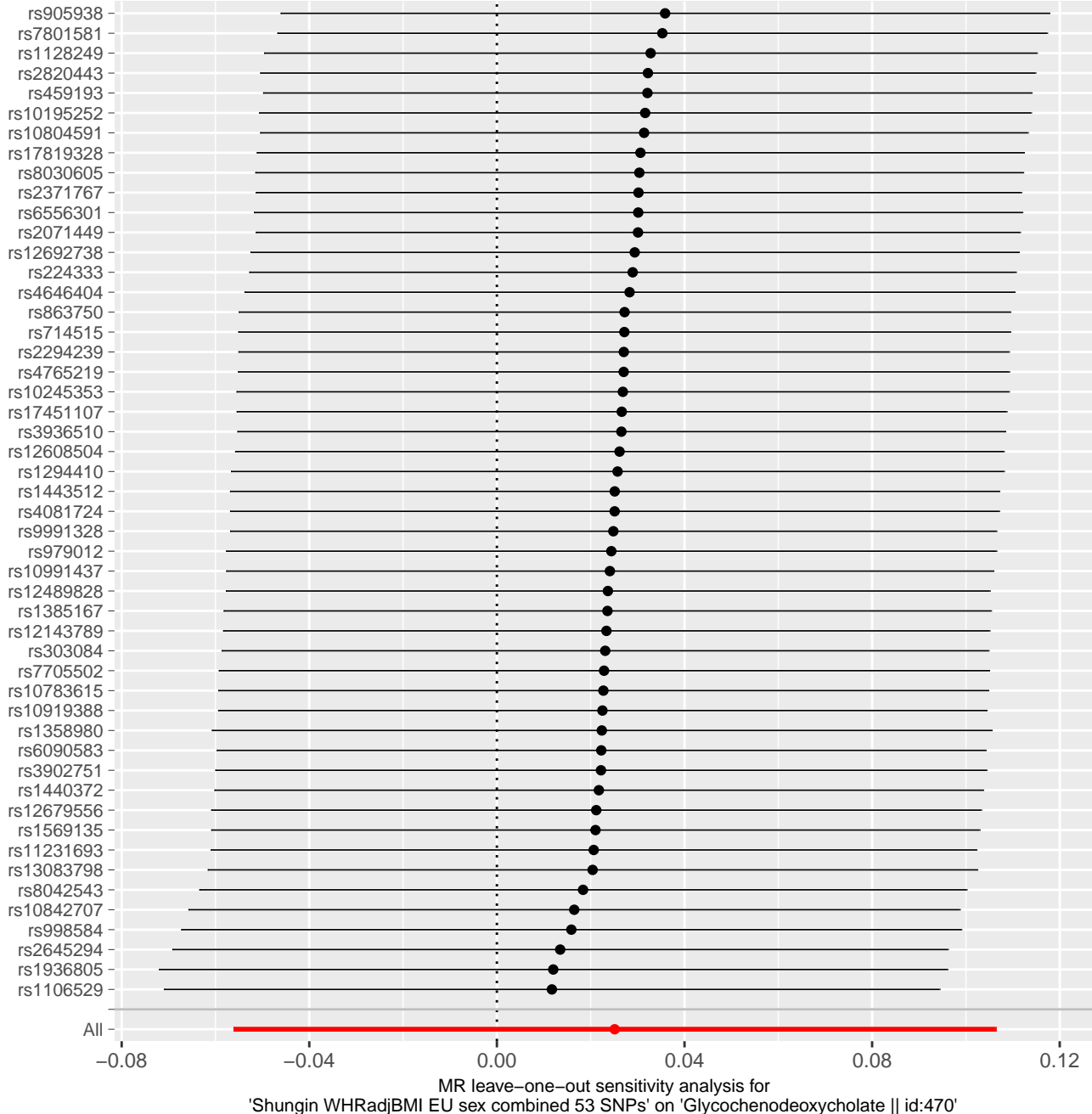
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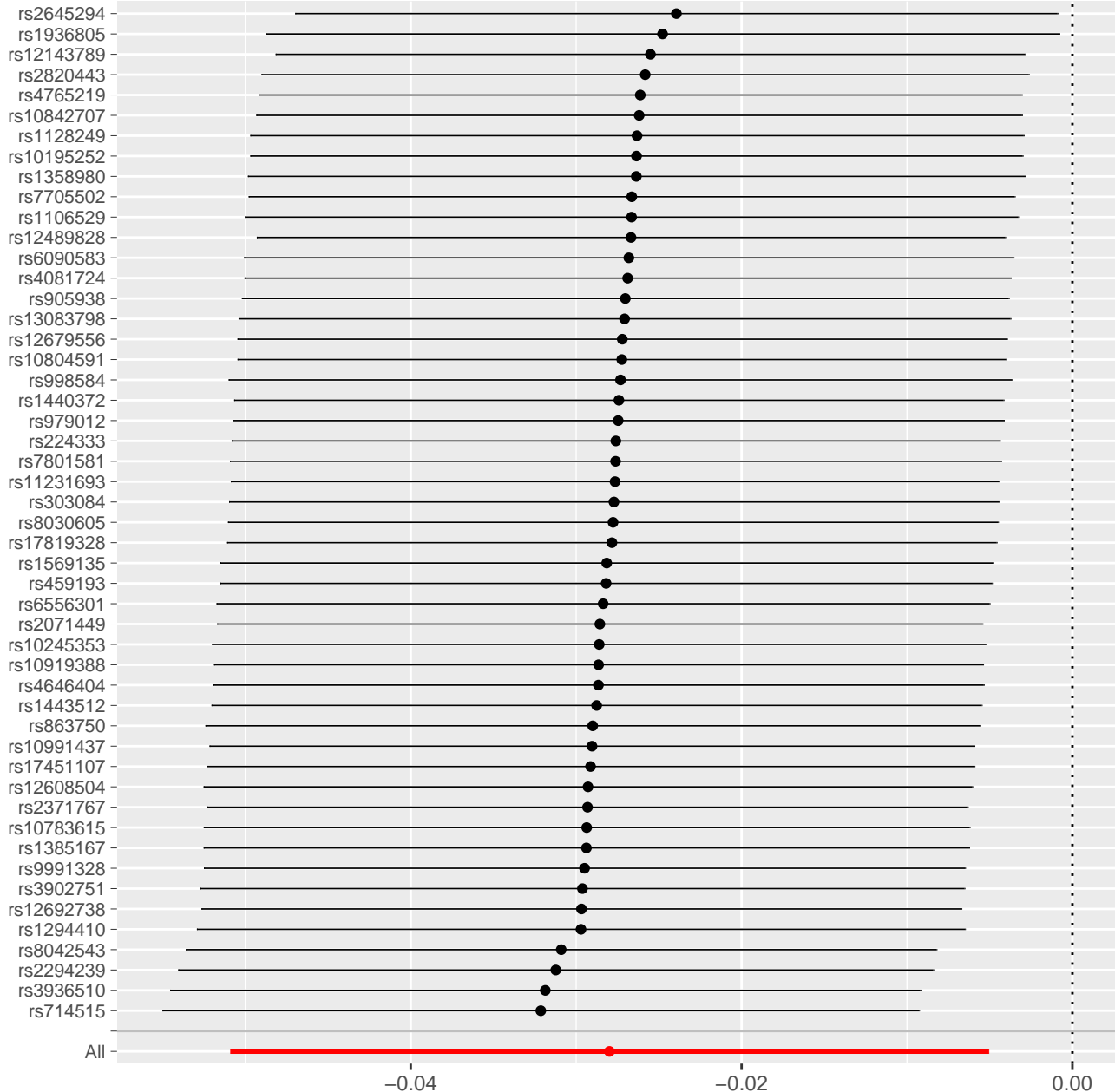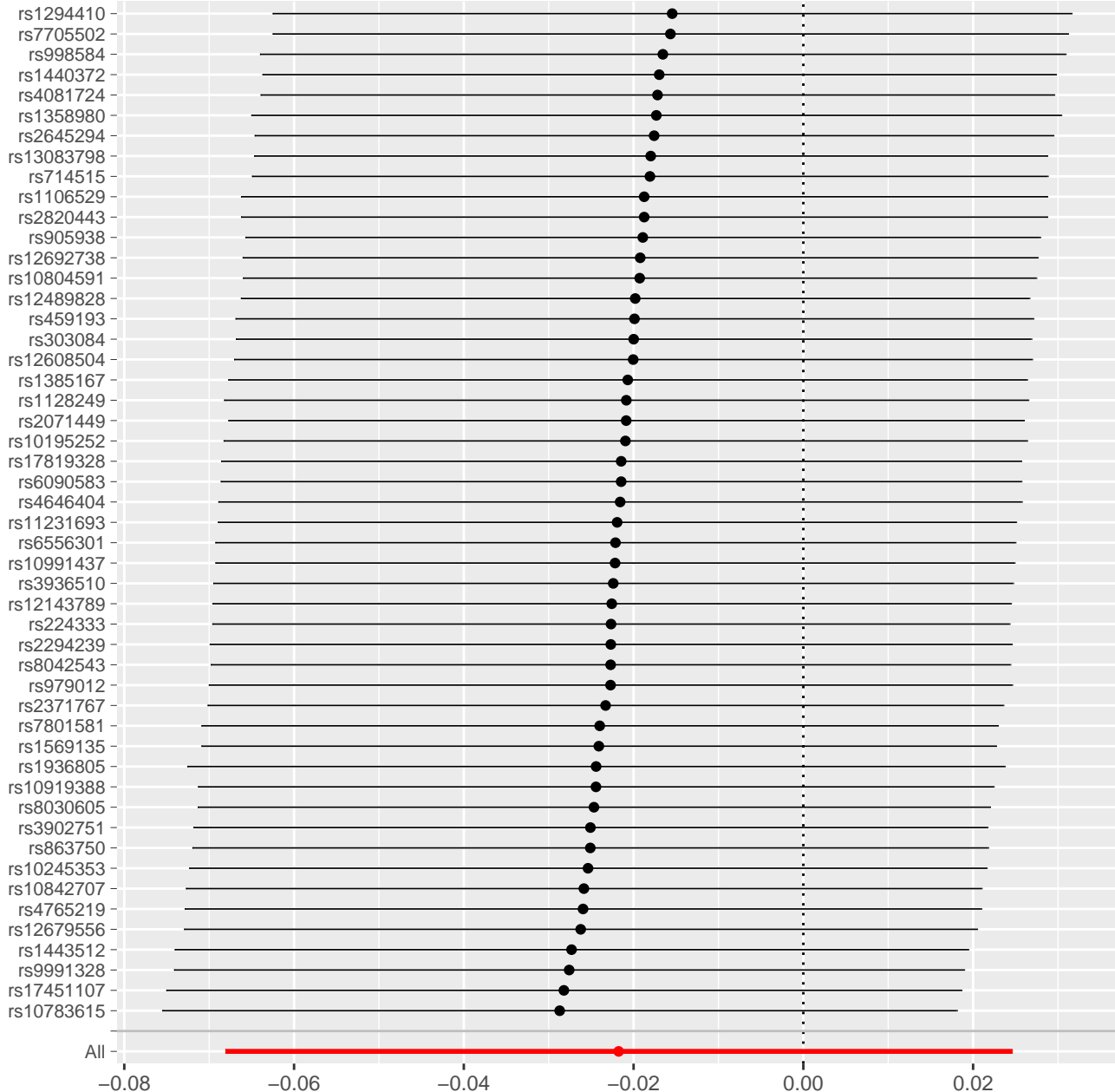'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Glutamate || id:466'

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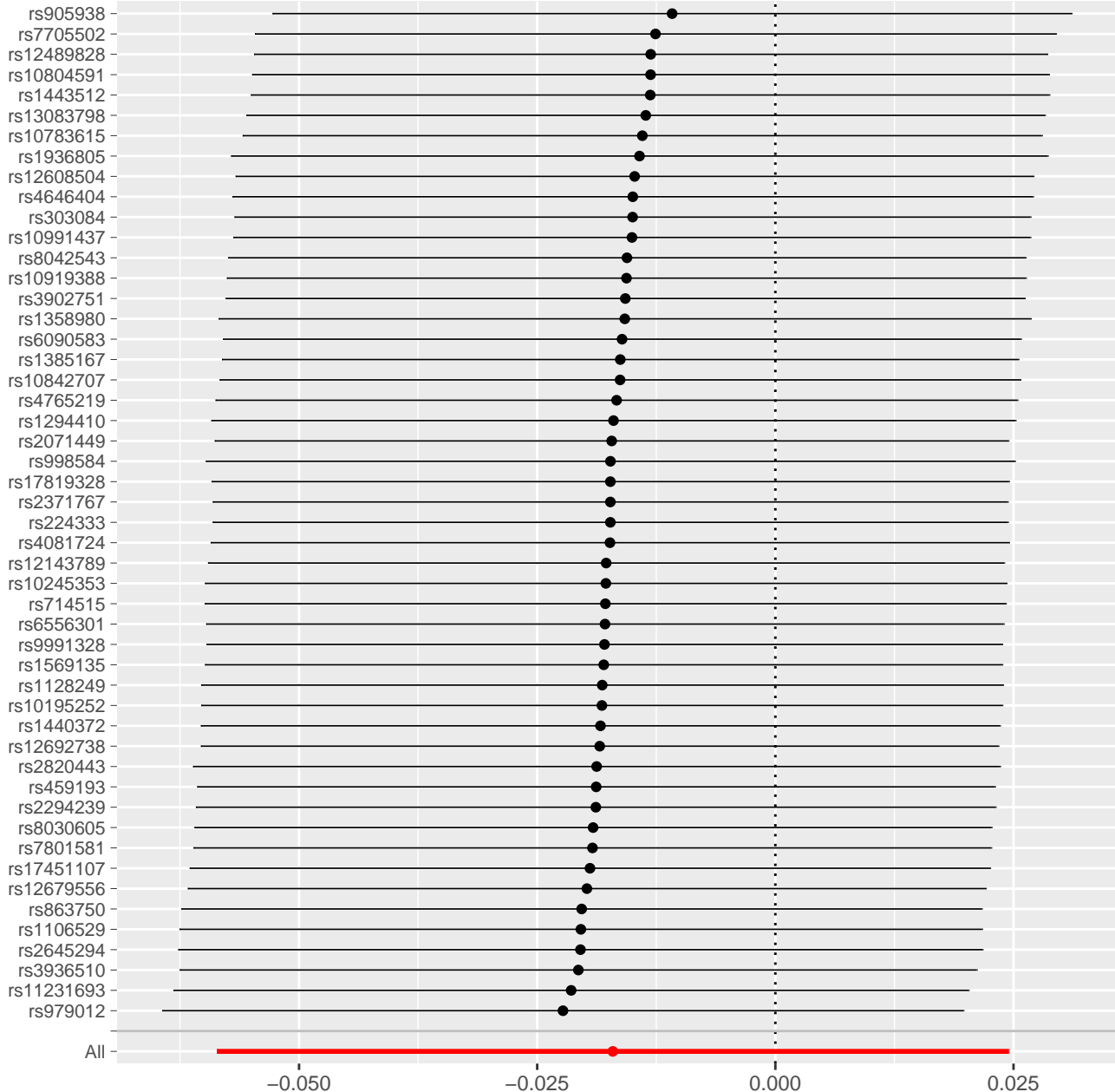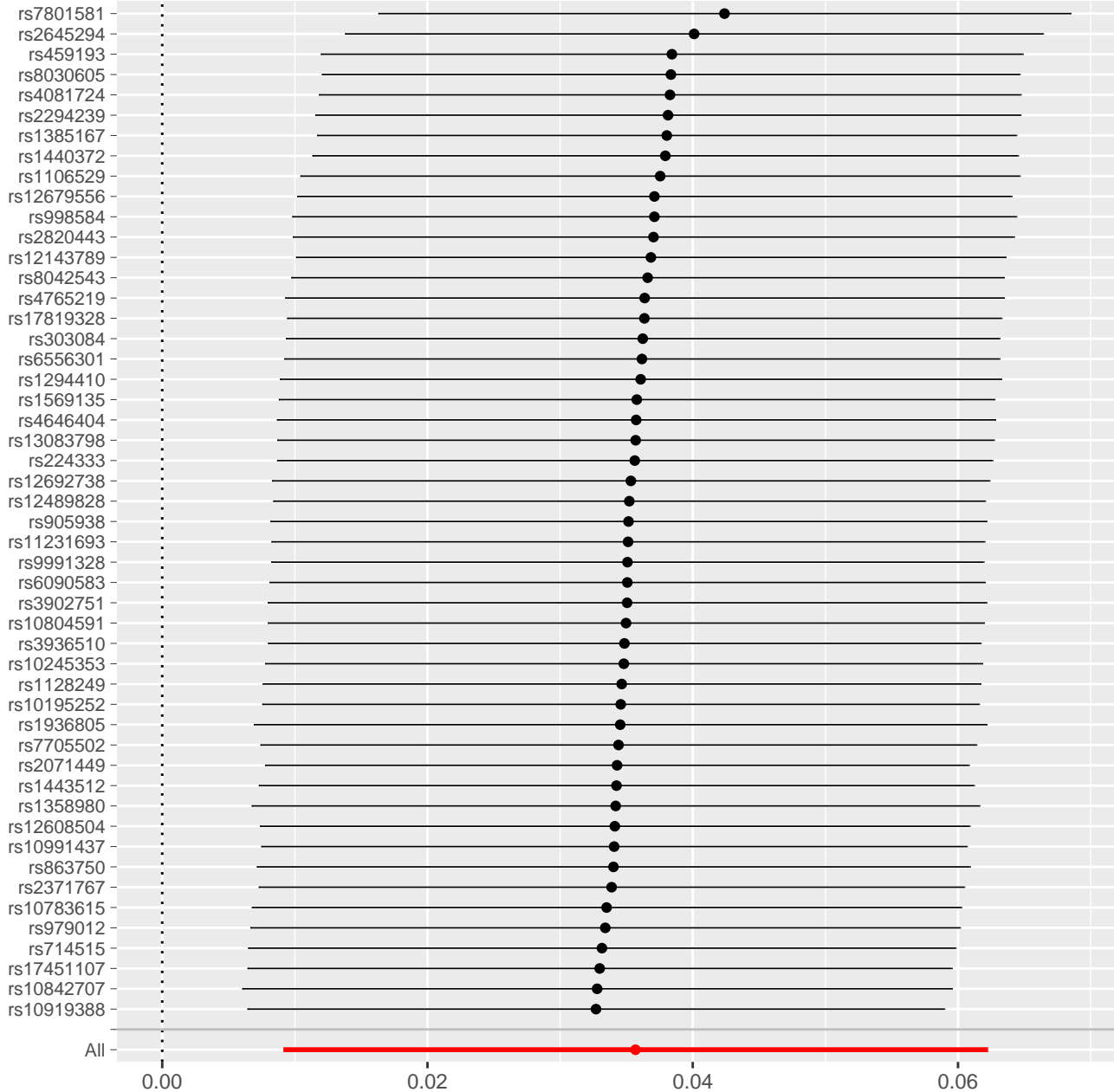'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−aminobutyrate || id:471'
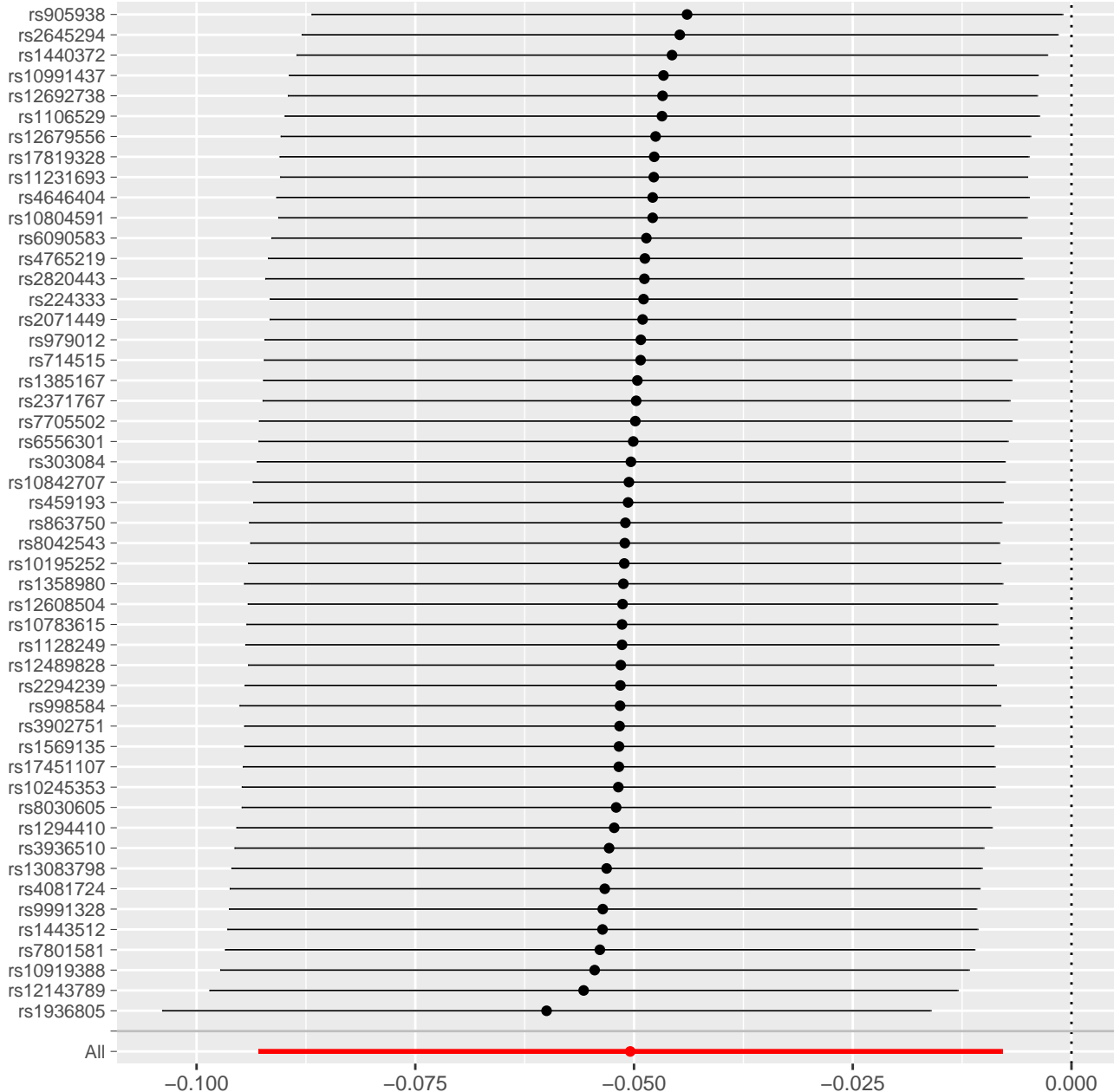
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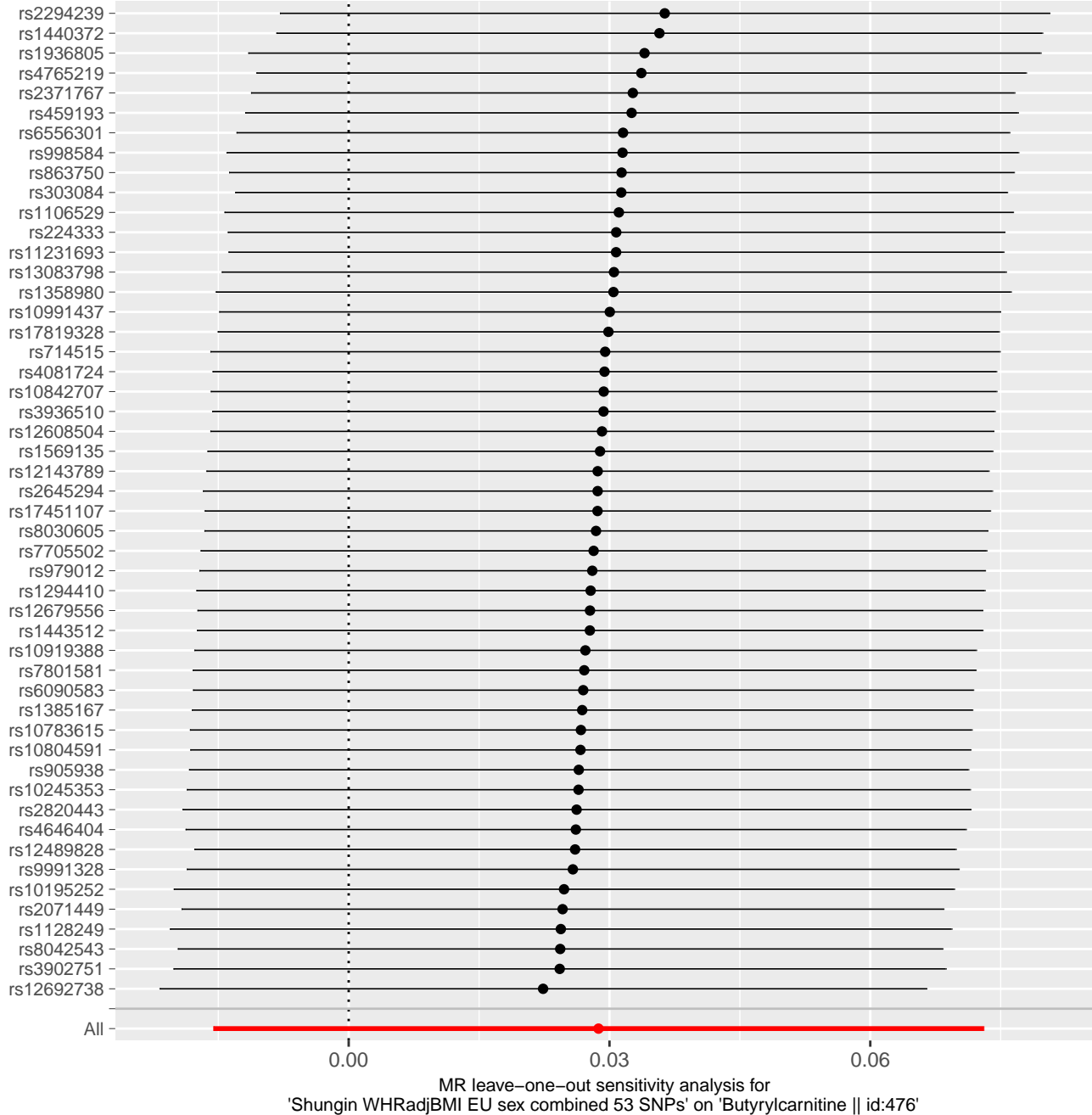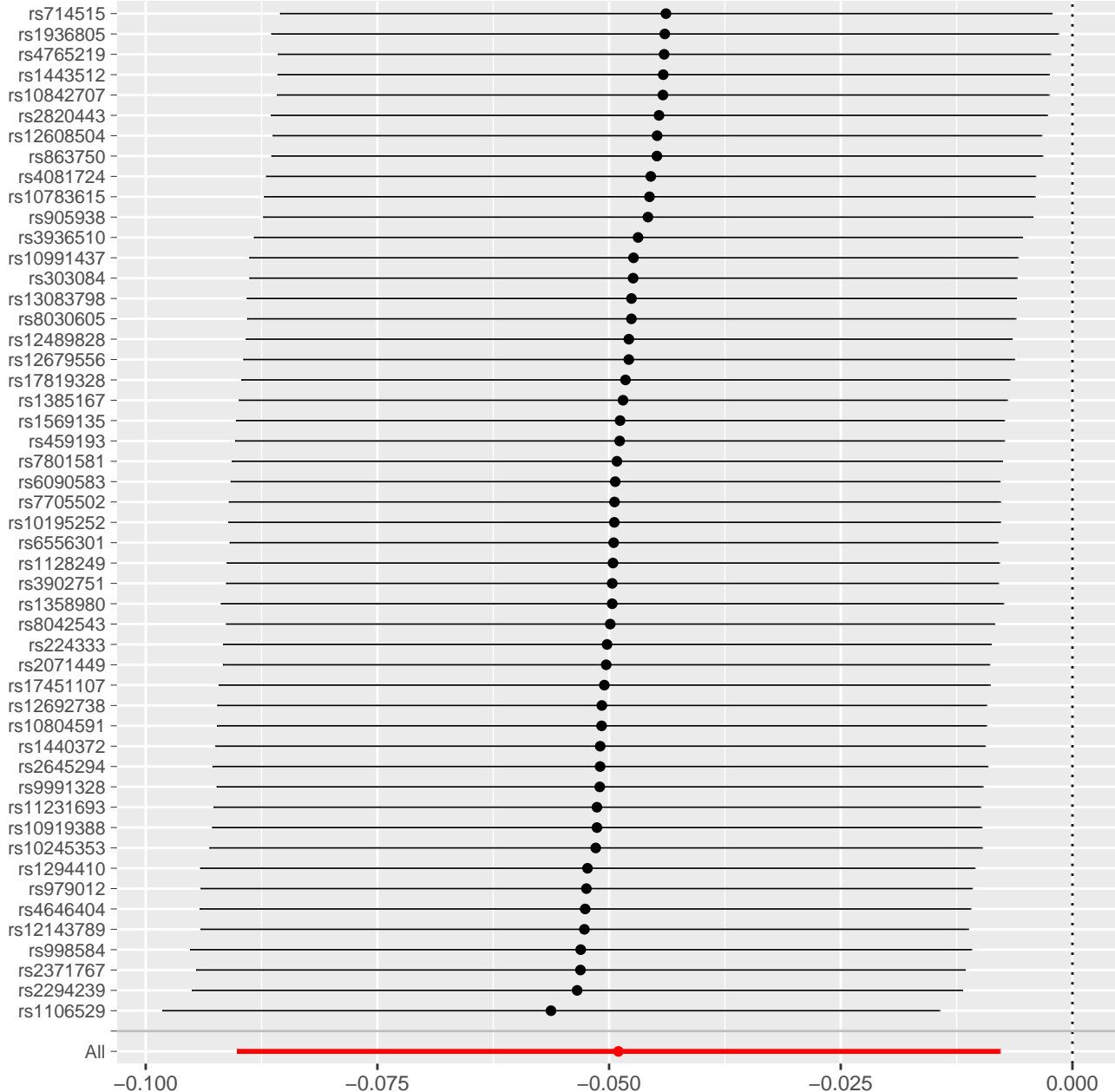
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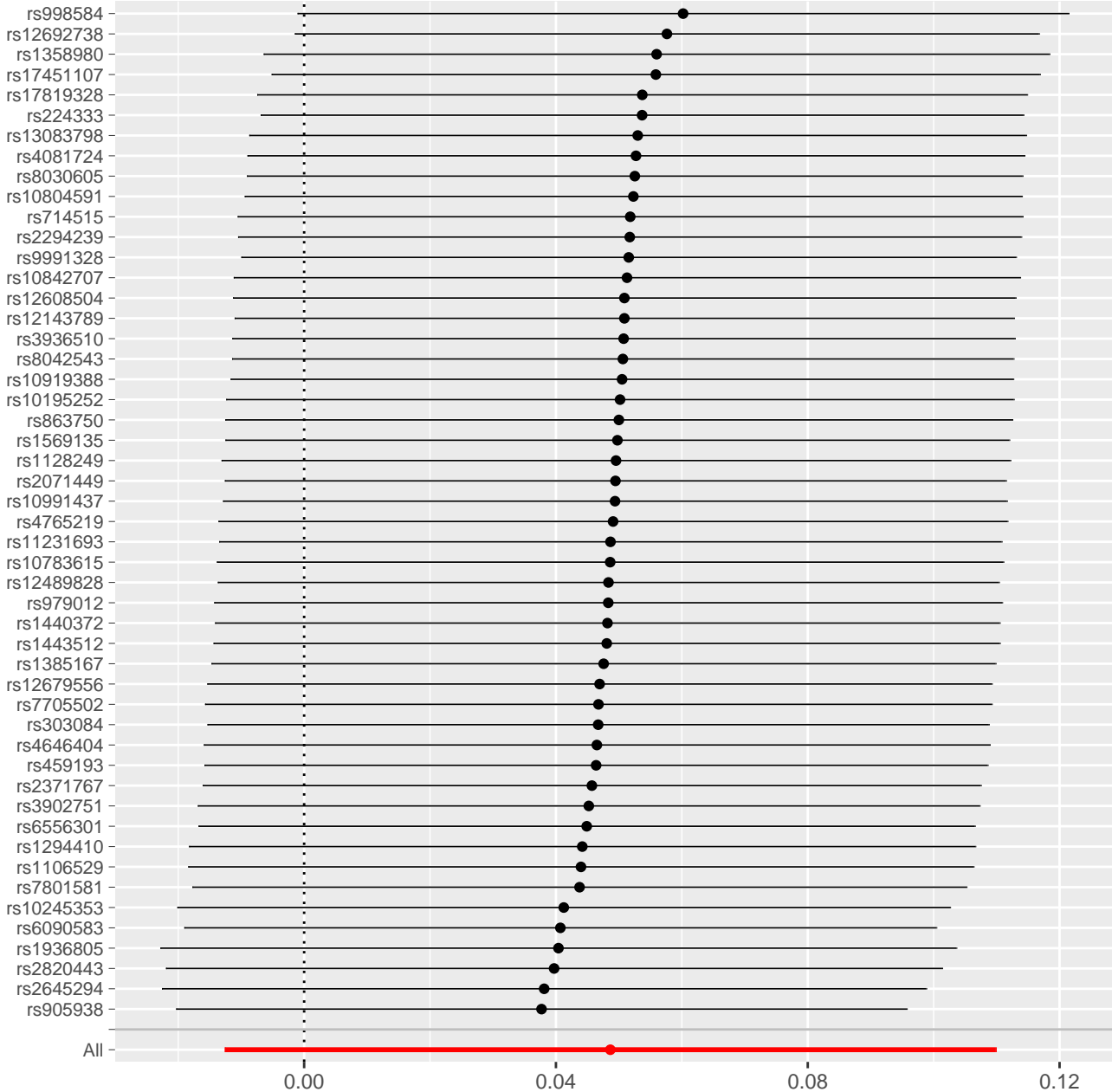'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Dodecanedioate || id:473'

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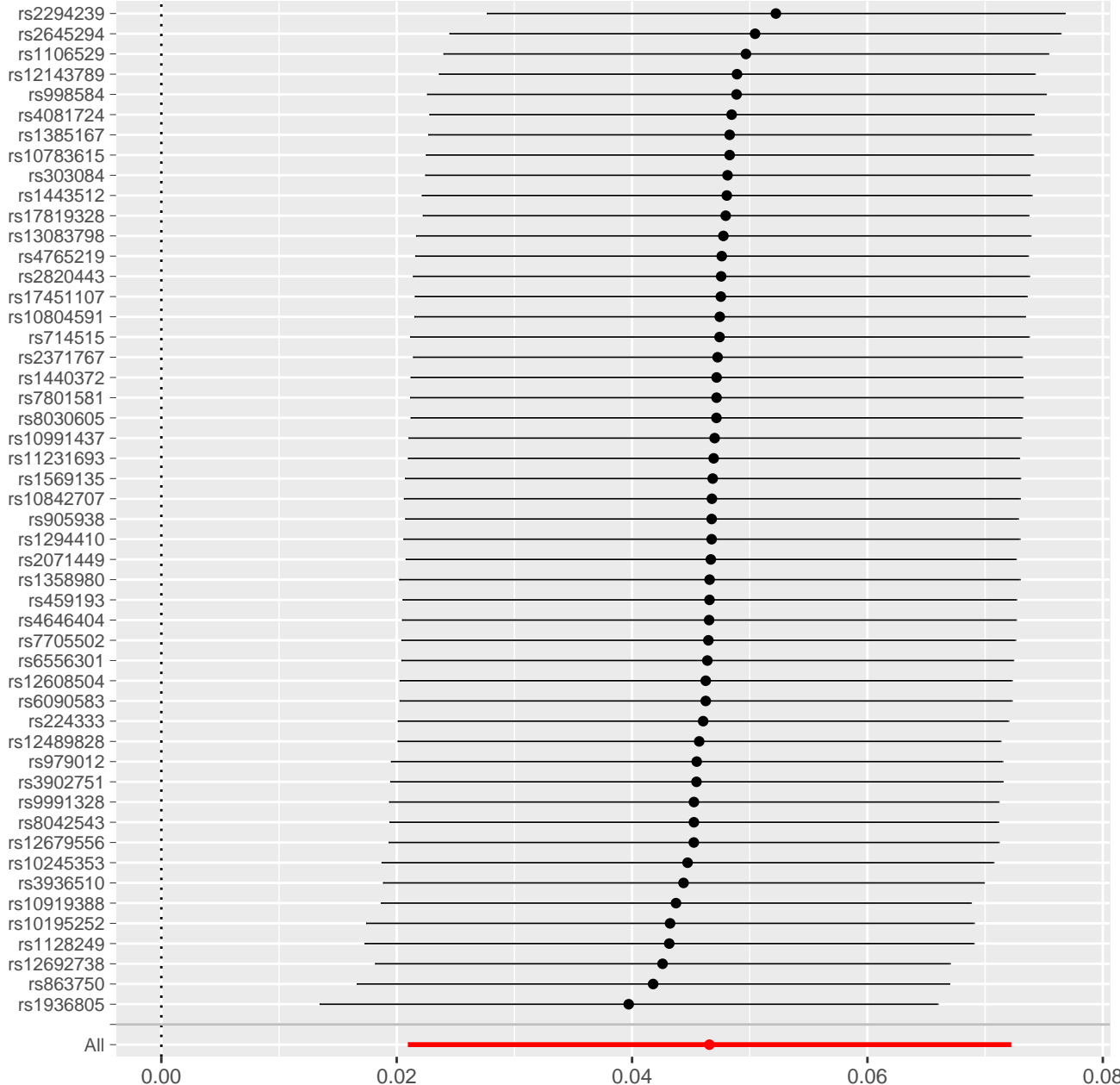'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Gamma−glutamylvaline || id:474'
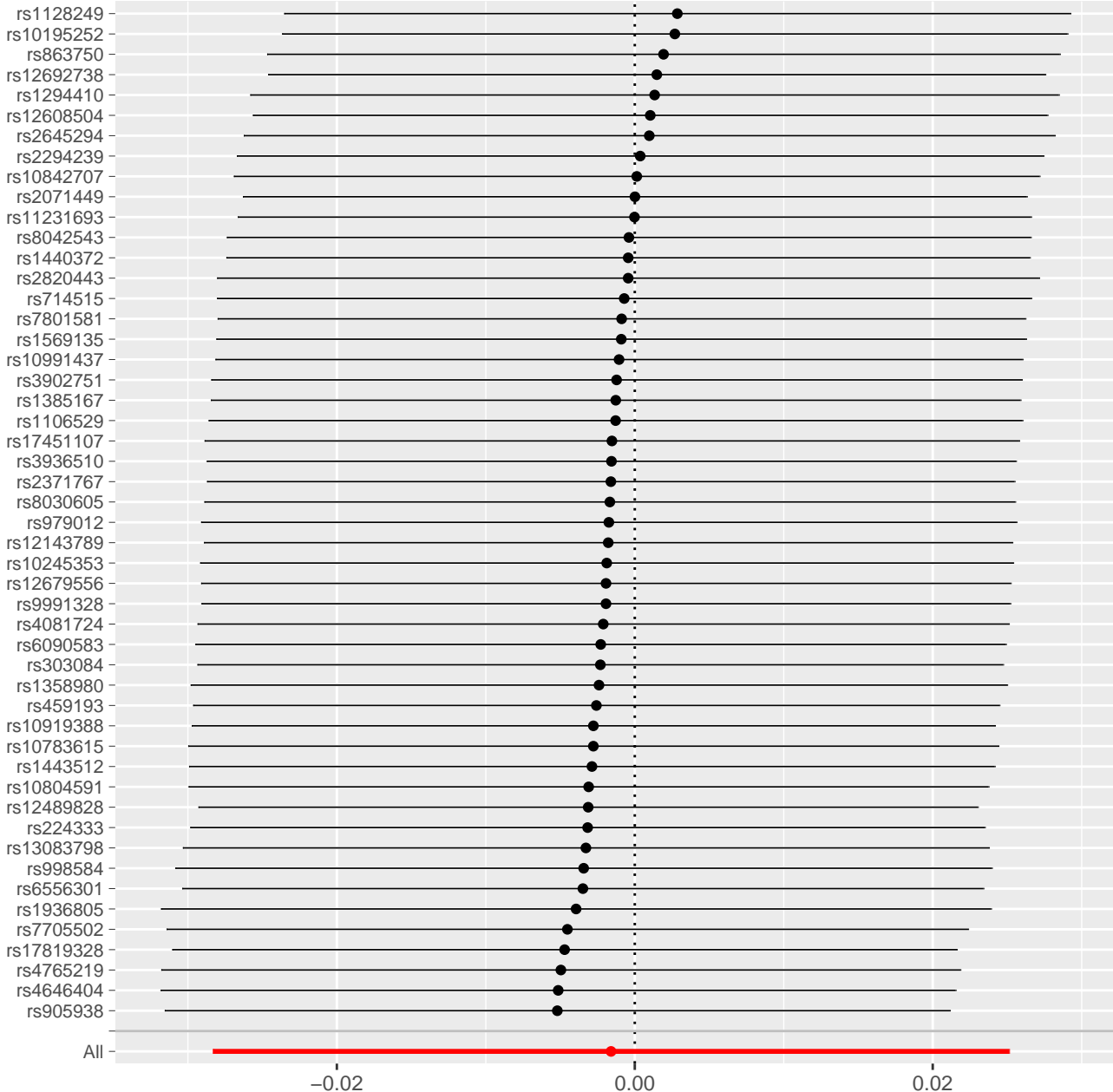
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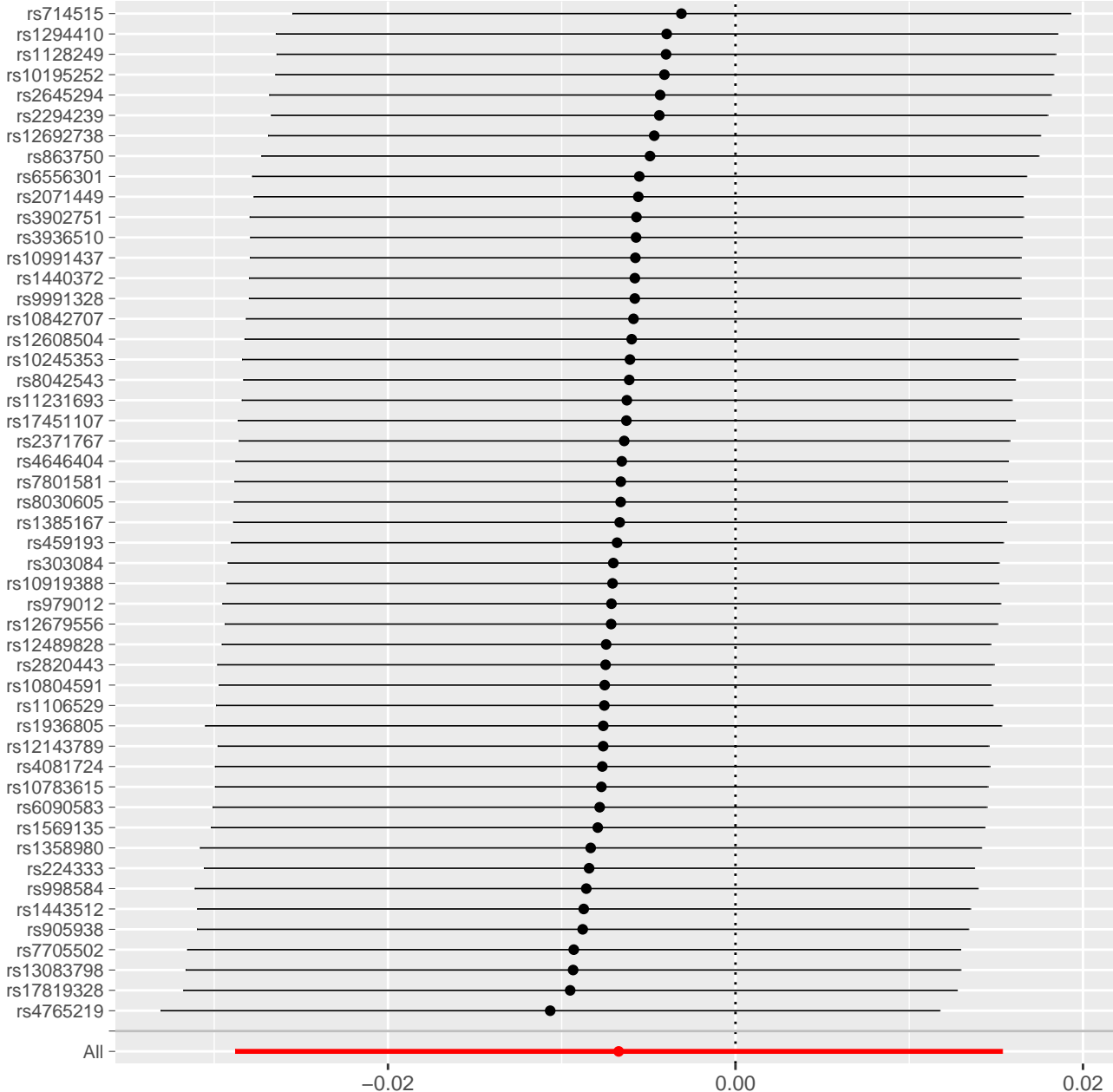'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Myristoleate (14:1n5) || id:477'

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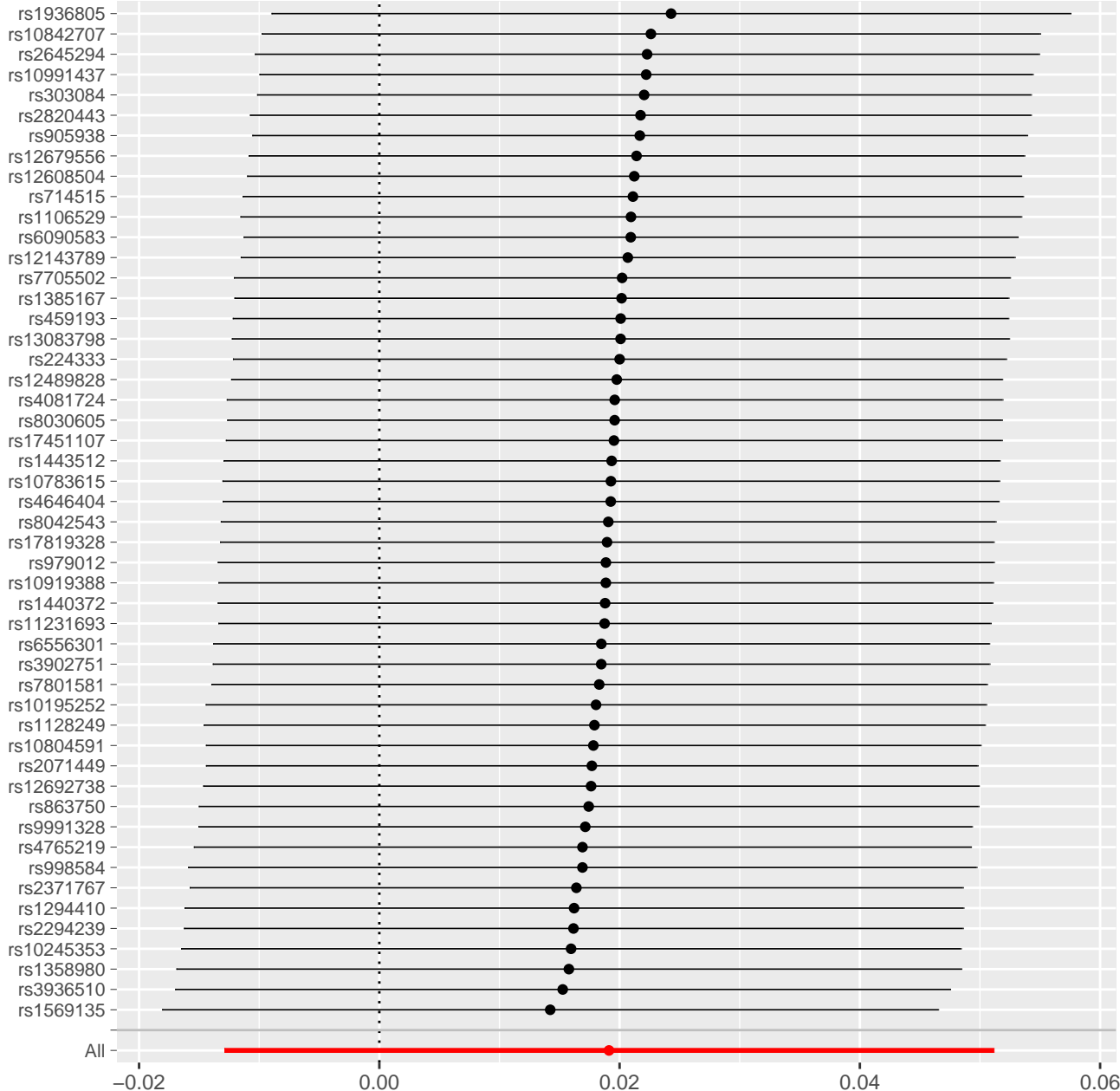'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Dehydroisoandrosterone sulfate (DHEA−S) || id:478'

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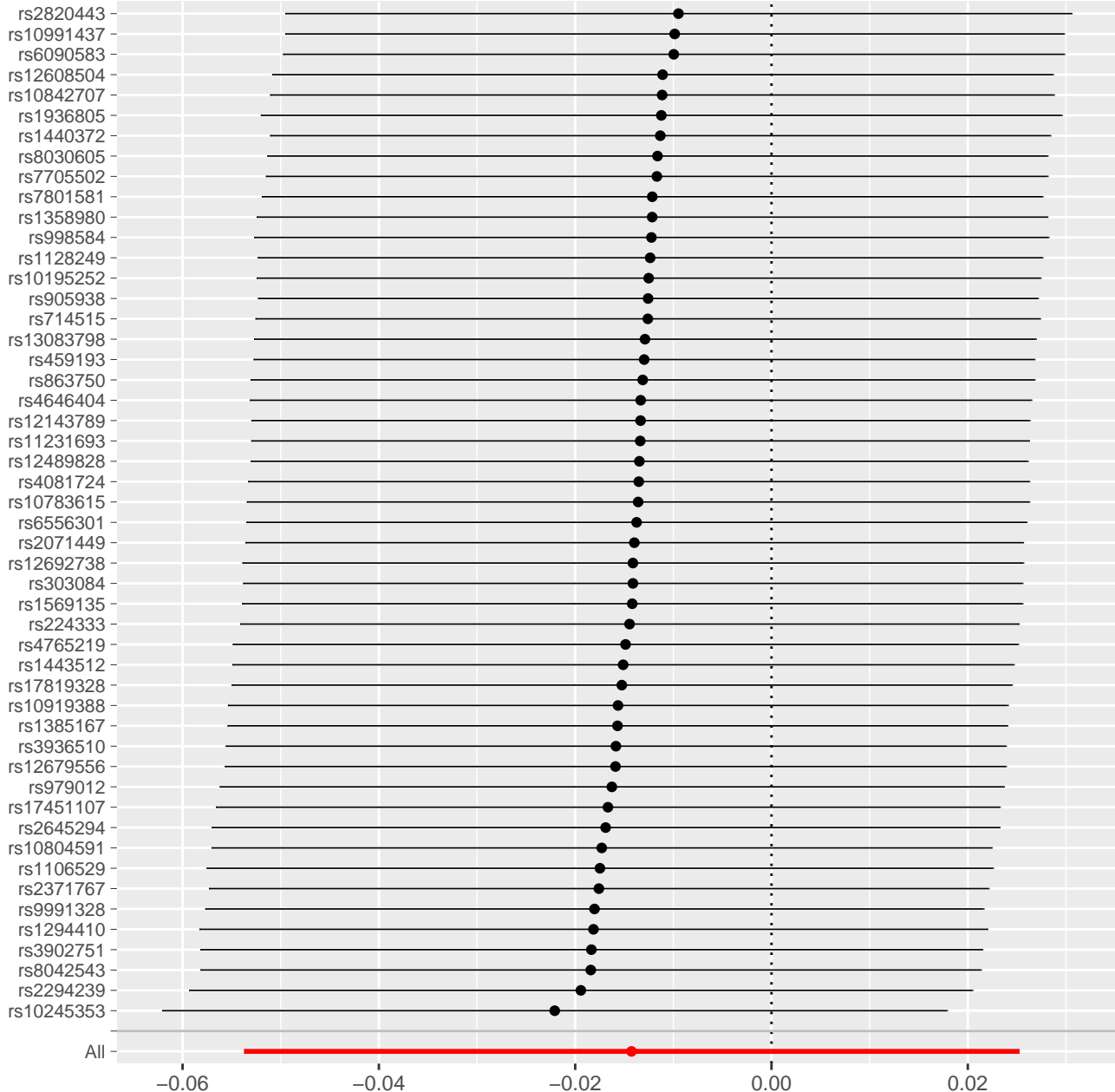
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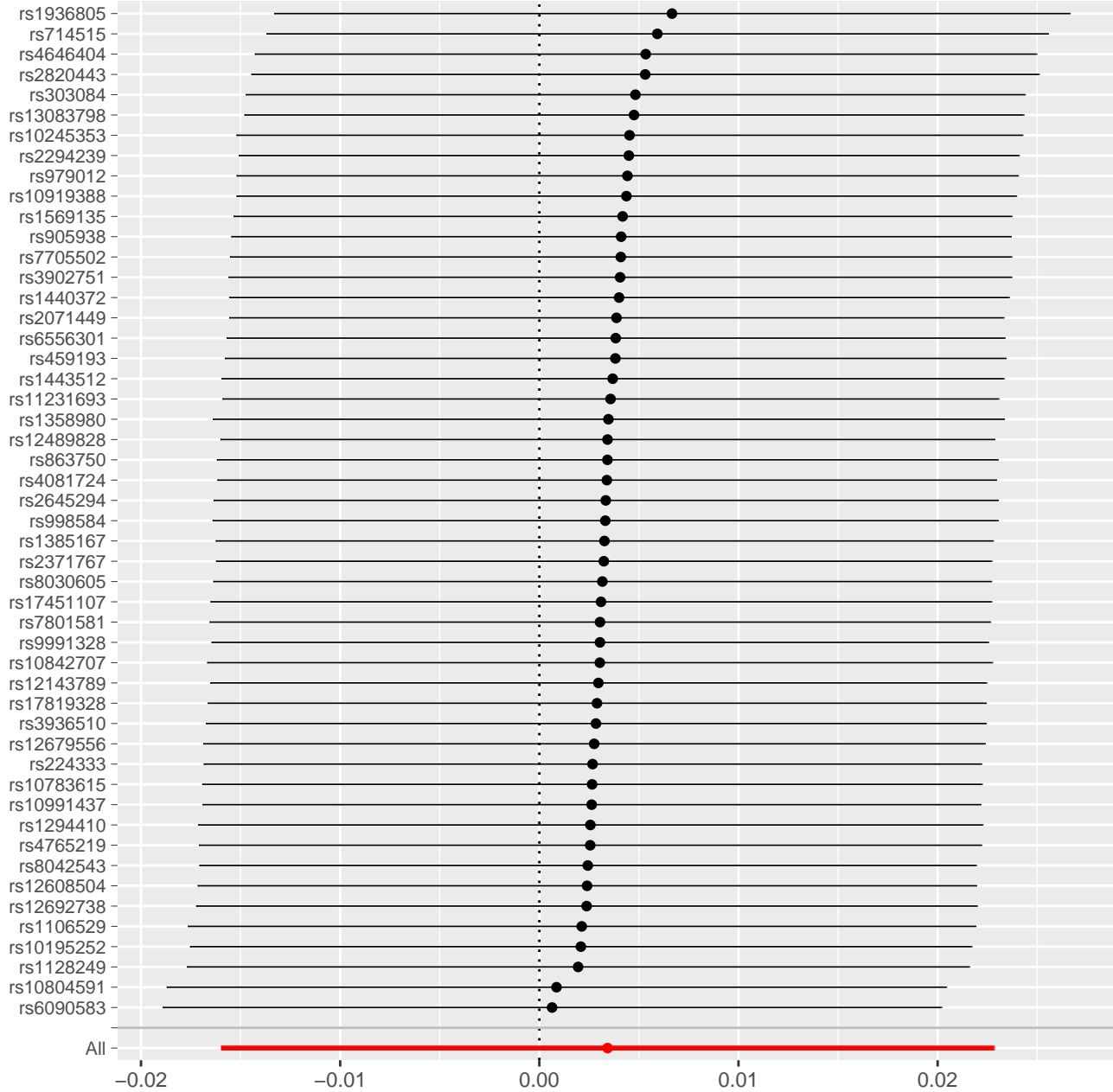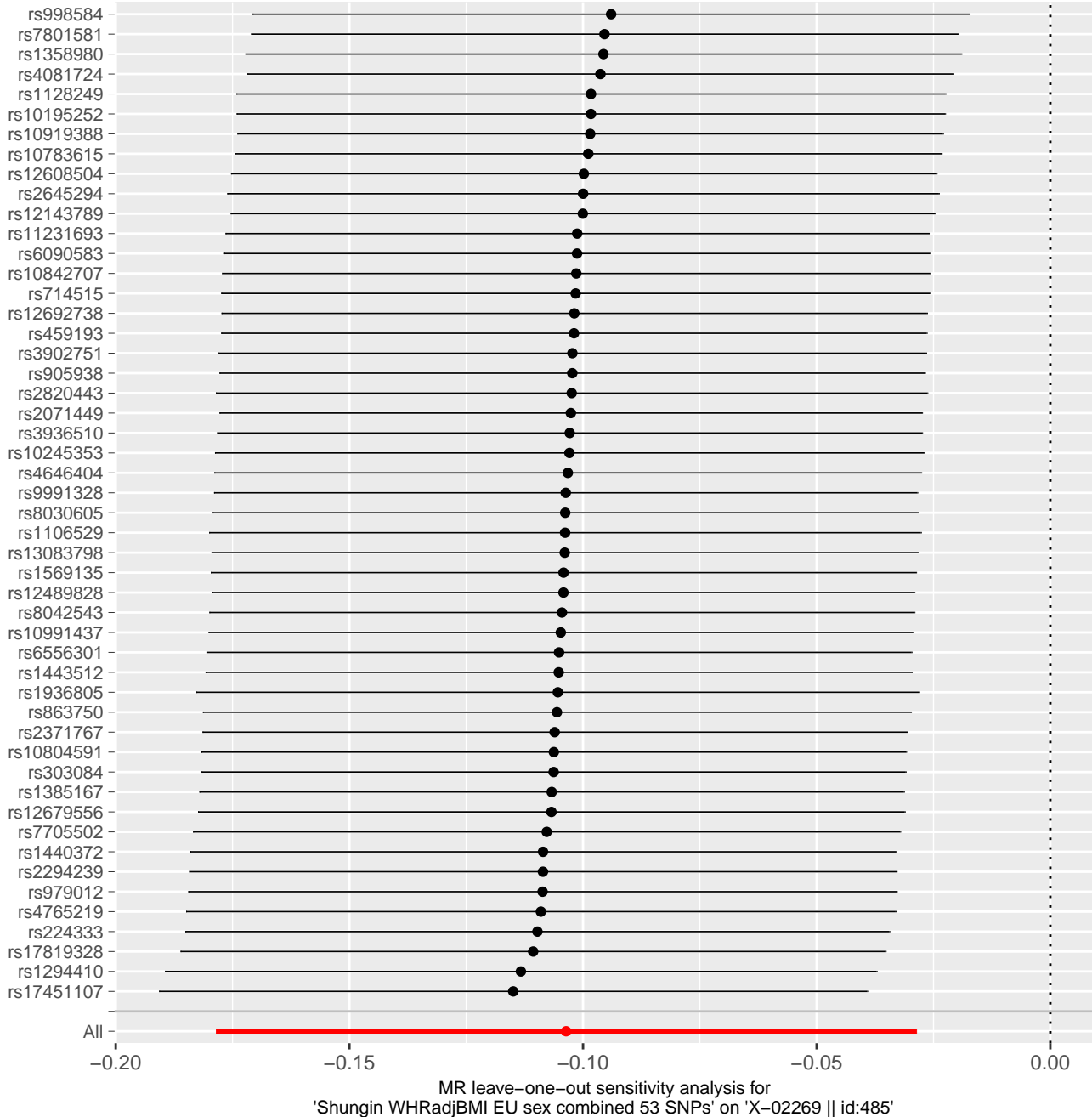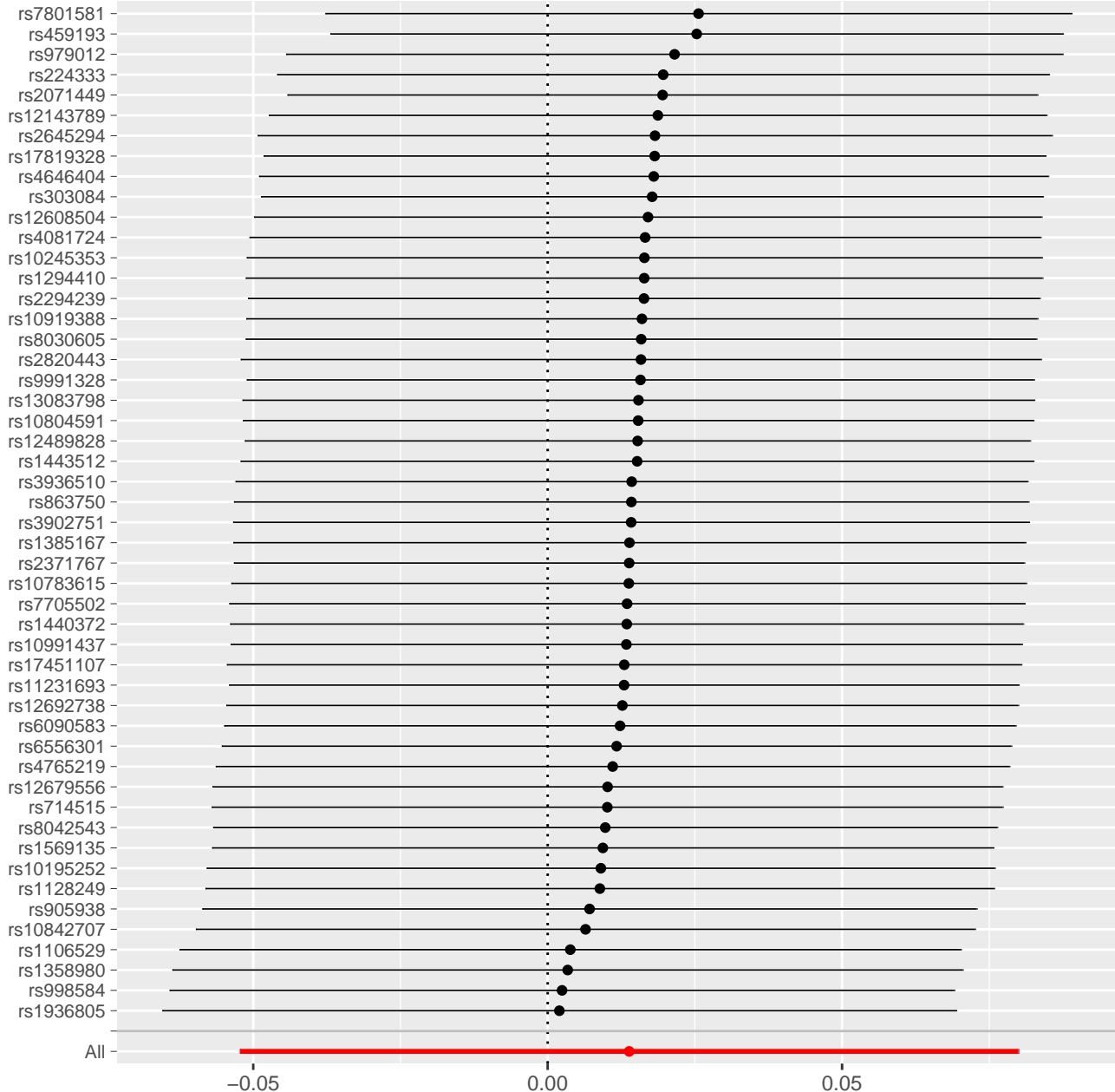
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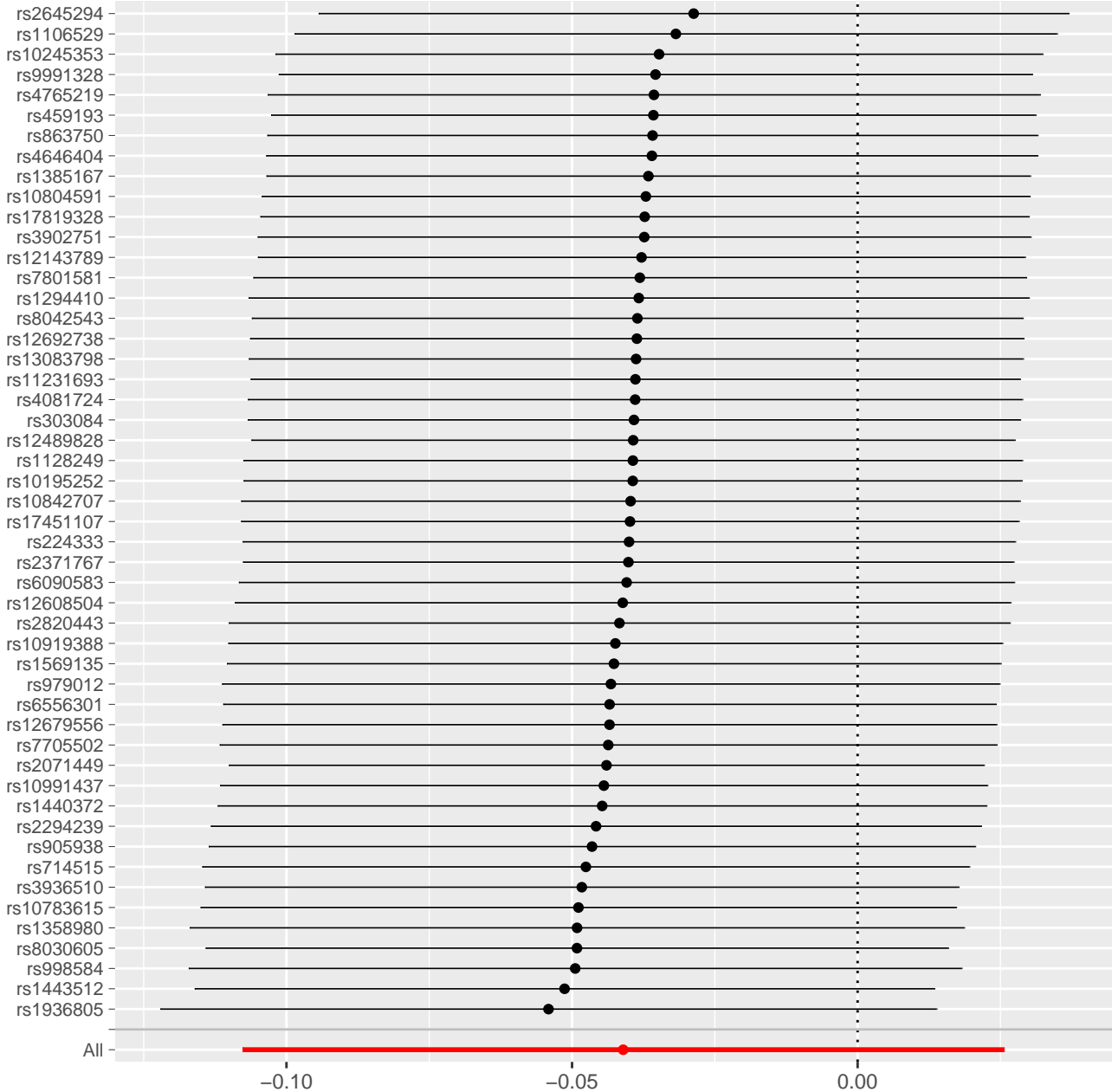'Shungin WHRadjBMI EU sex combined 53 SNPs' on '10−undecenoate (11:1n1) || id:482'

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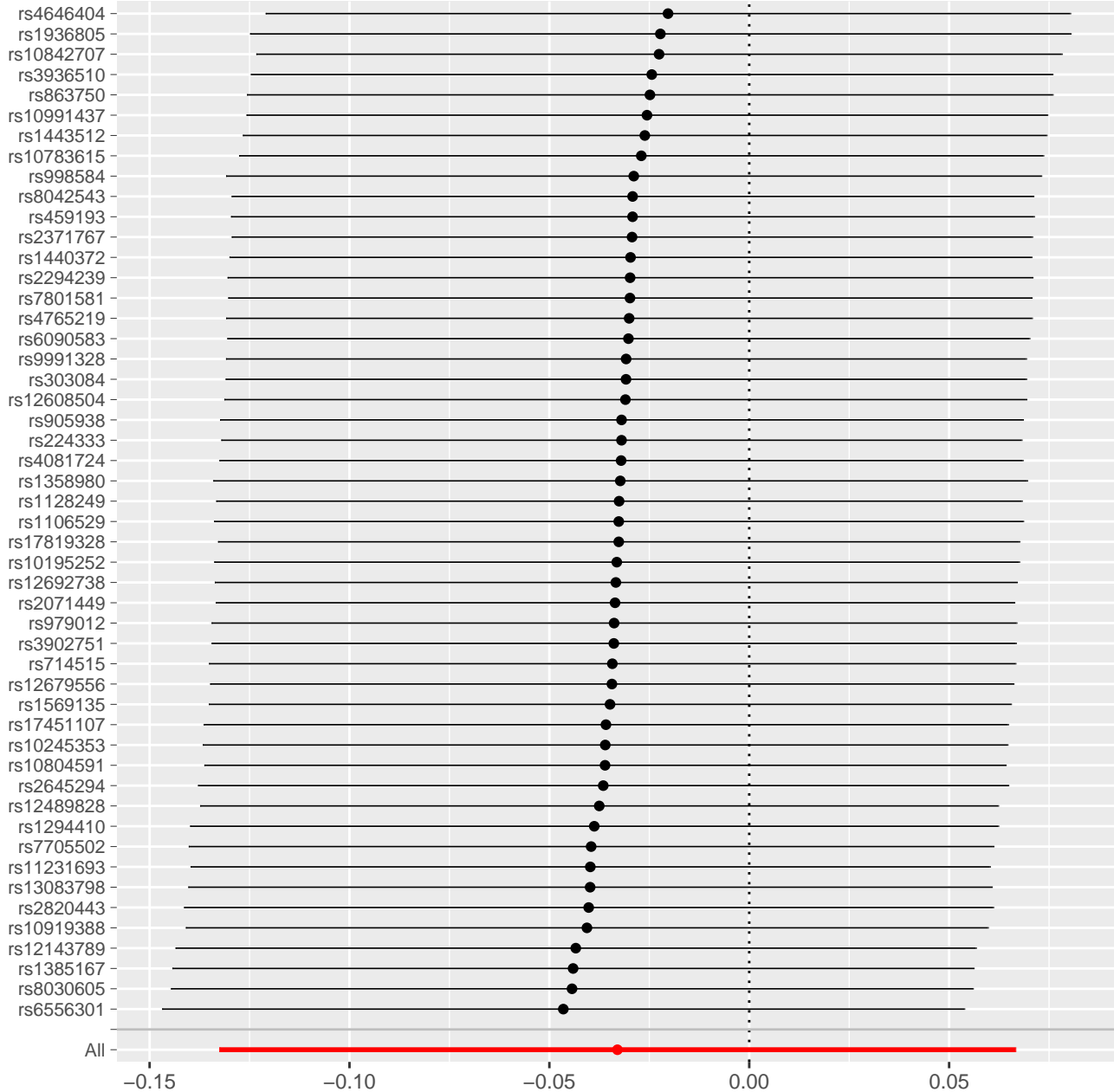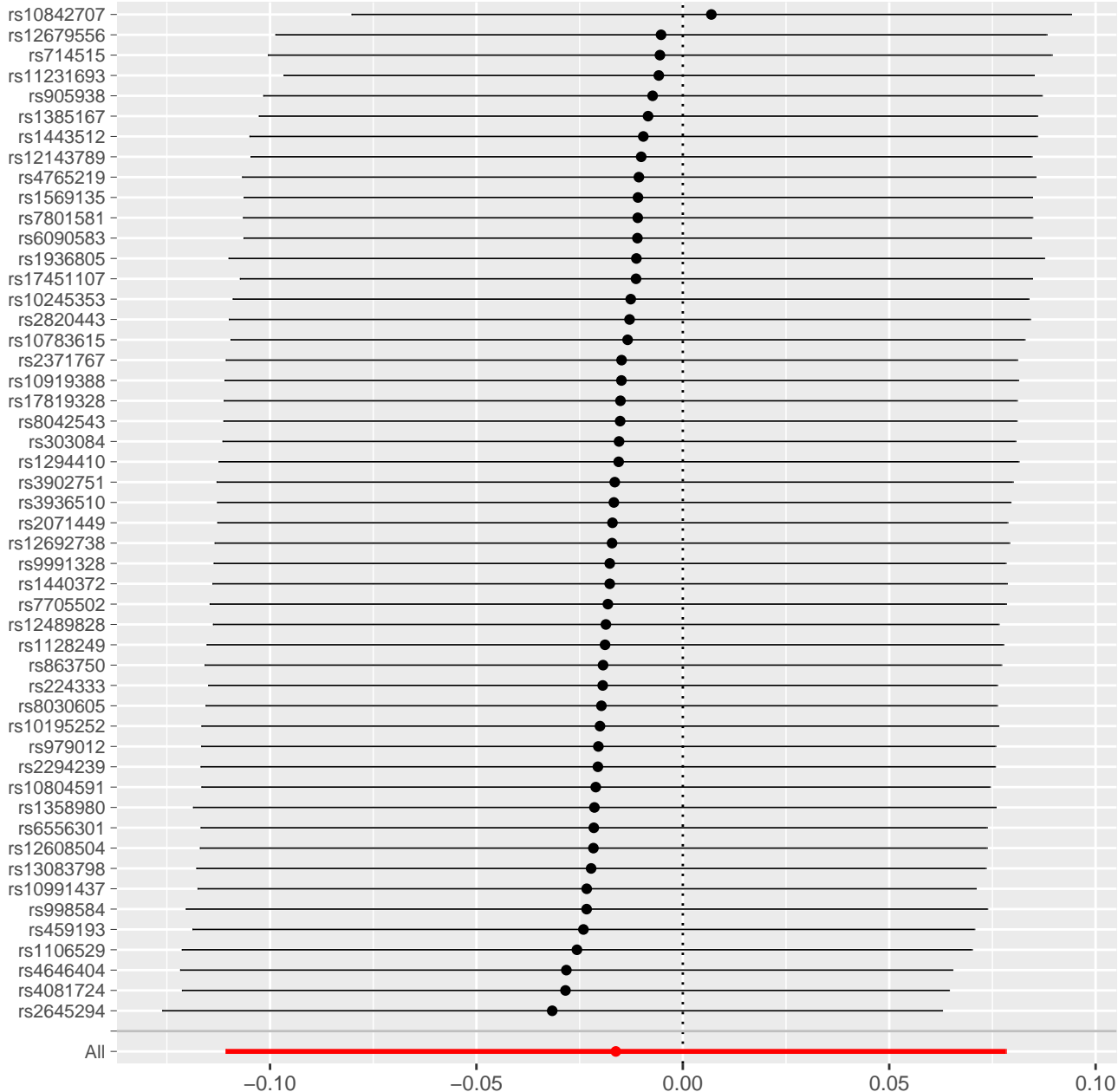'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11204 || id:484'

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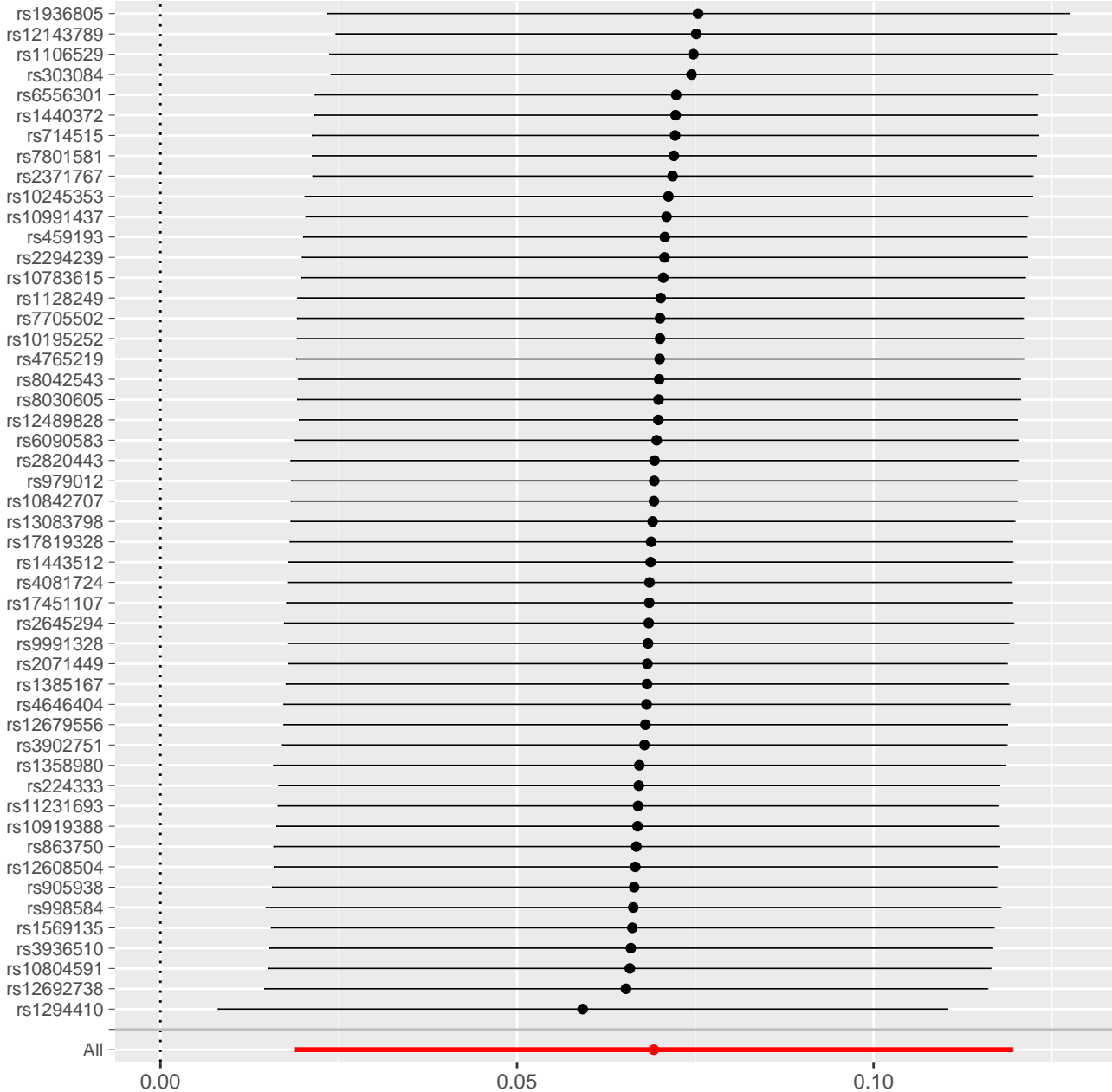'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Phenol sulfate || id:486'
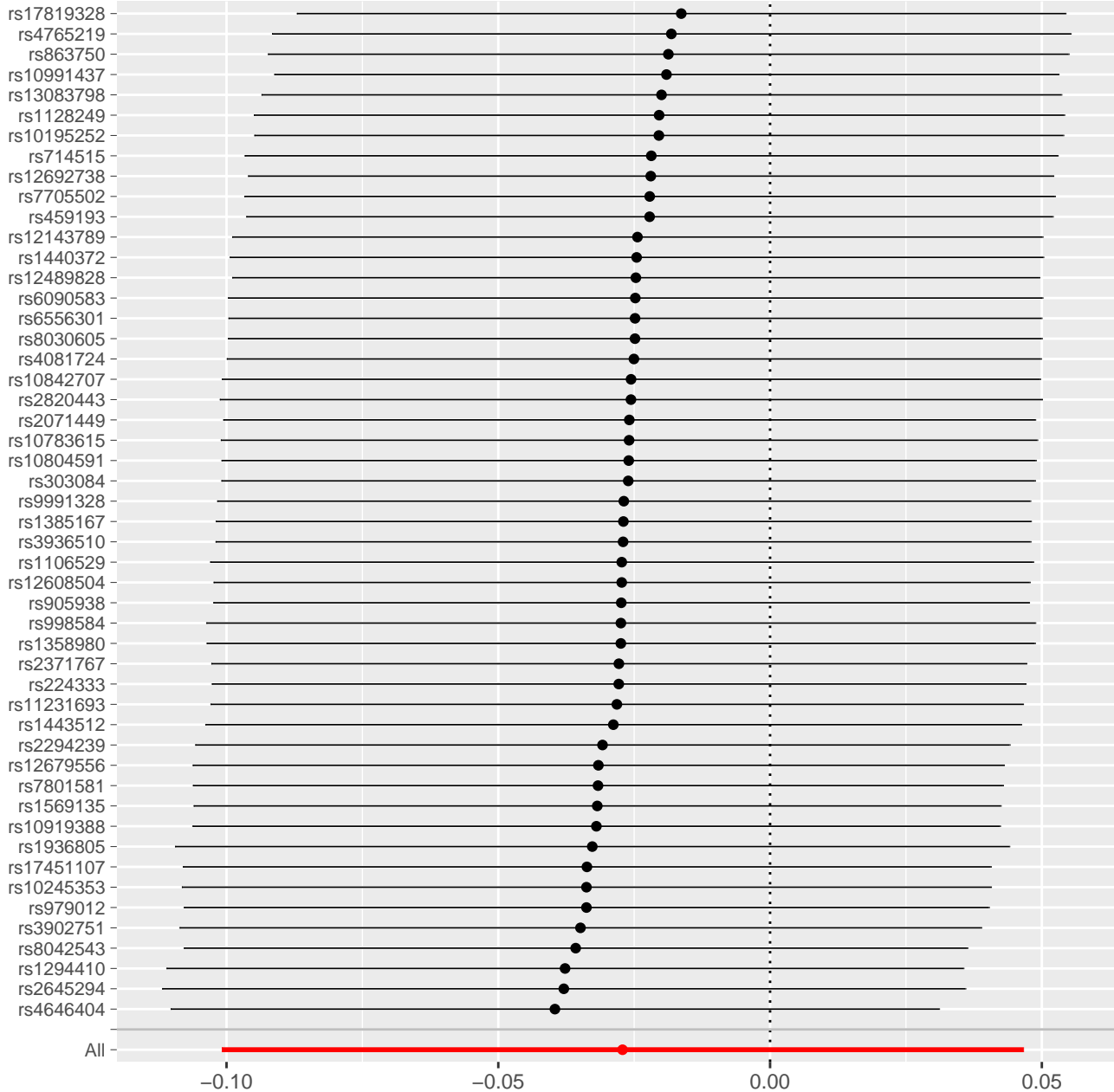
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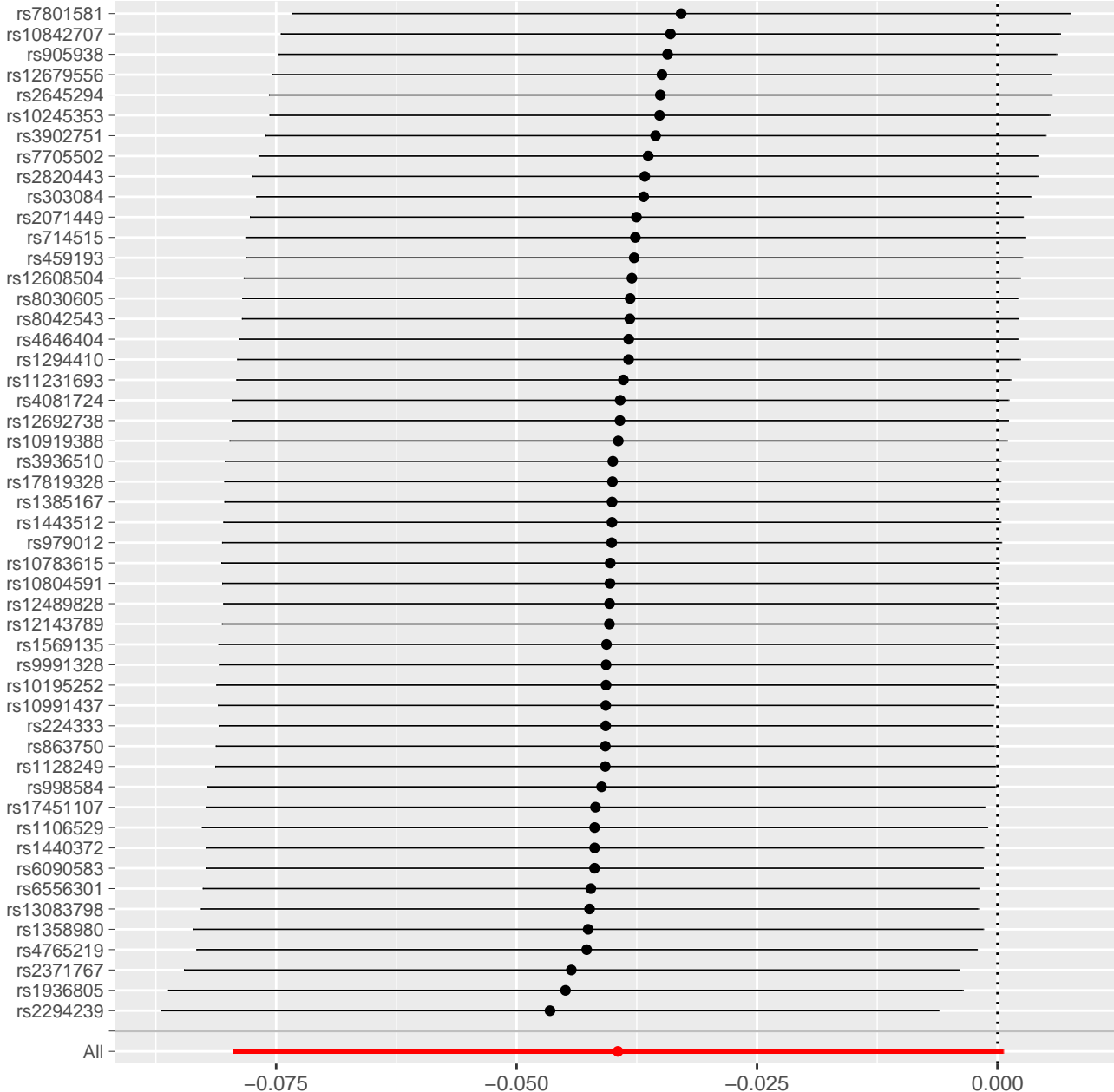'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−07765 || id:488'

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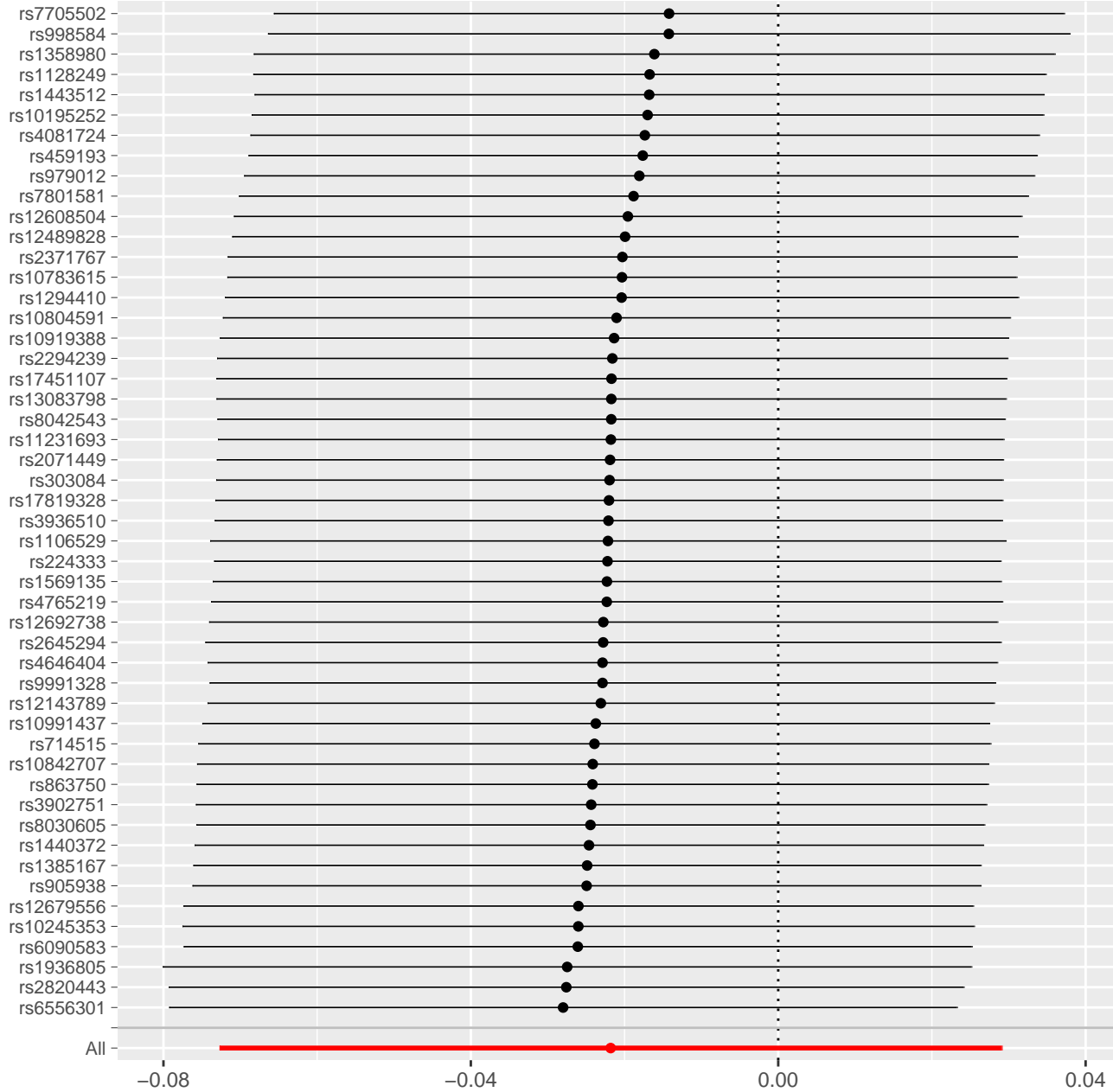'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11247 || id:489'

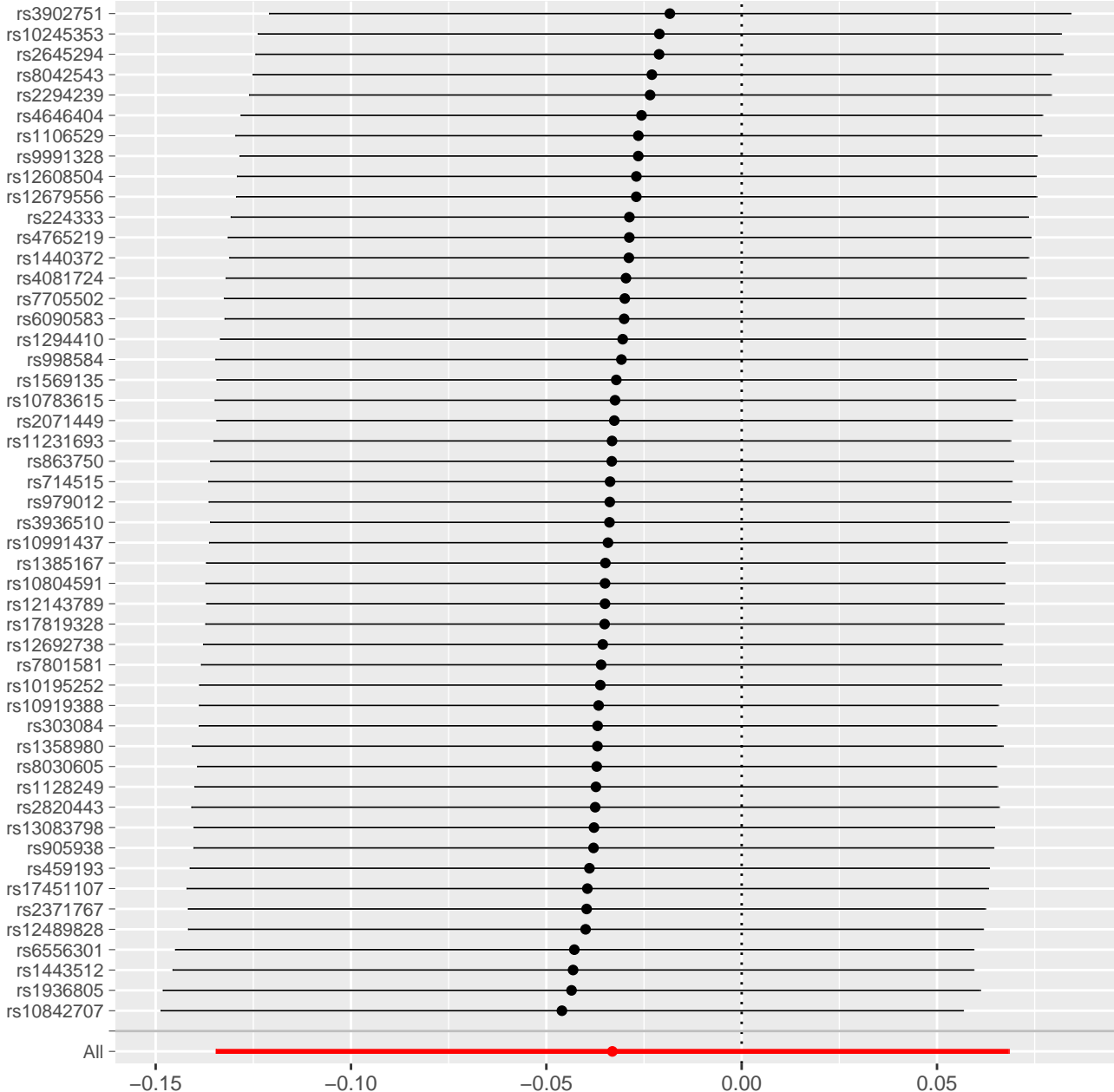MR leave−out sensitivity analysis for
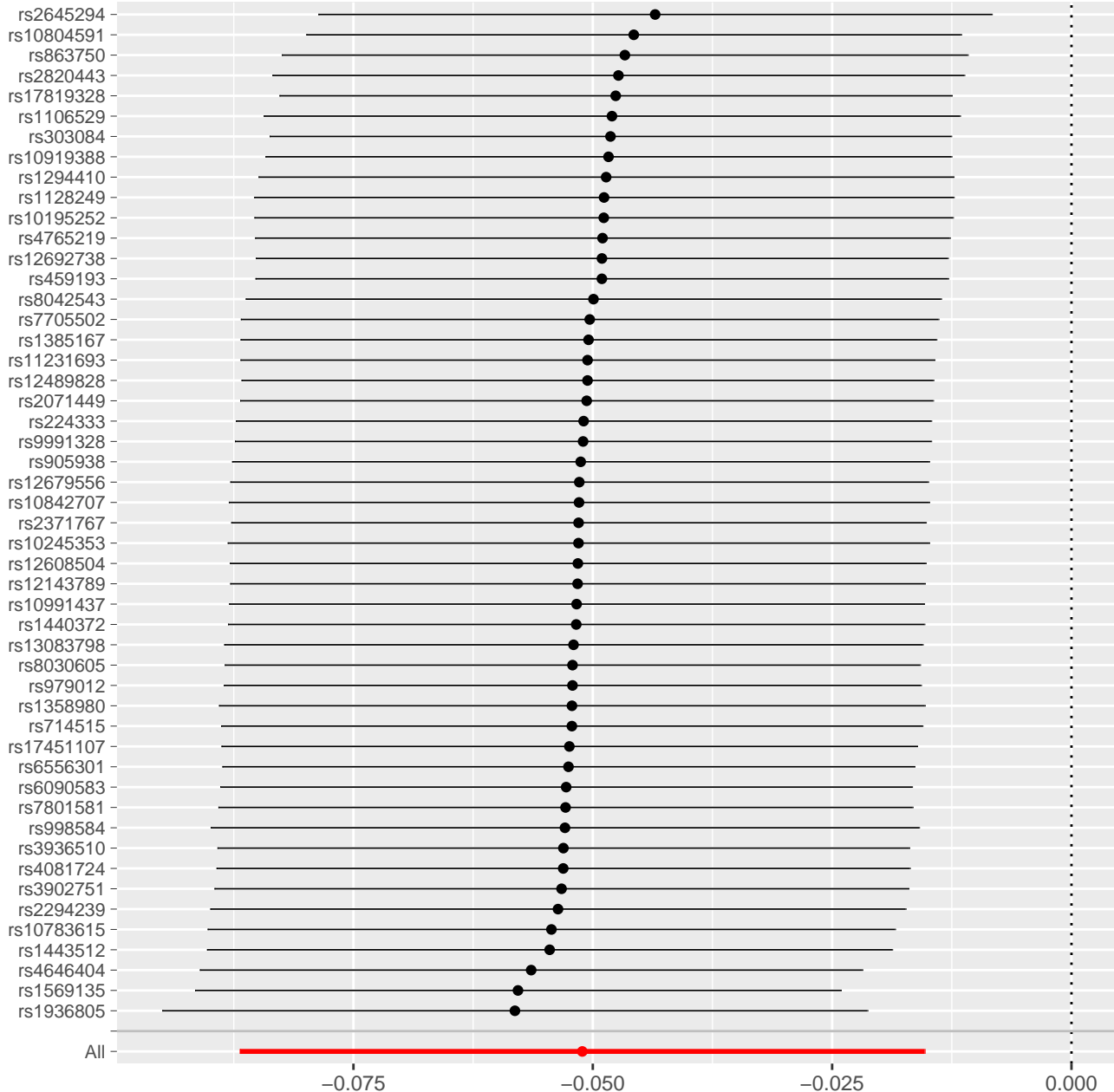'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11261 || id:490'

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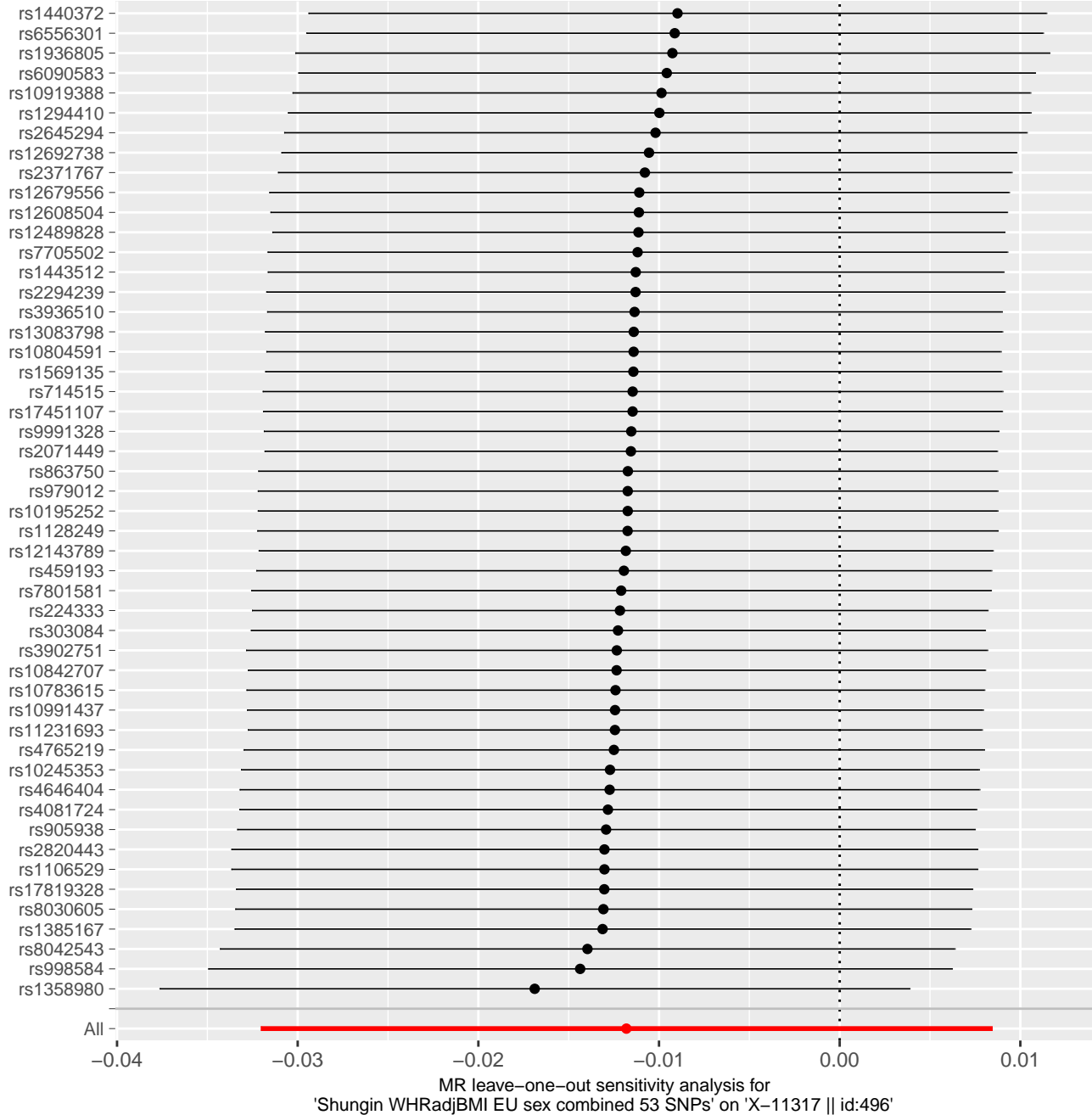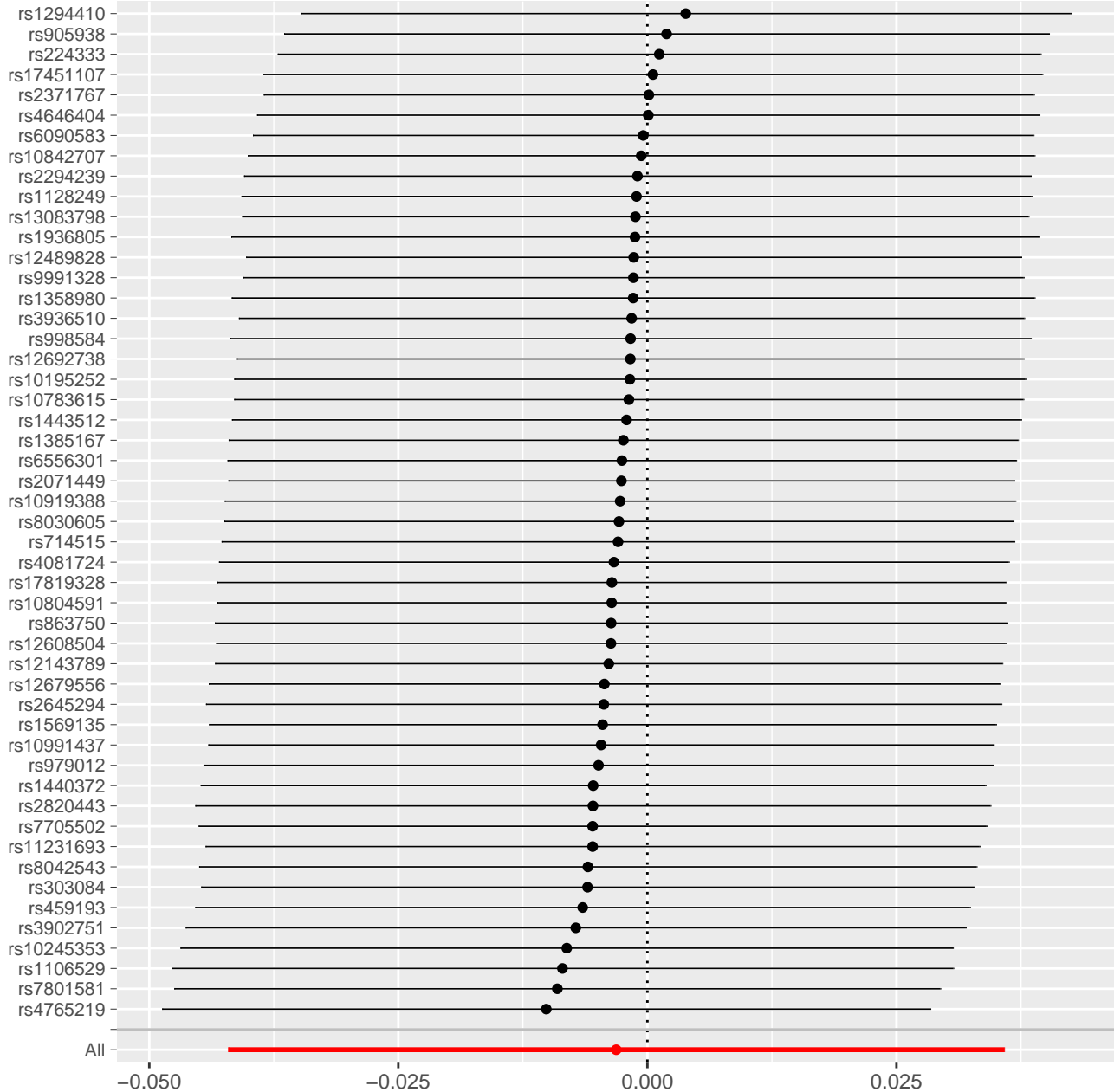'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Bilirubin (E,E)* || id:491'

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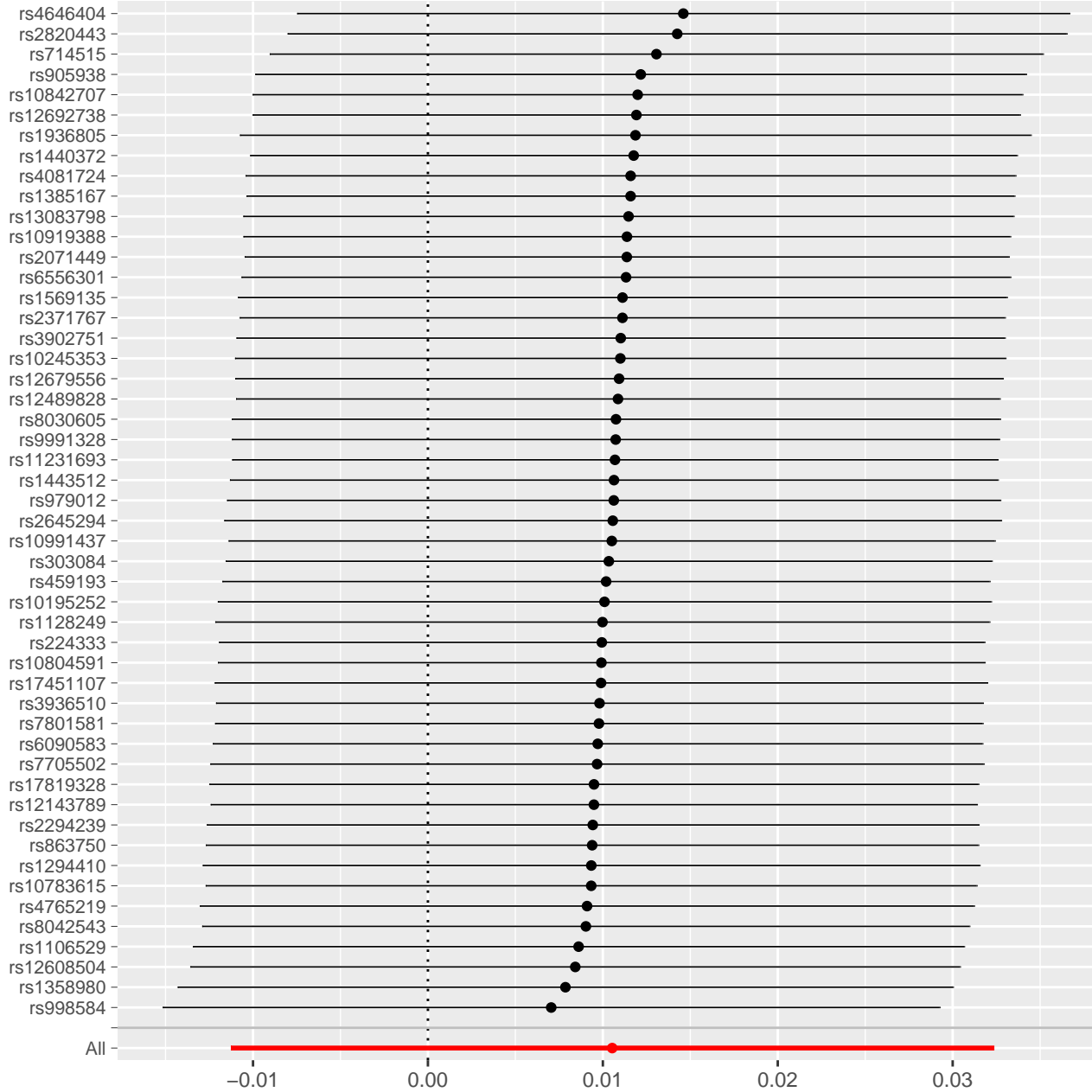'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11299 || id:494'

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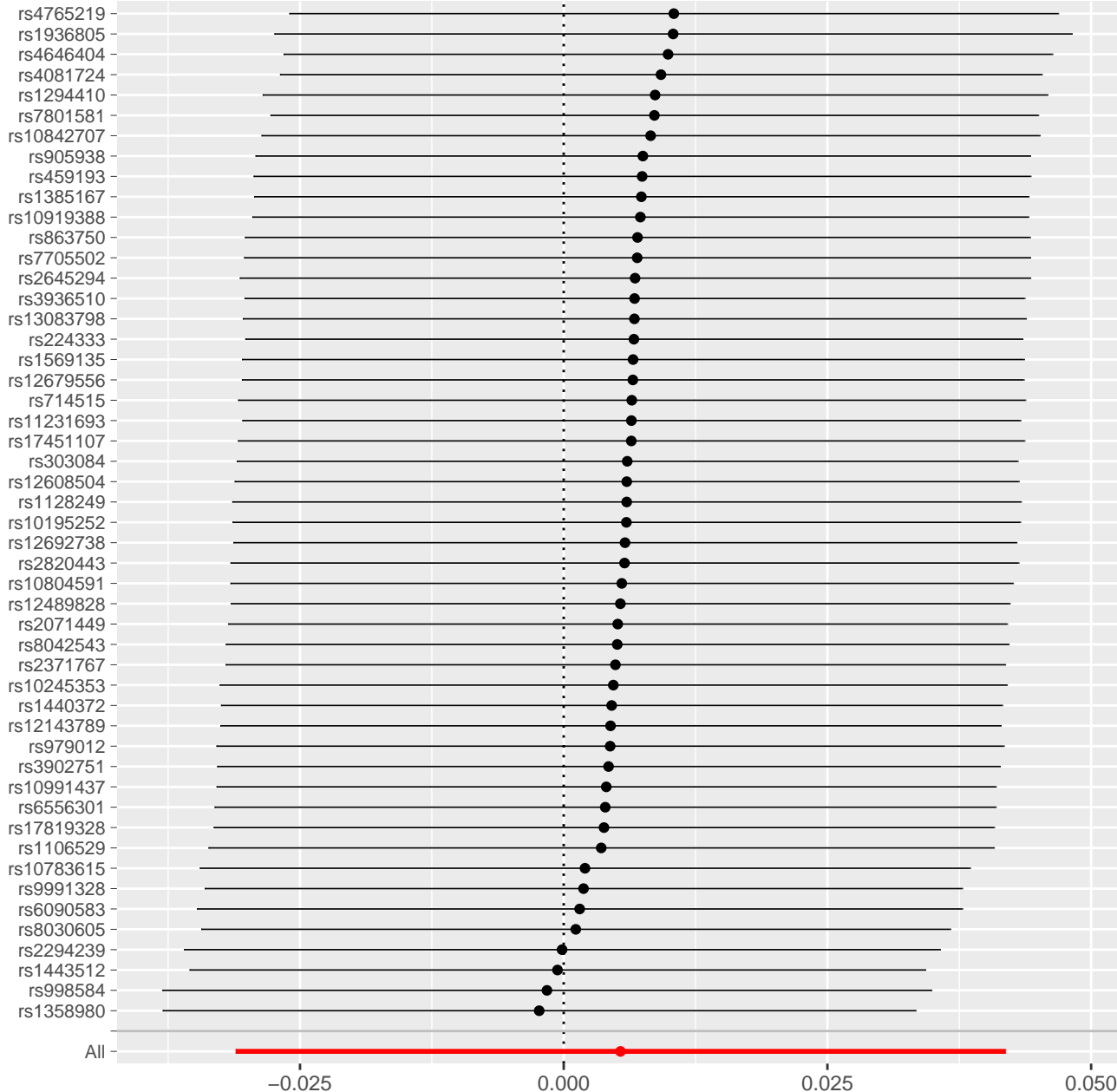'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11317 || id:496'

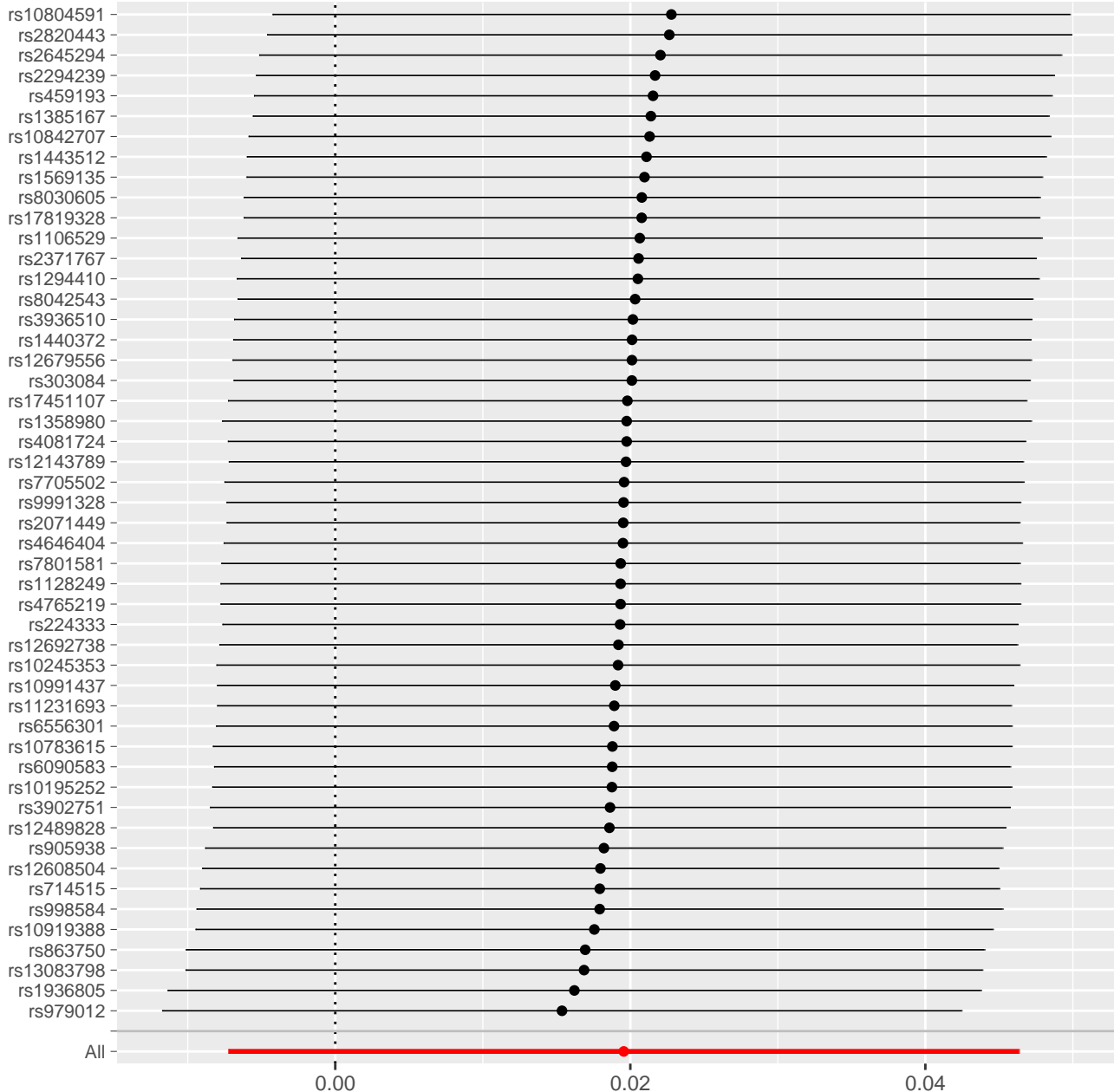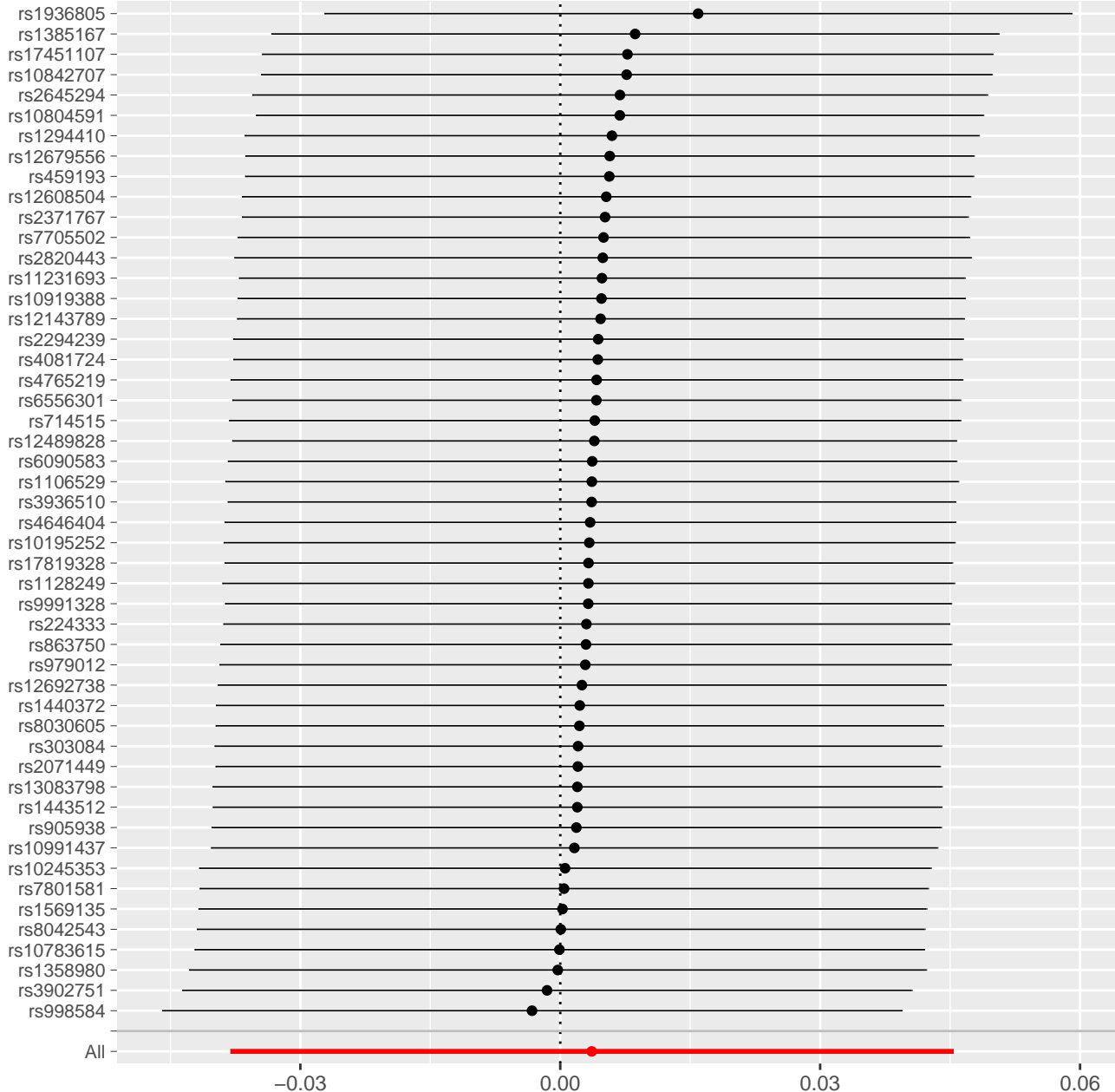MR leave−one−out sensitivity analysis for
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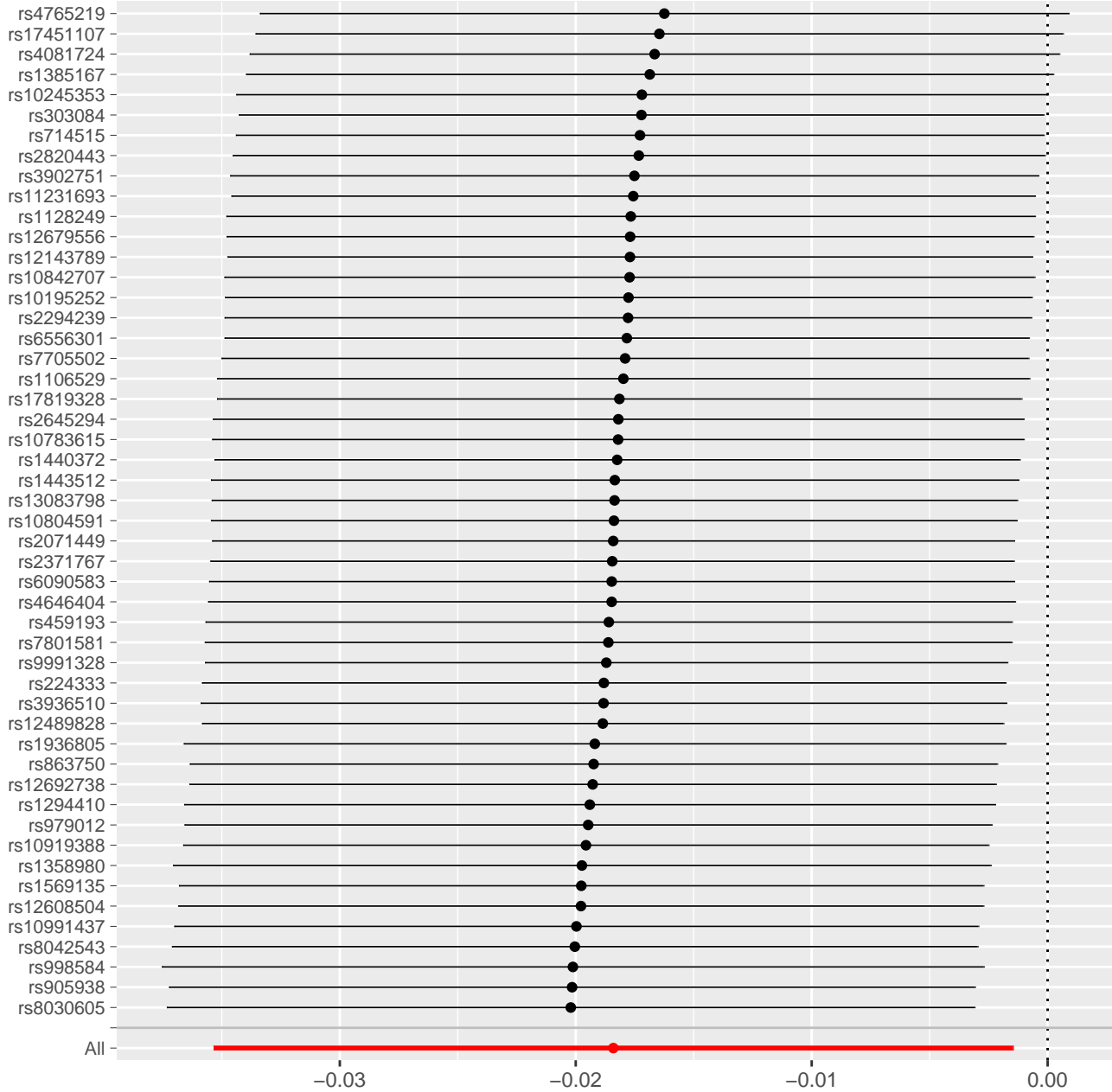
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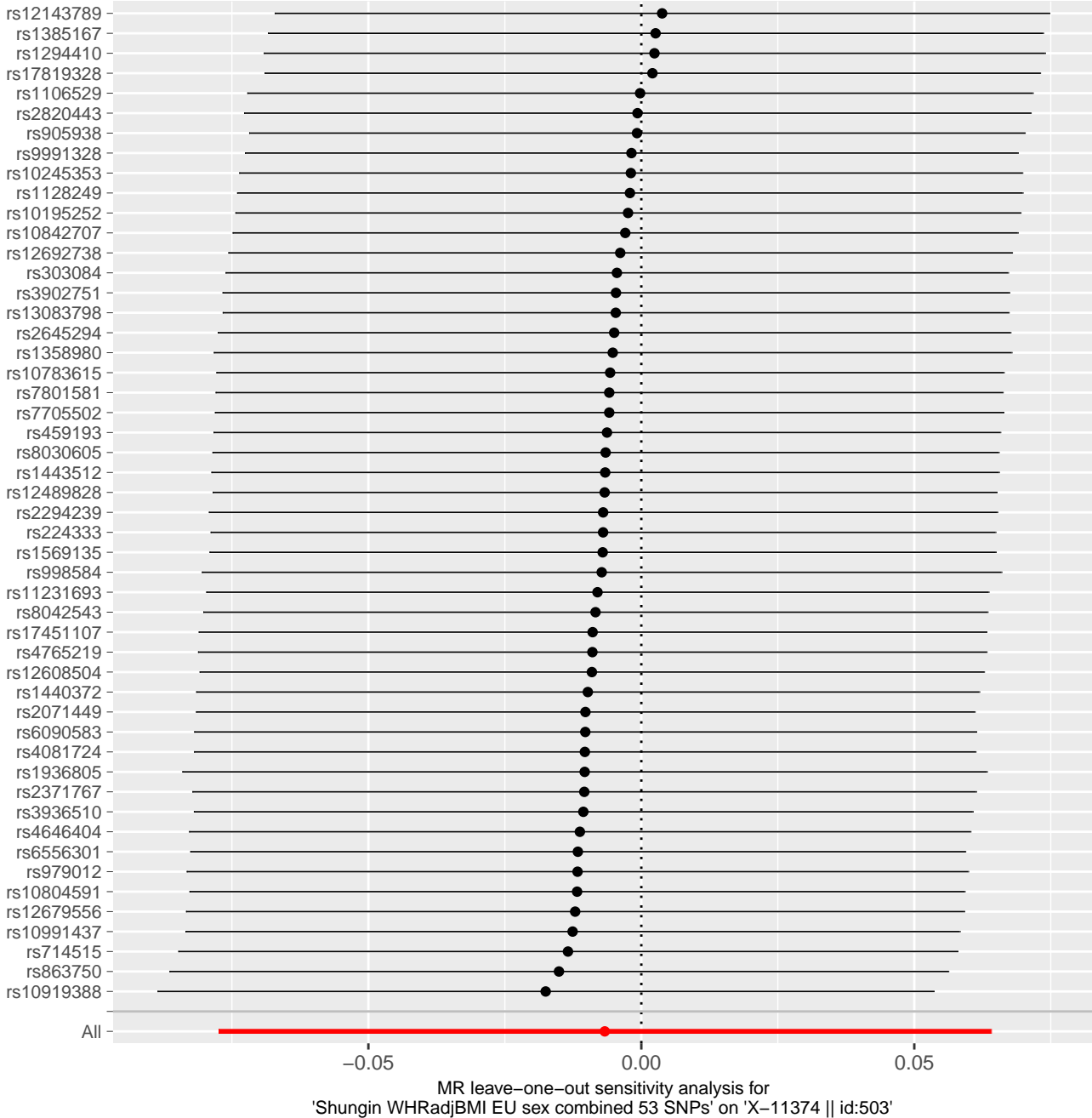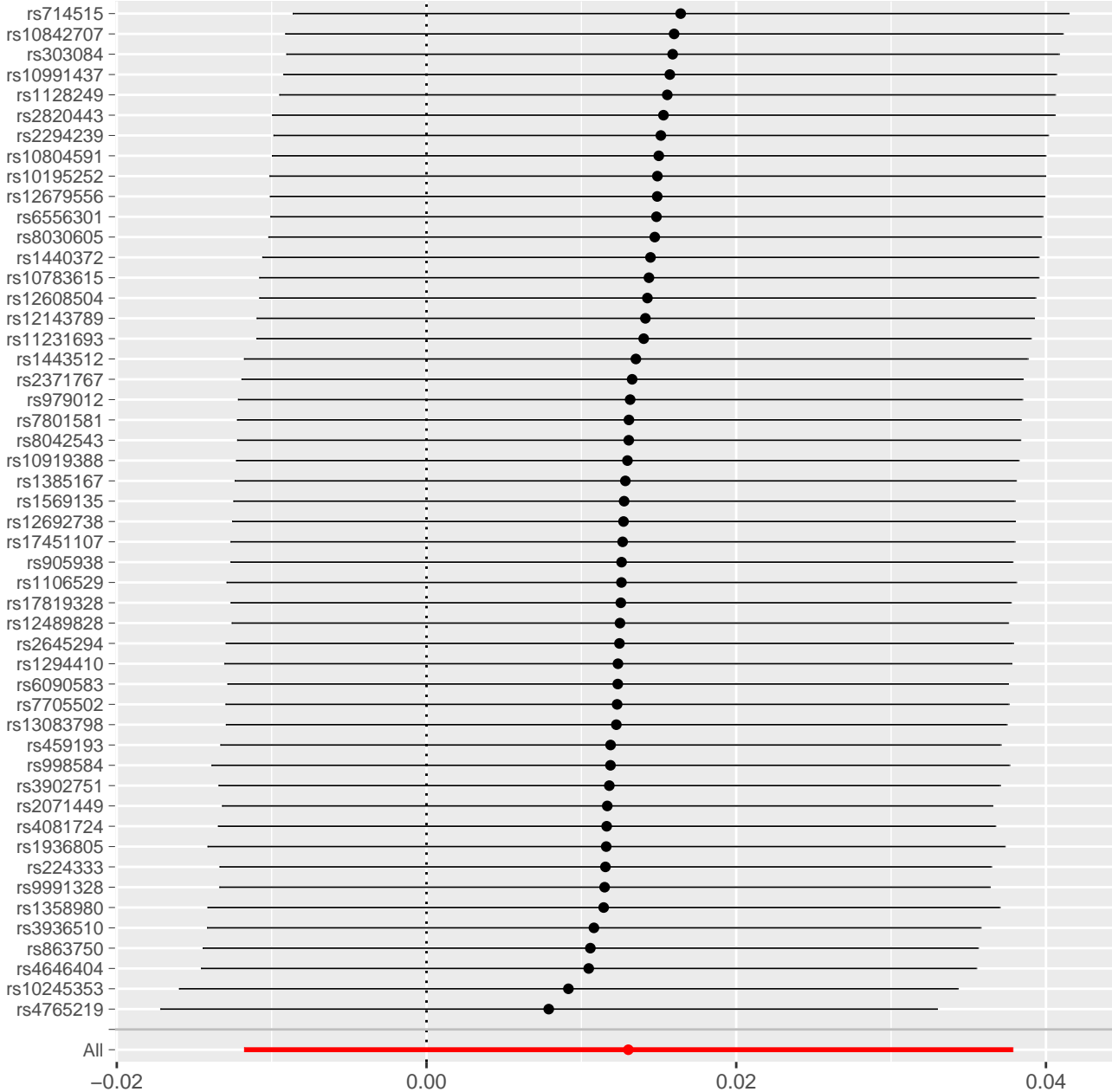'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11327 || id:498'

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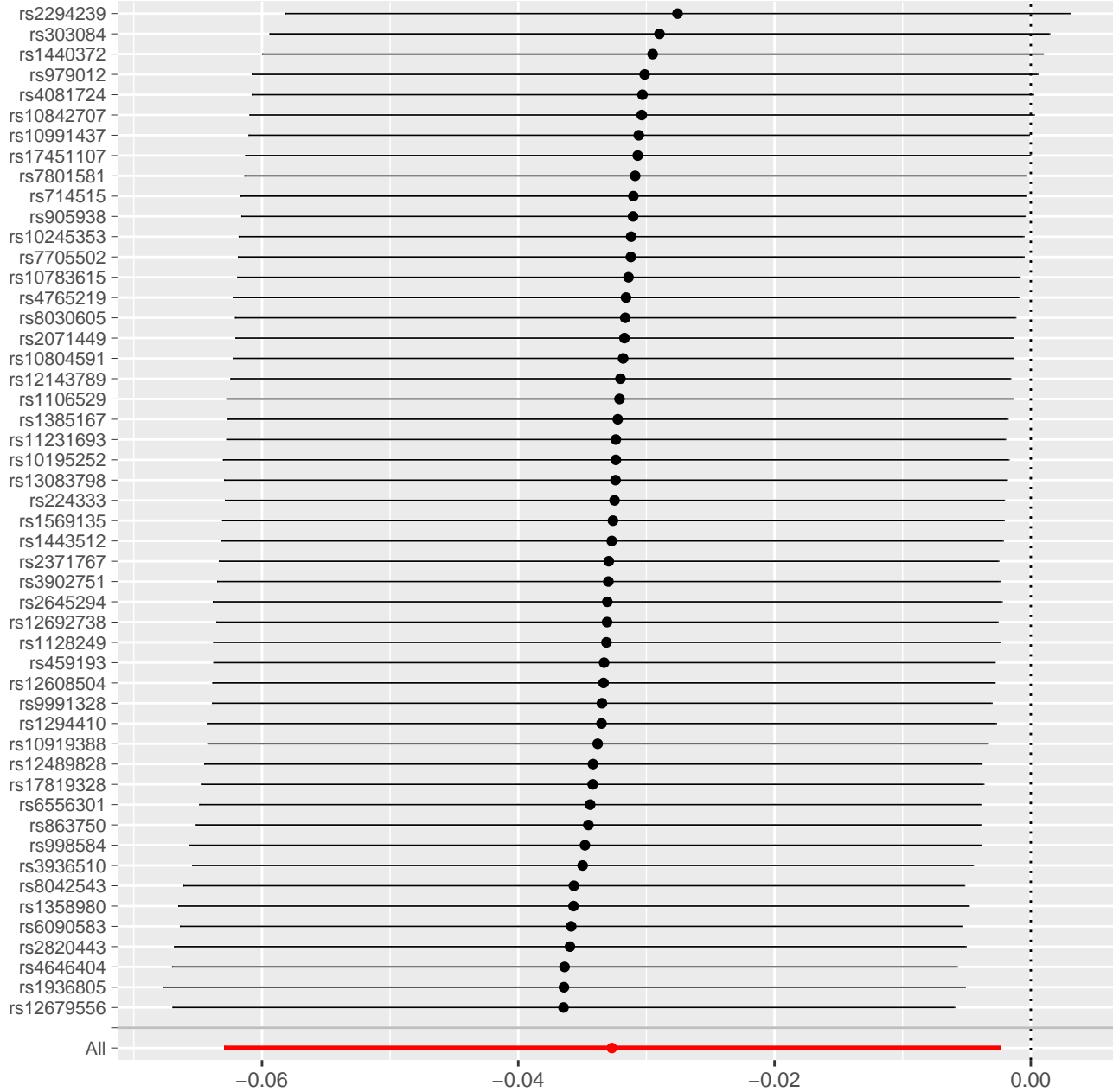'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Pyroglutamine* || id:501'

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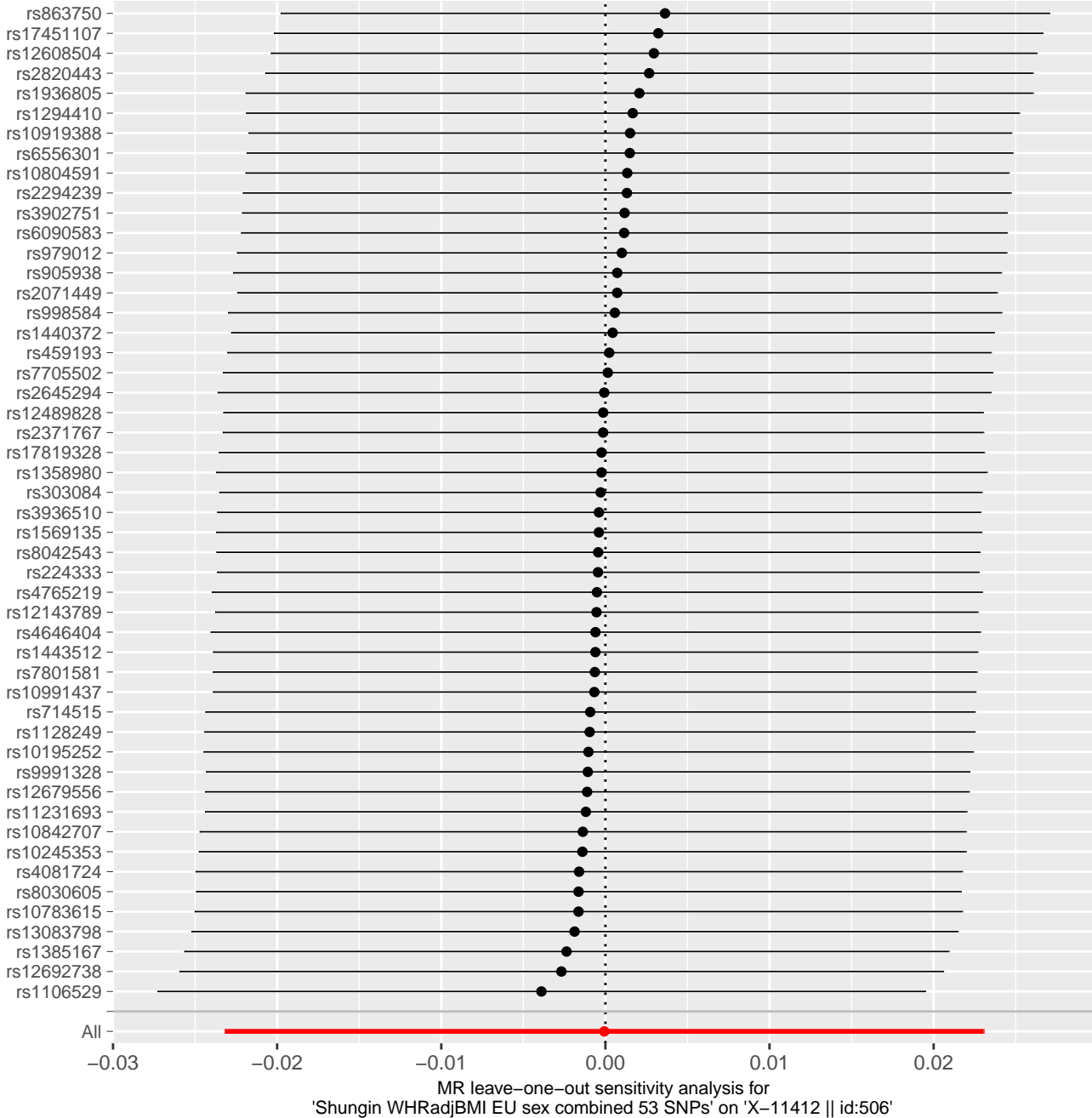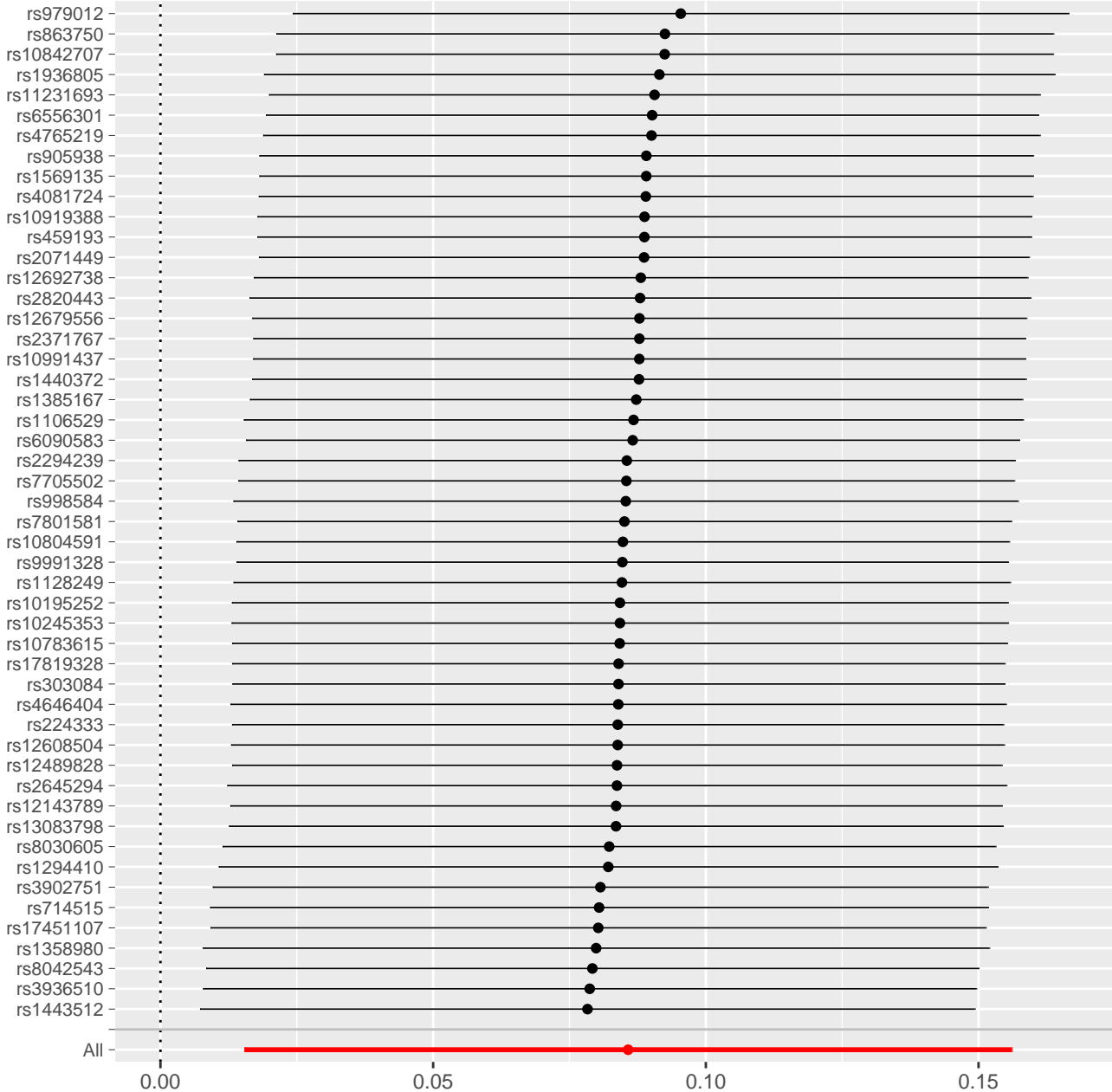'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11374 || id:503'

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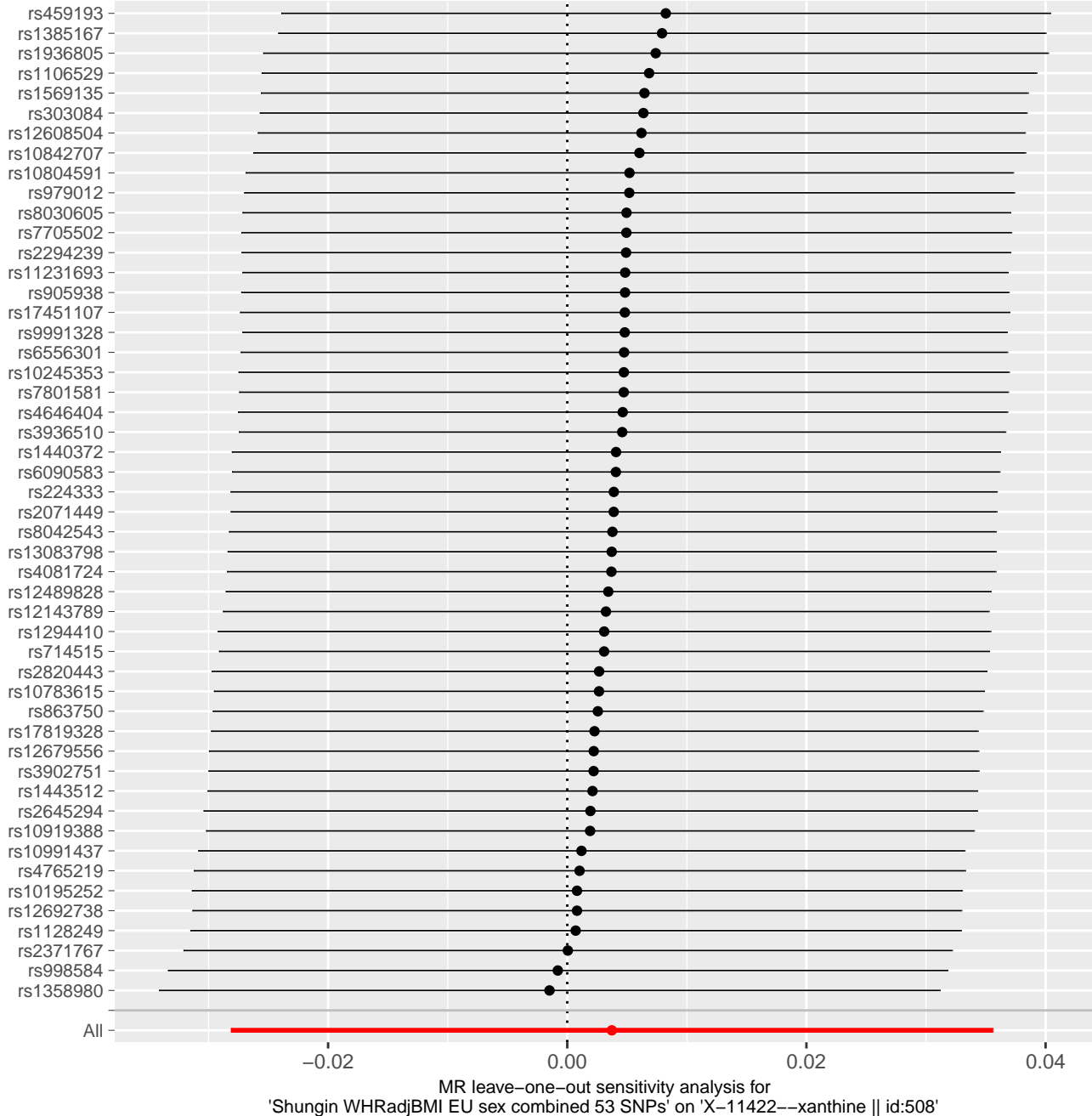
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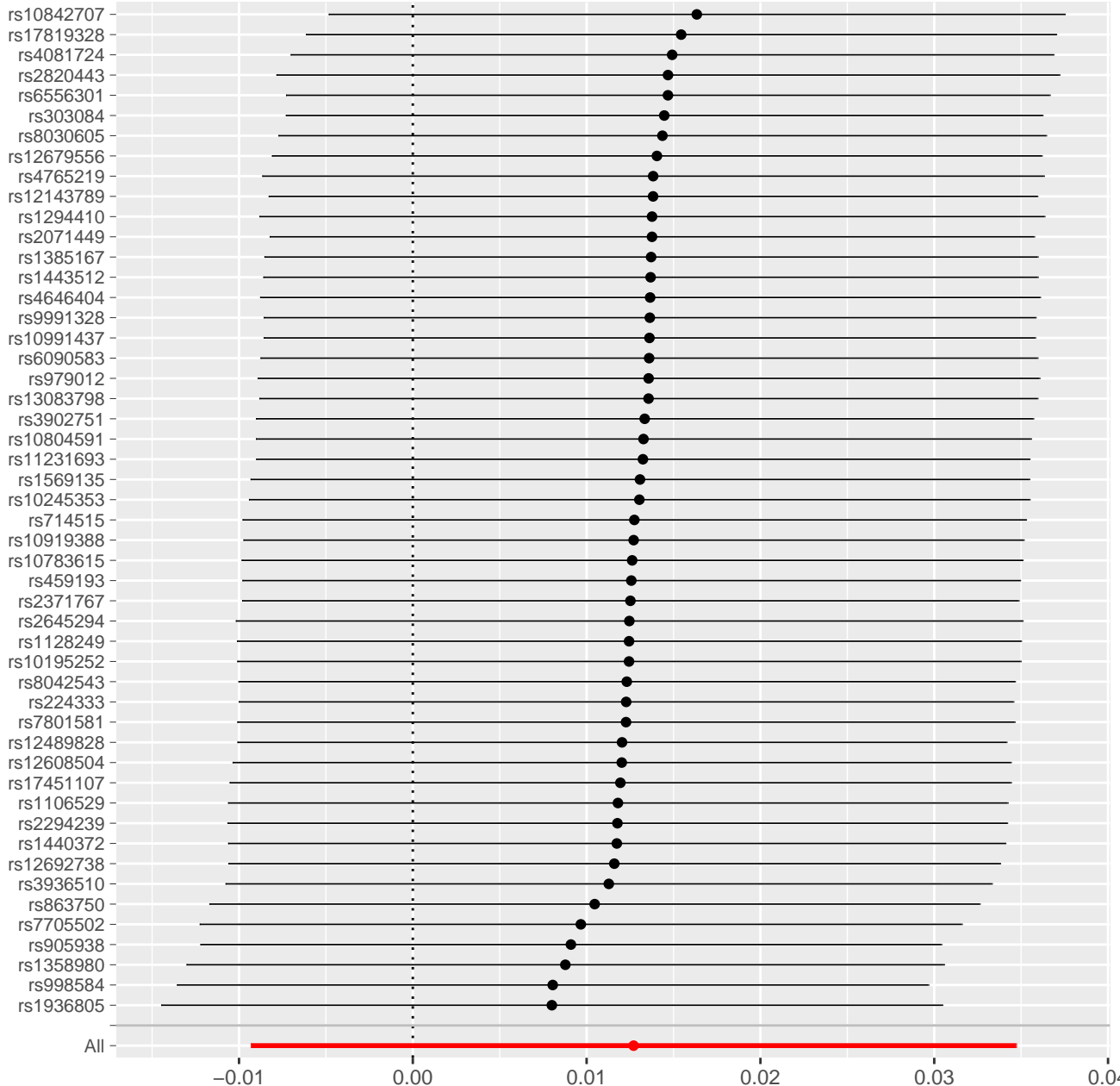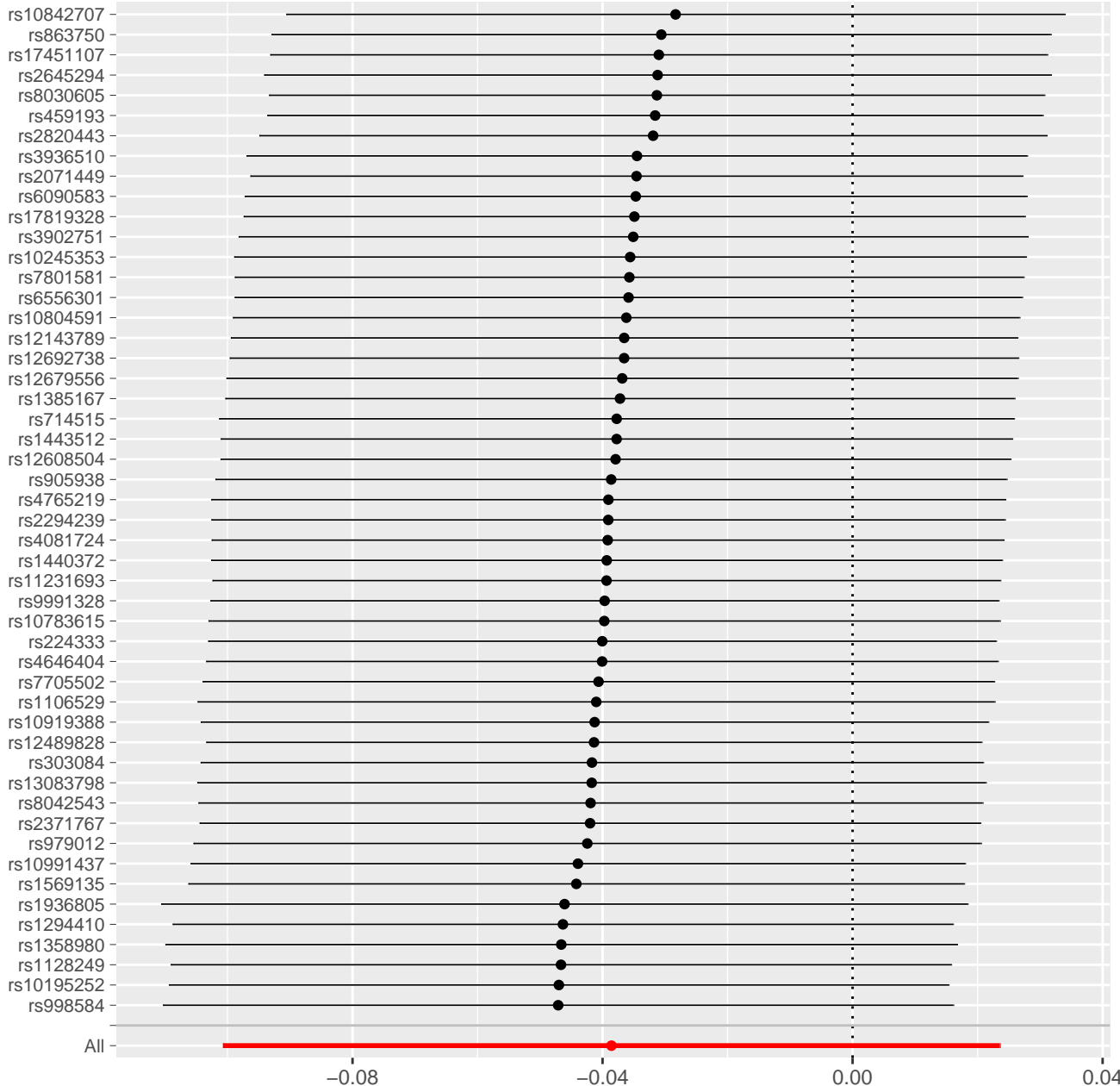
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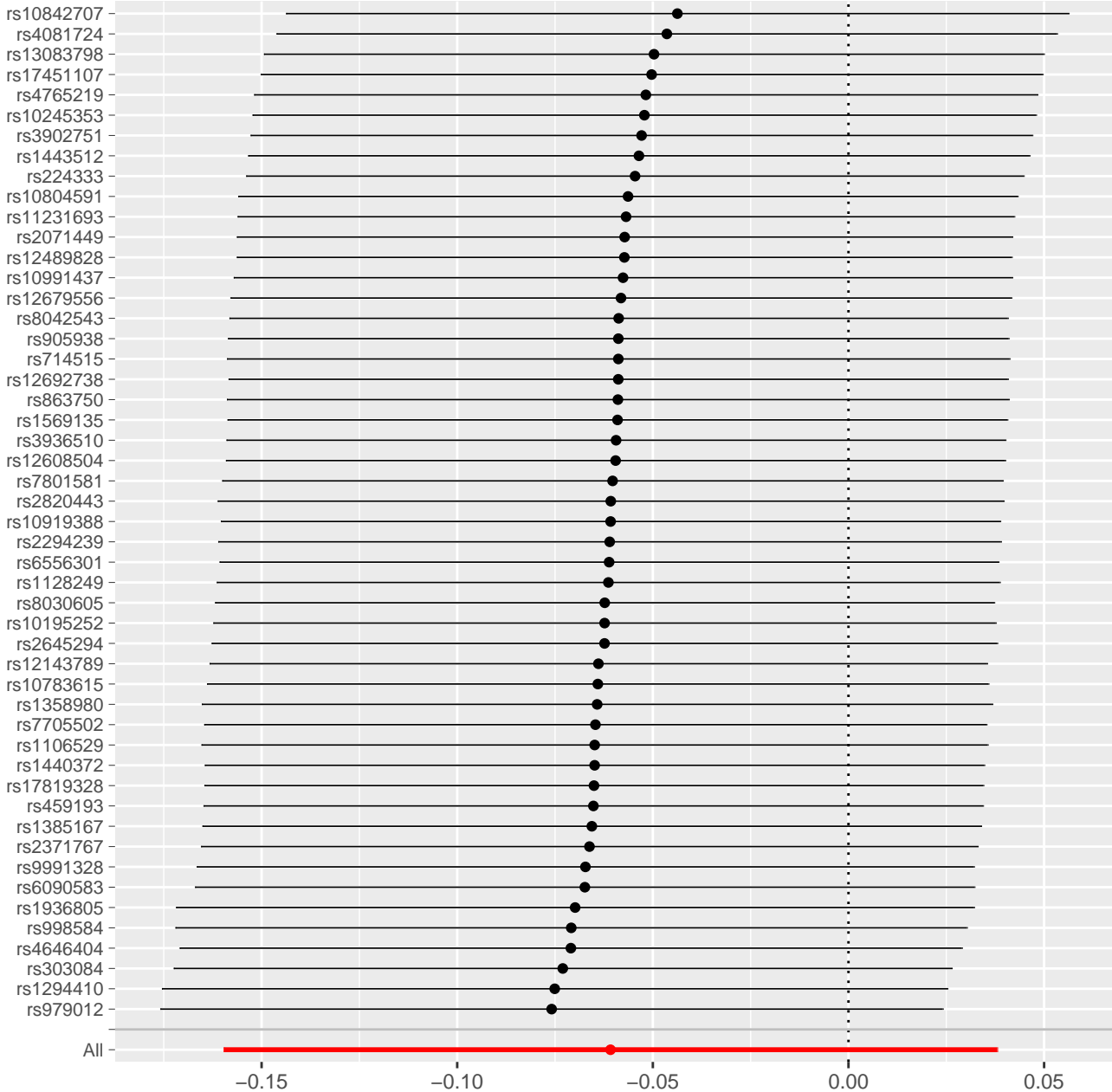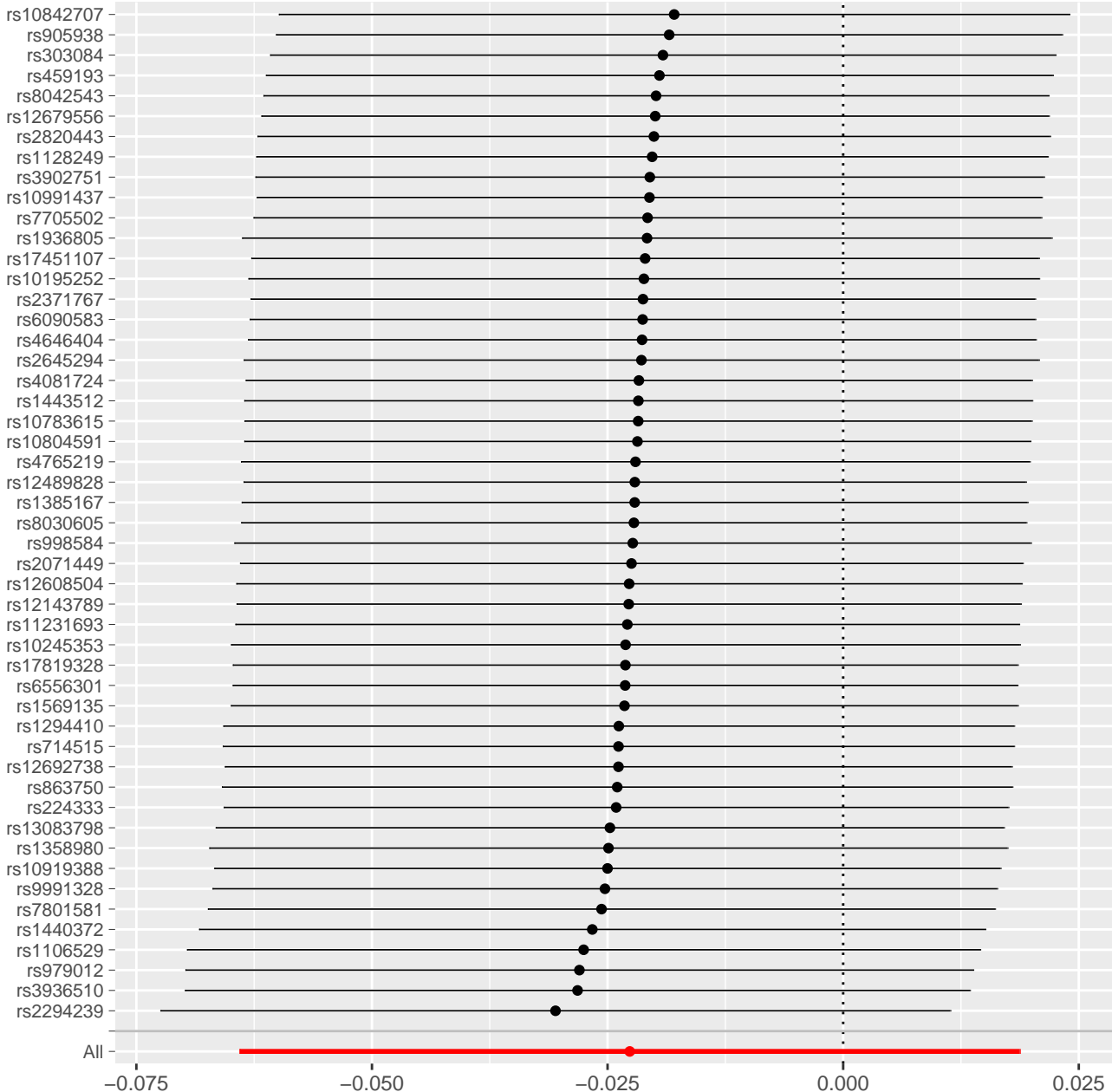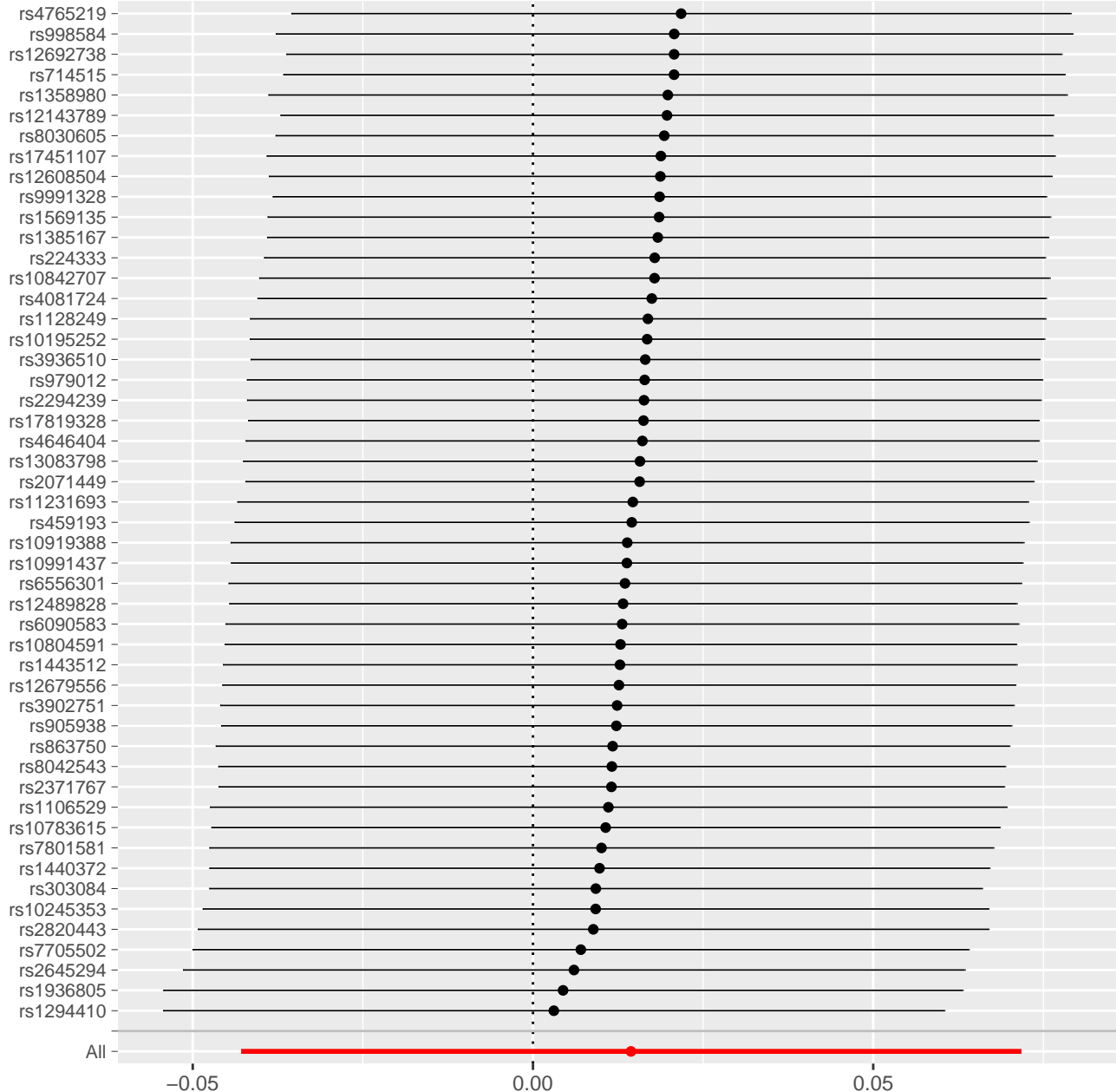'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11423−−O−sulfo−L−tyrosine || id:509'

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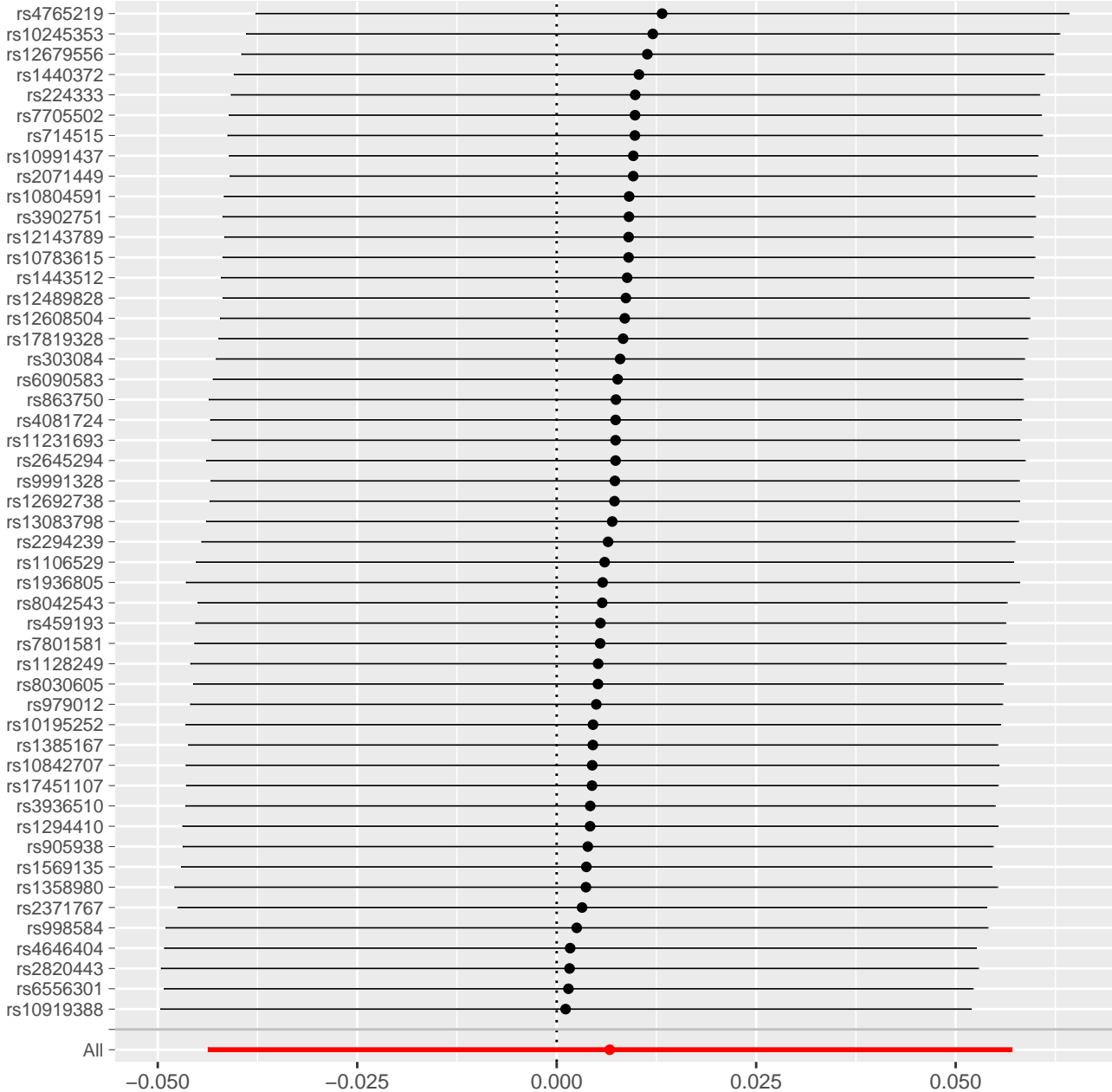'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−09789 || id:510'

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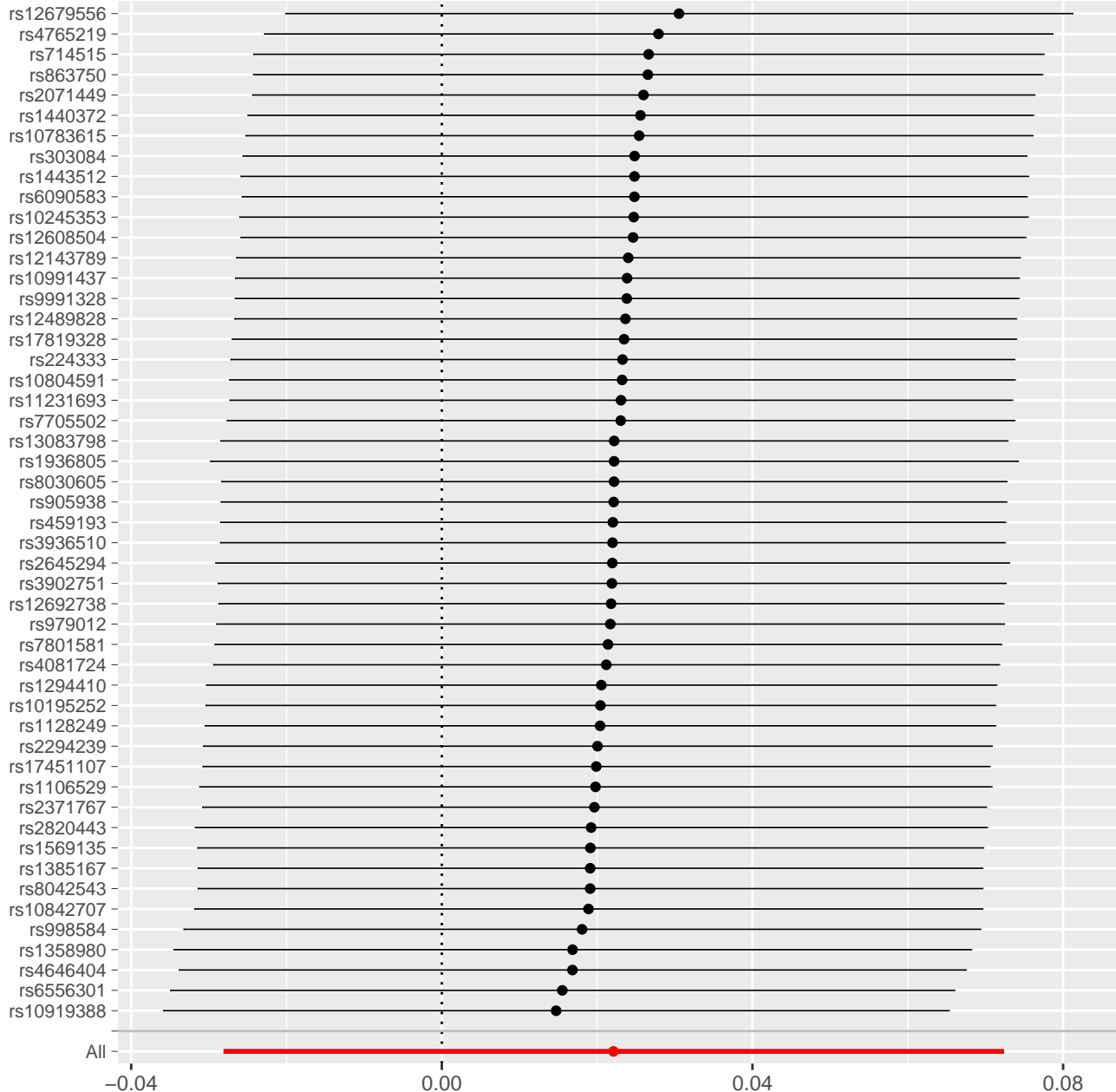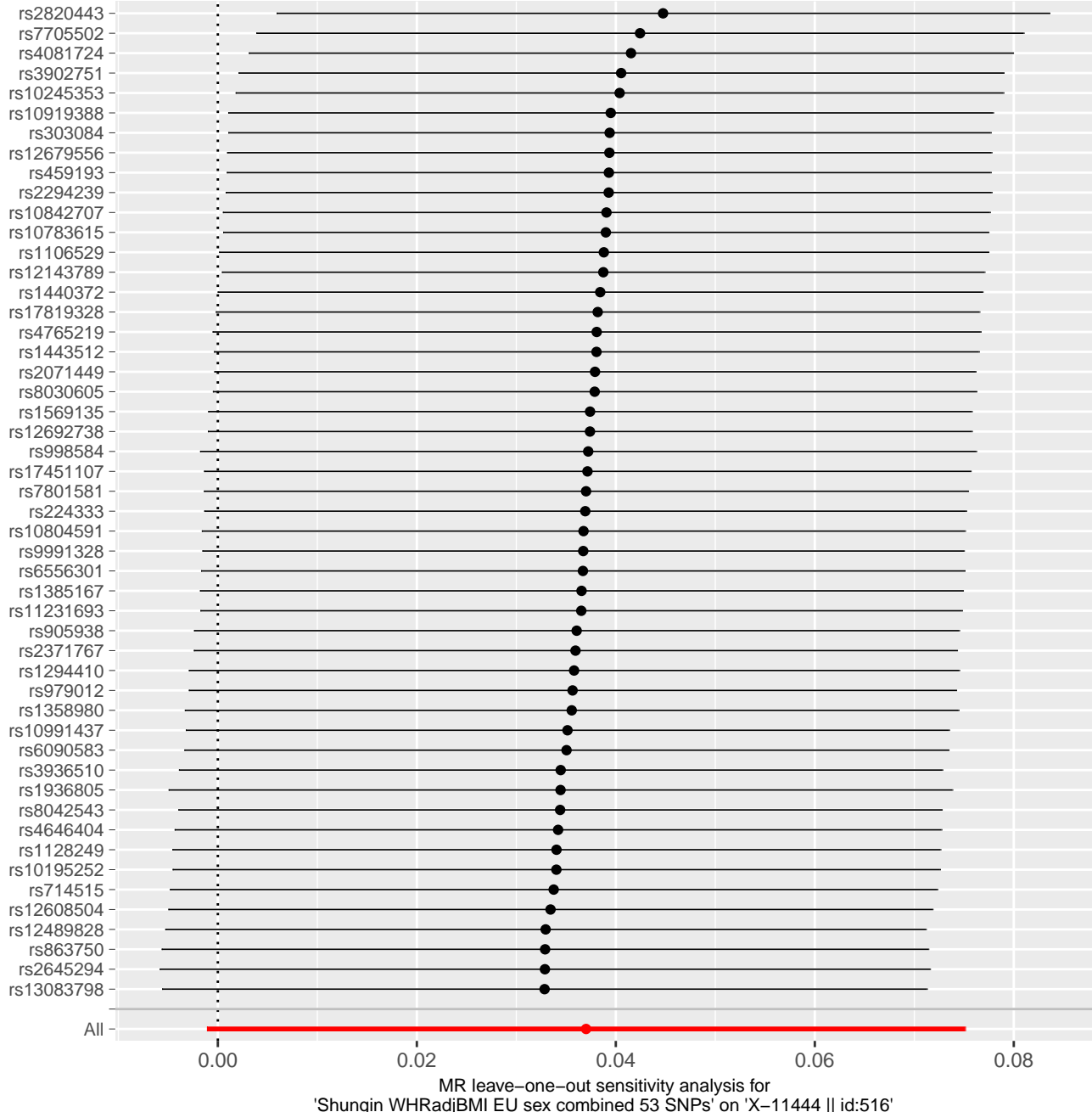'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11438 || id:512'

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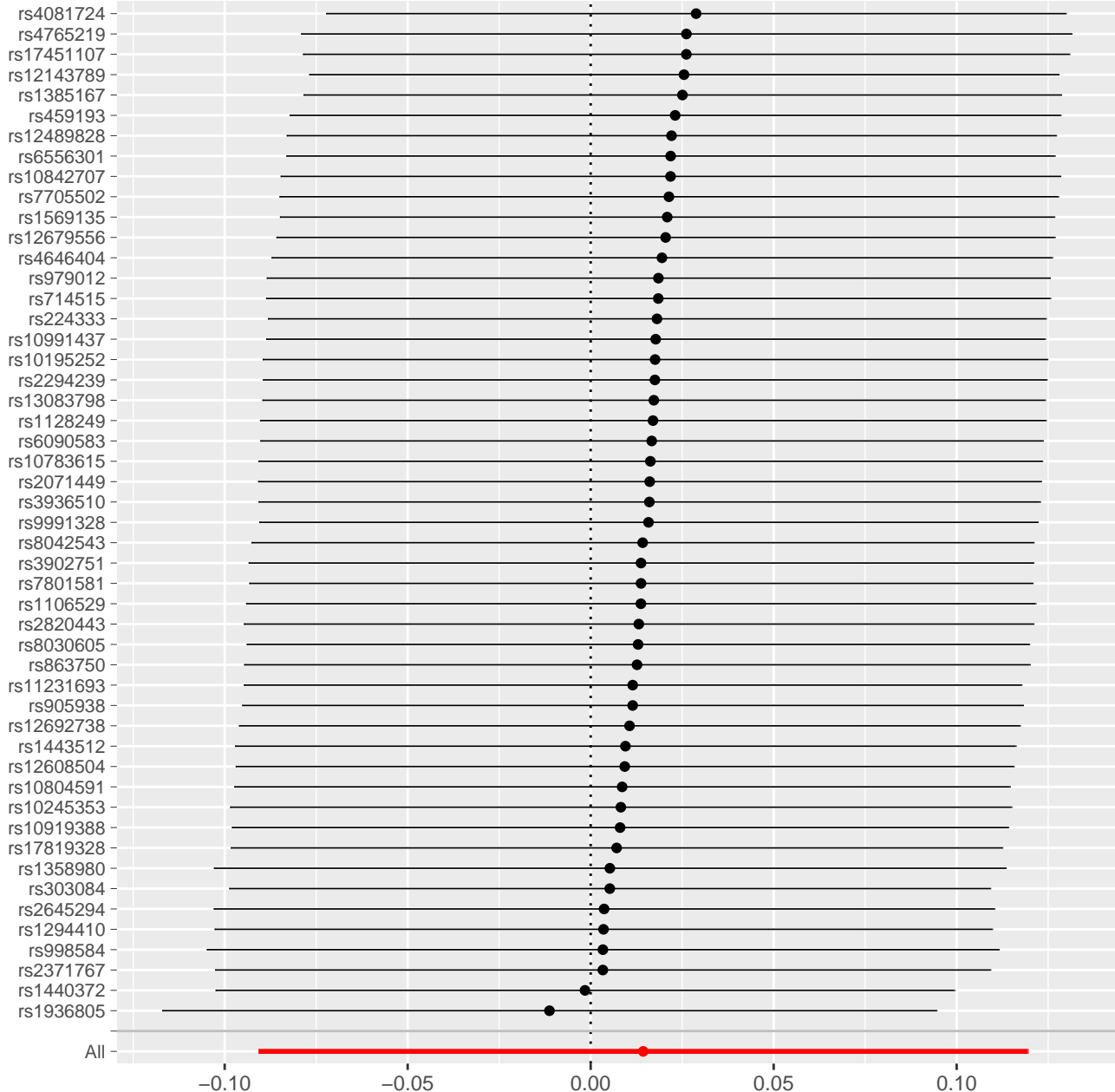'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11440 || id:513'

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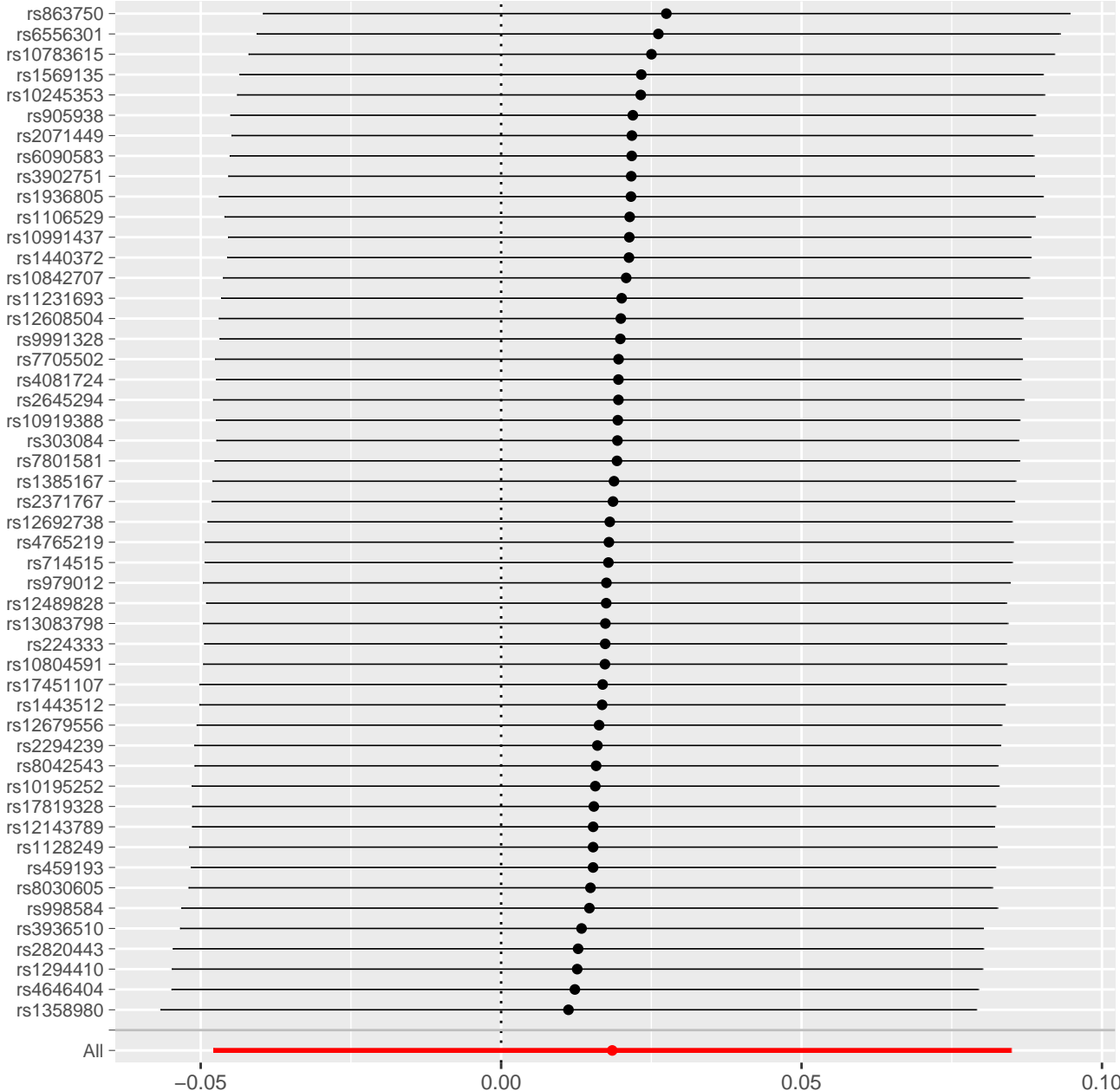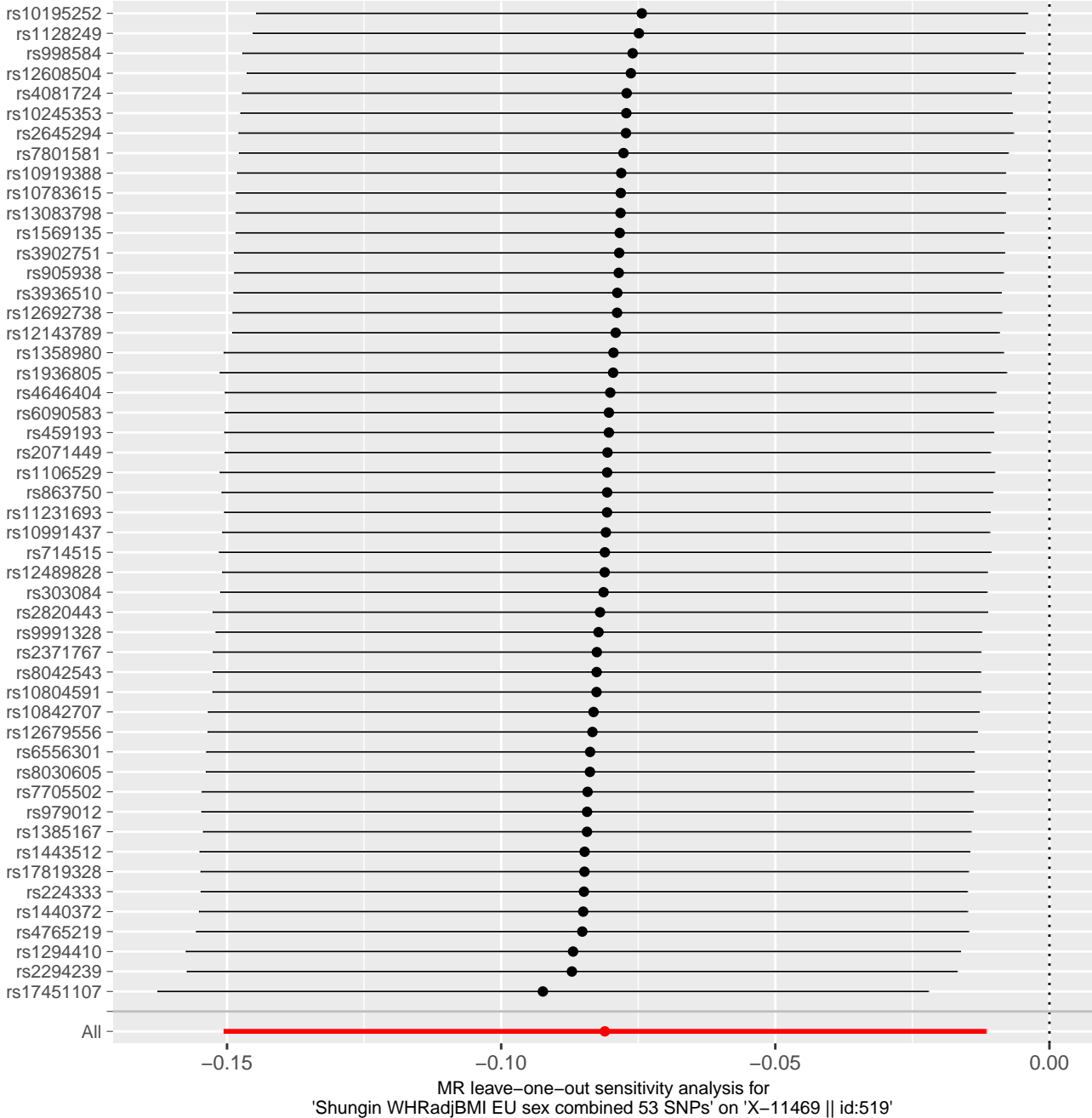'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11442 || id:515'

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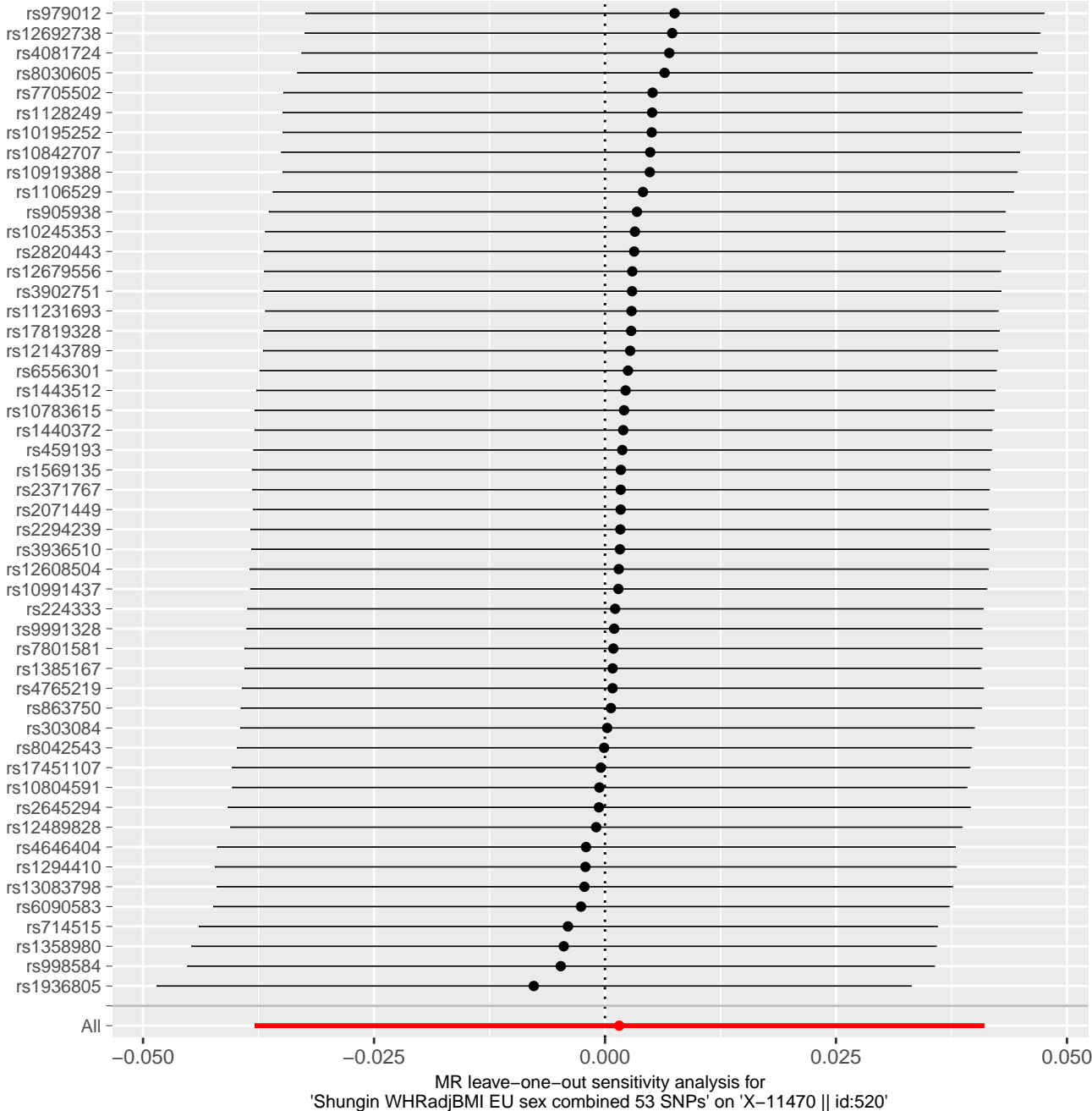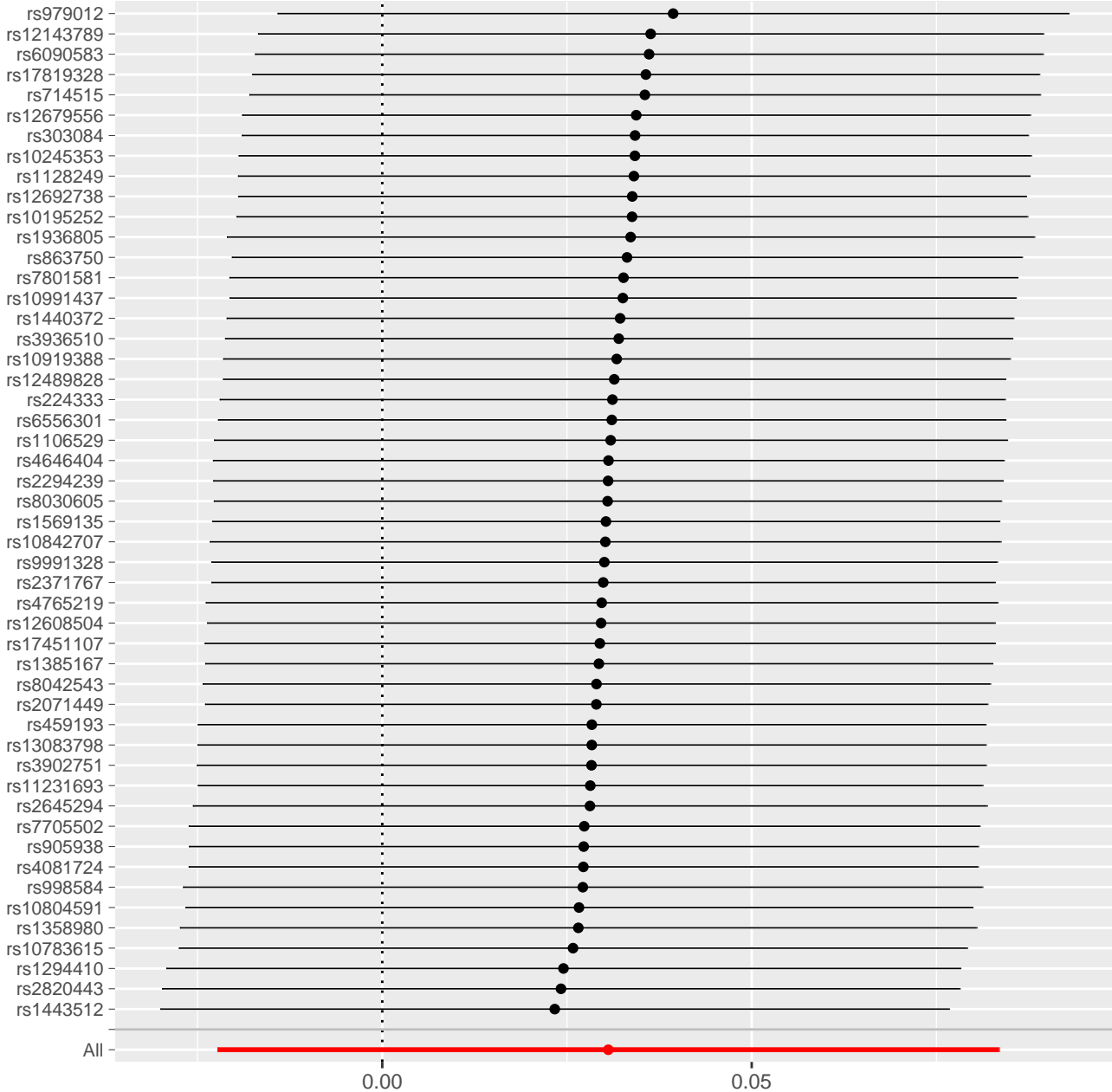
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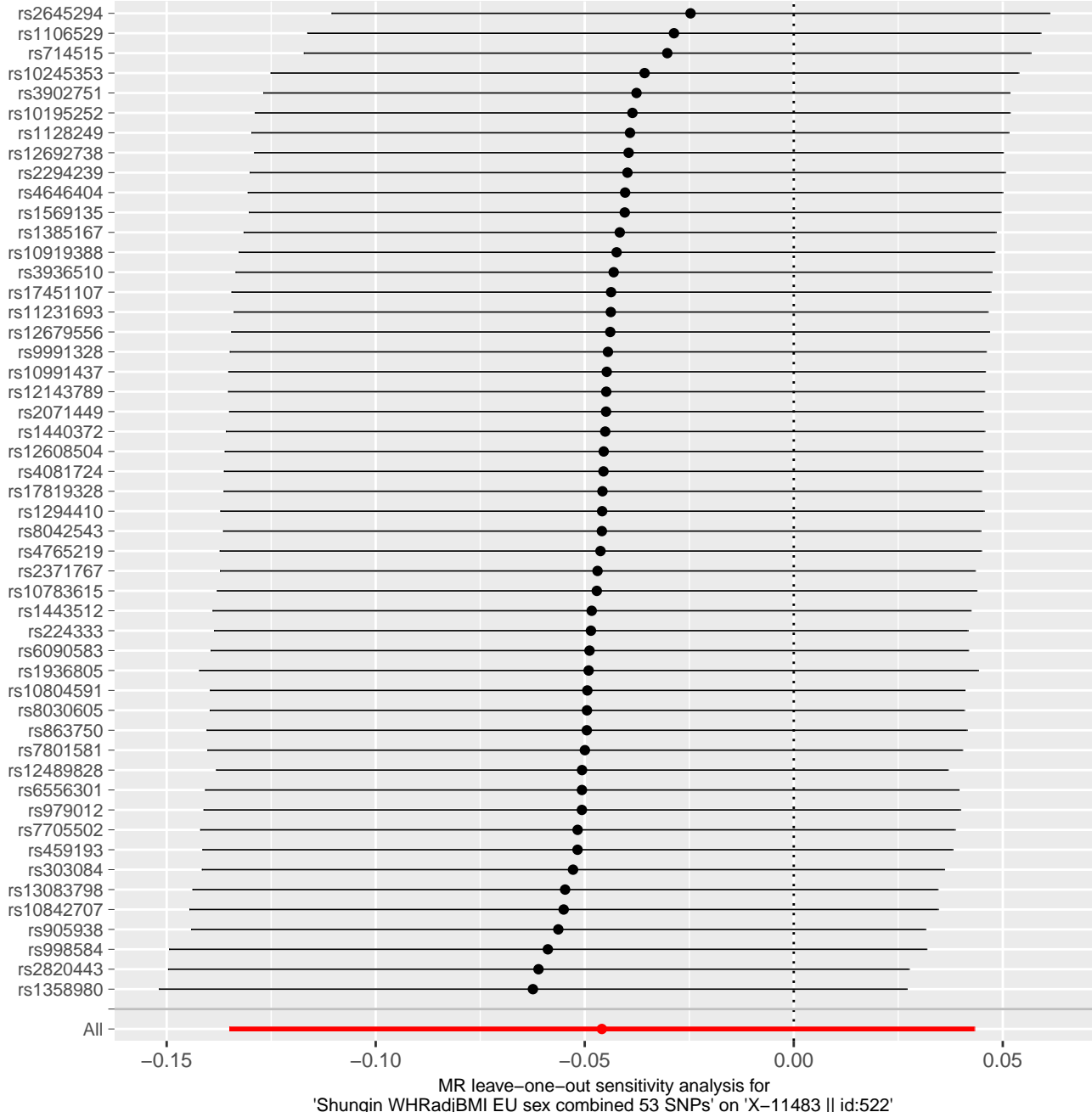'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11452 || id:518'

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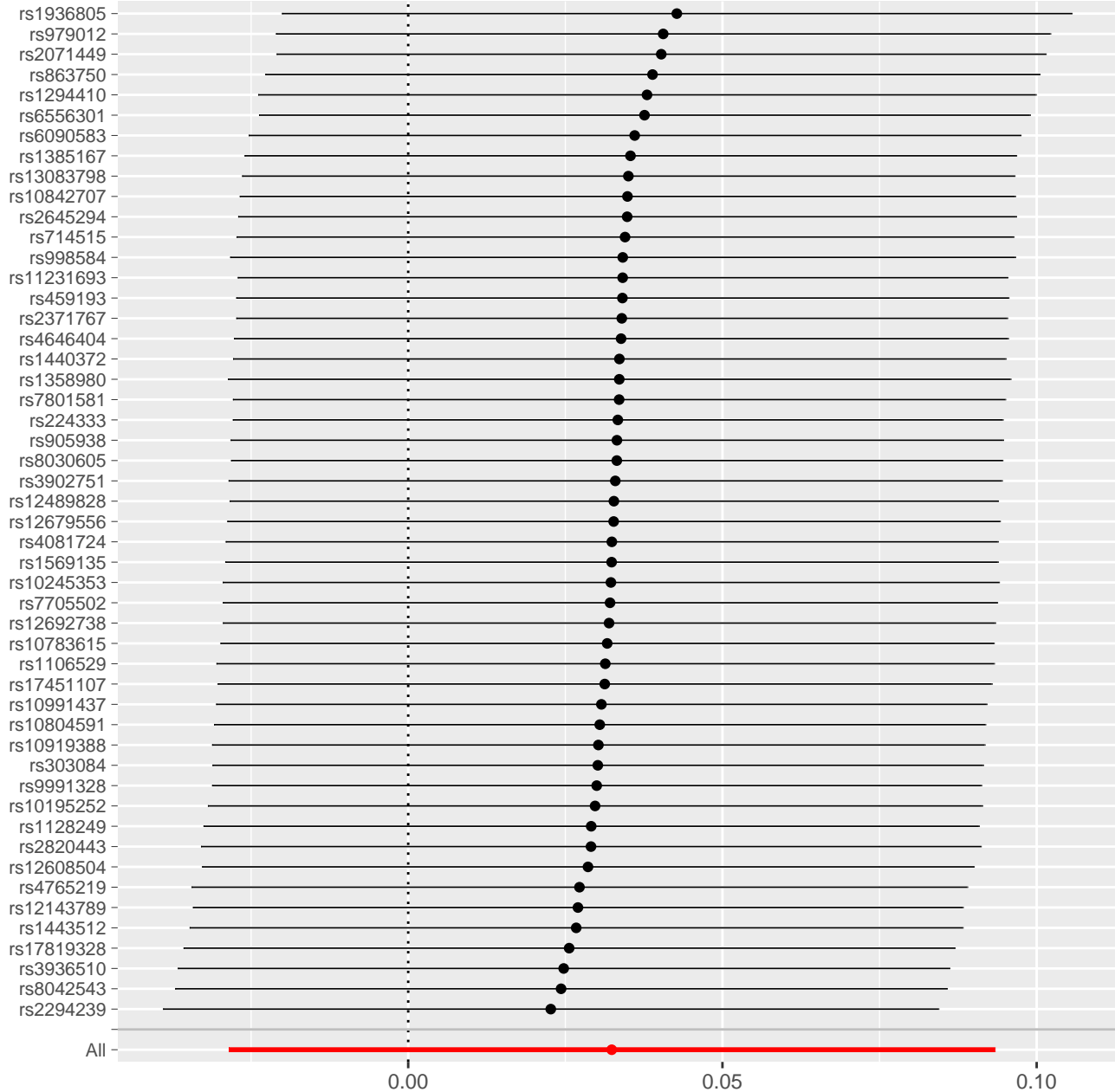'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11470 || id:520'
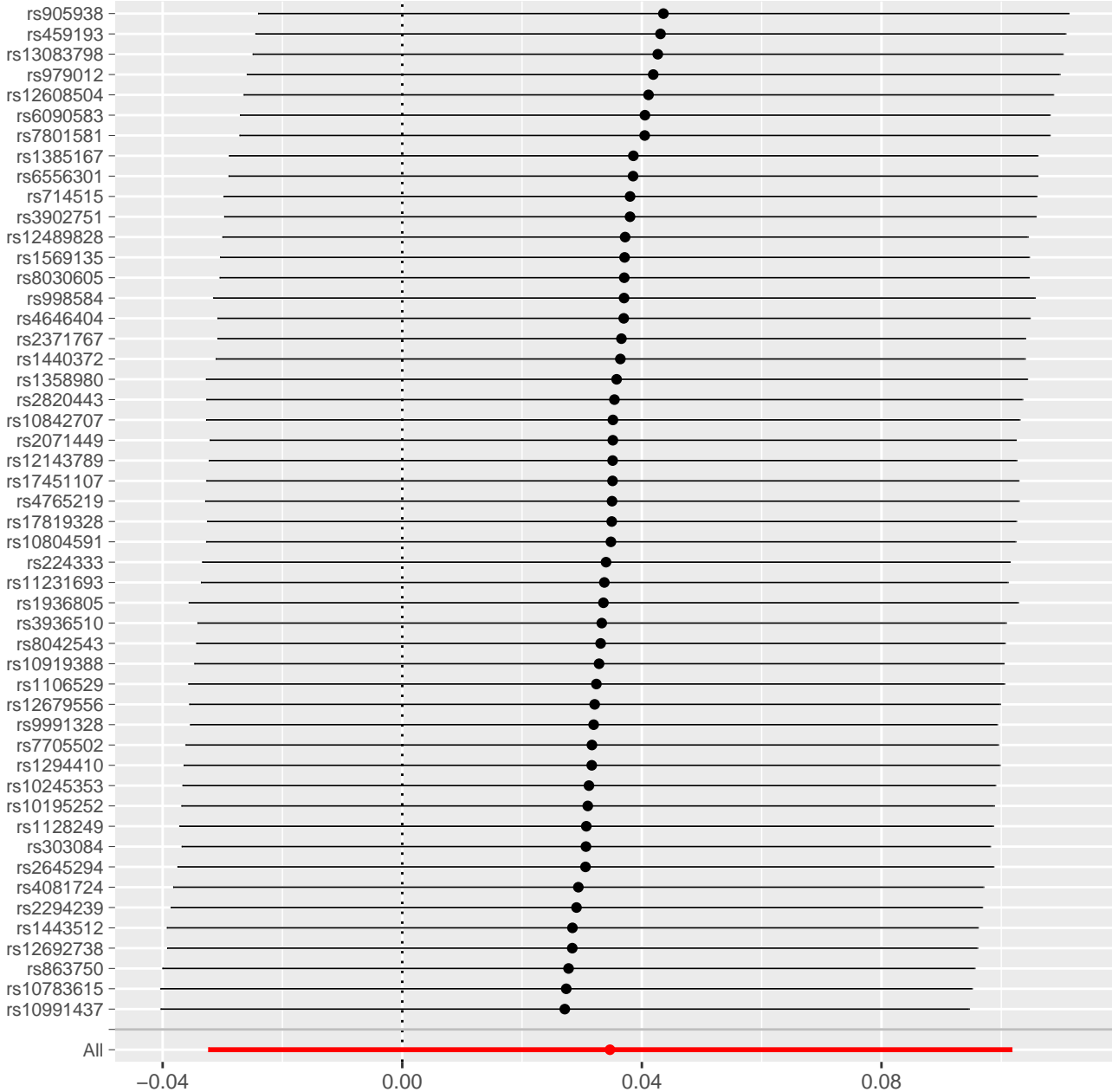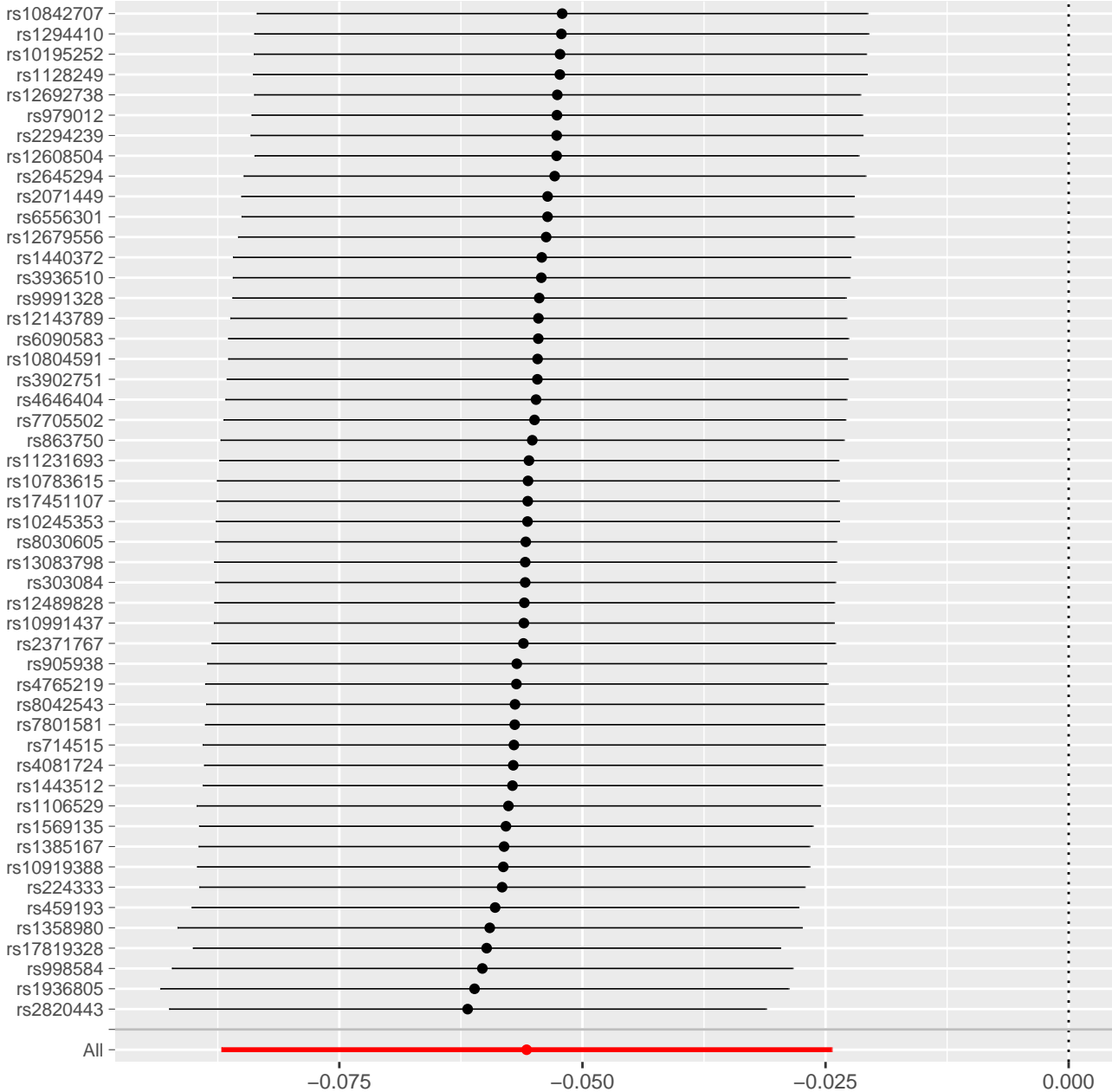
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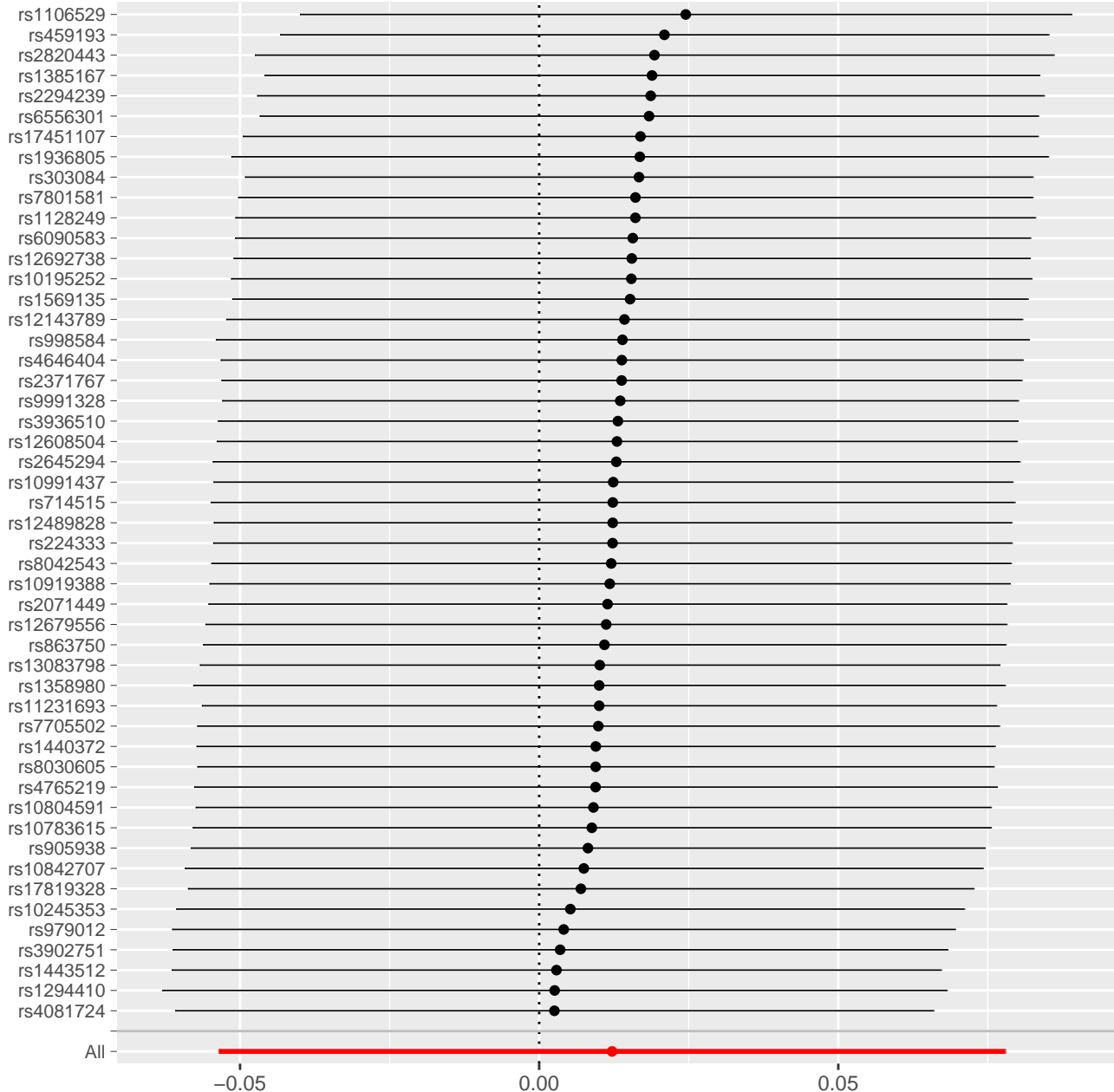'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11483 || id:522'

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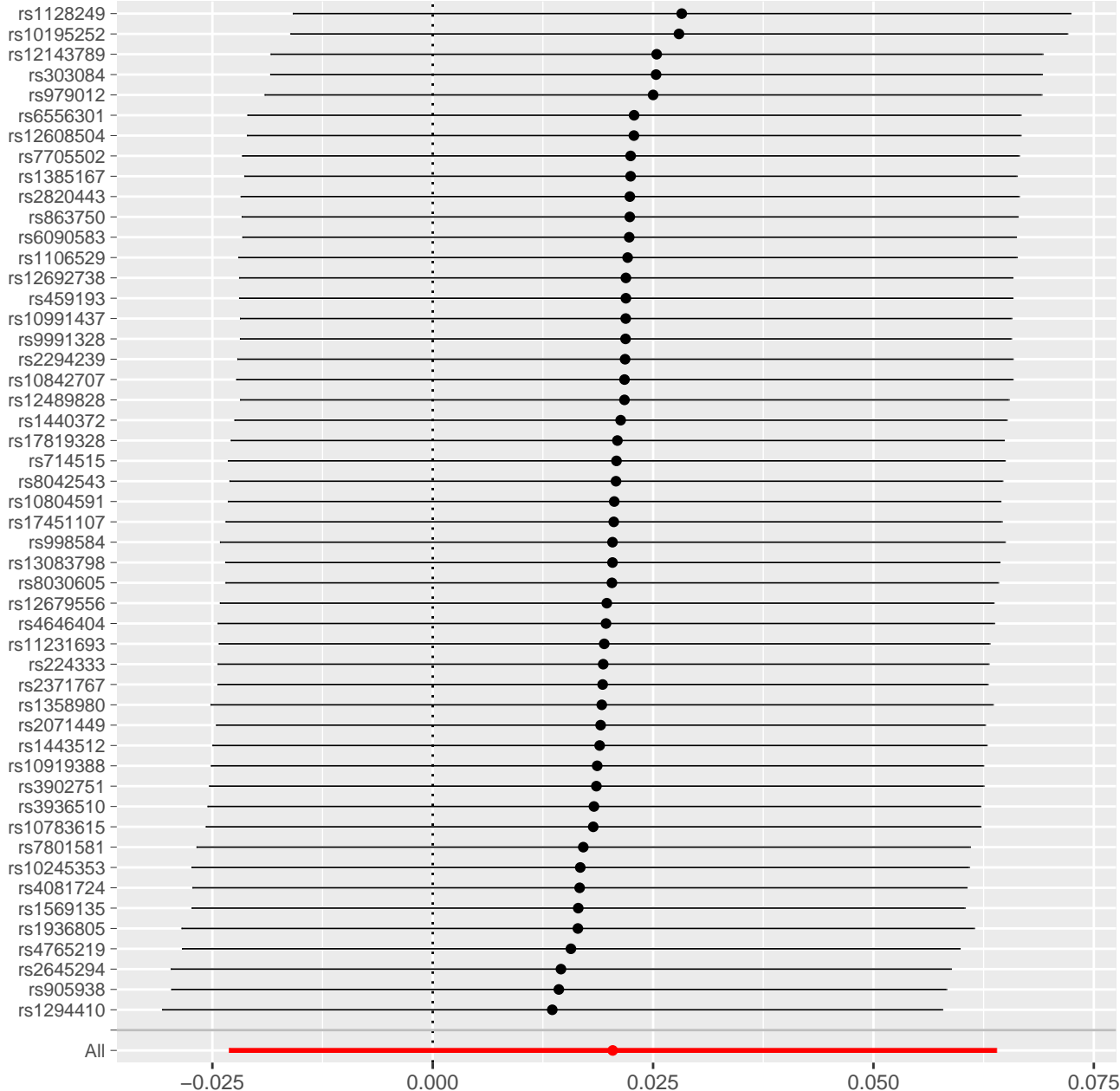'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11491 || id:524'

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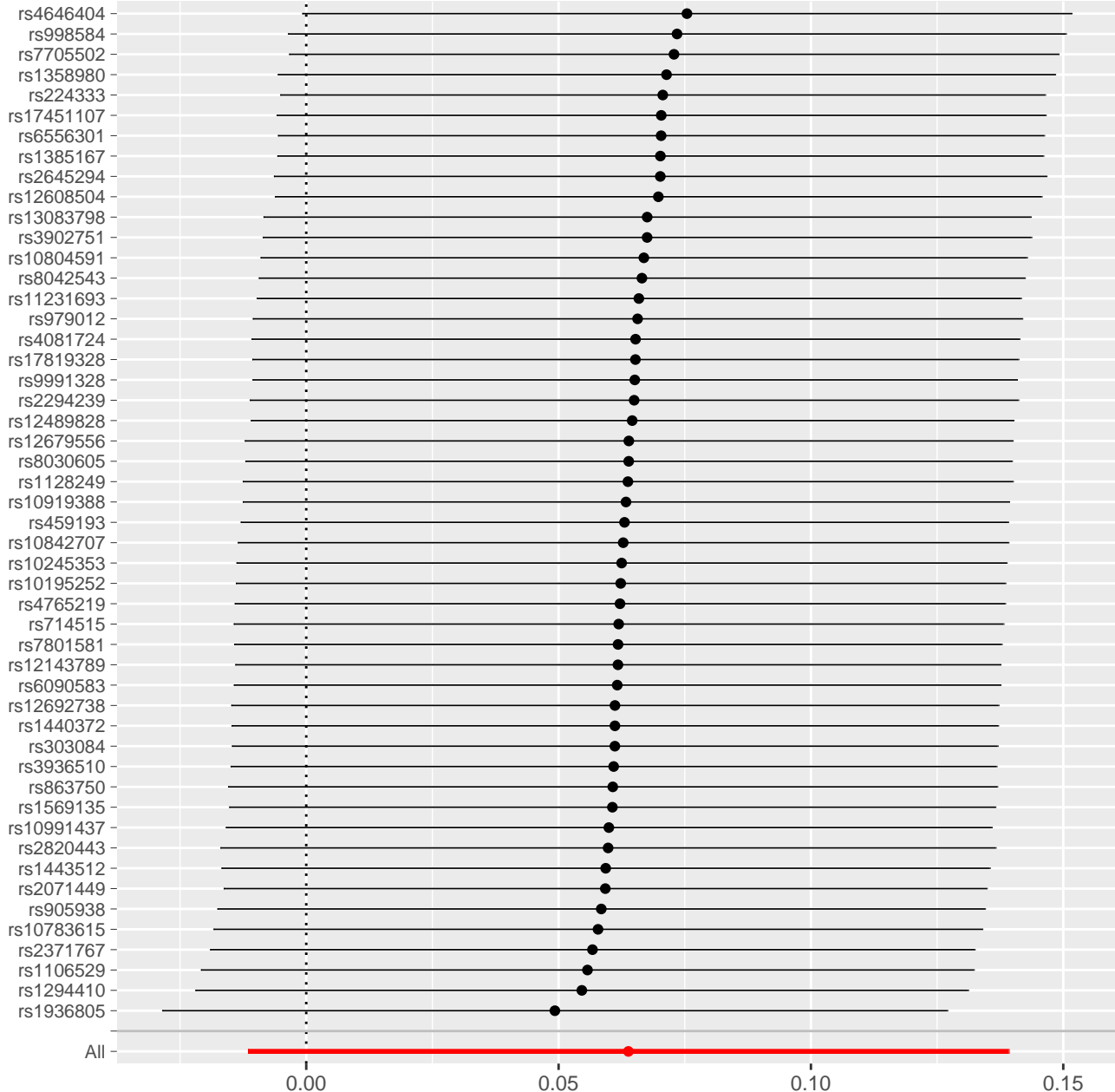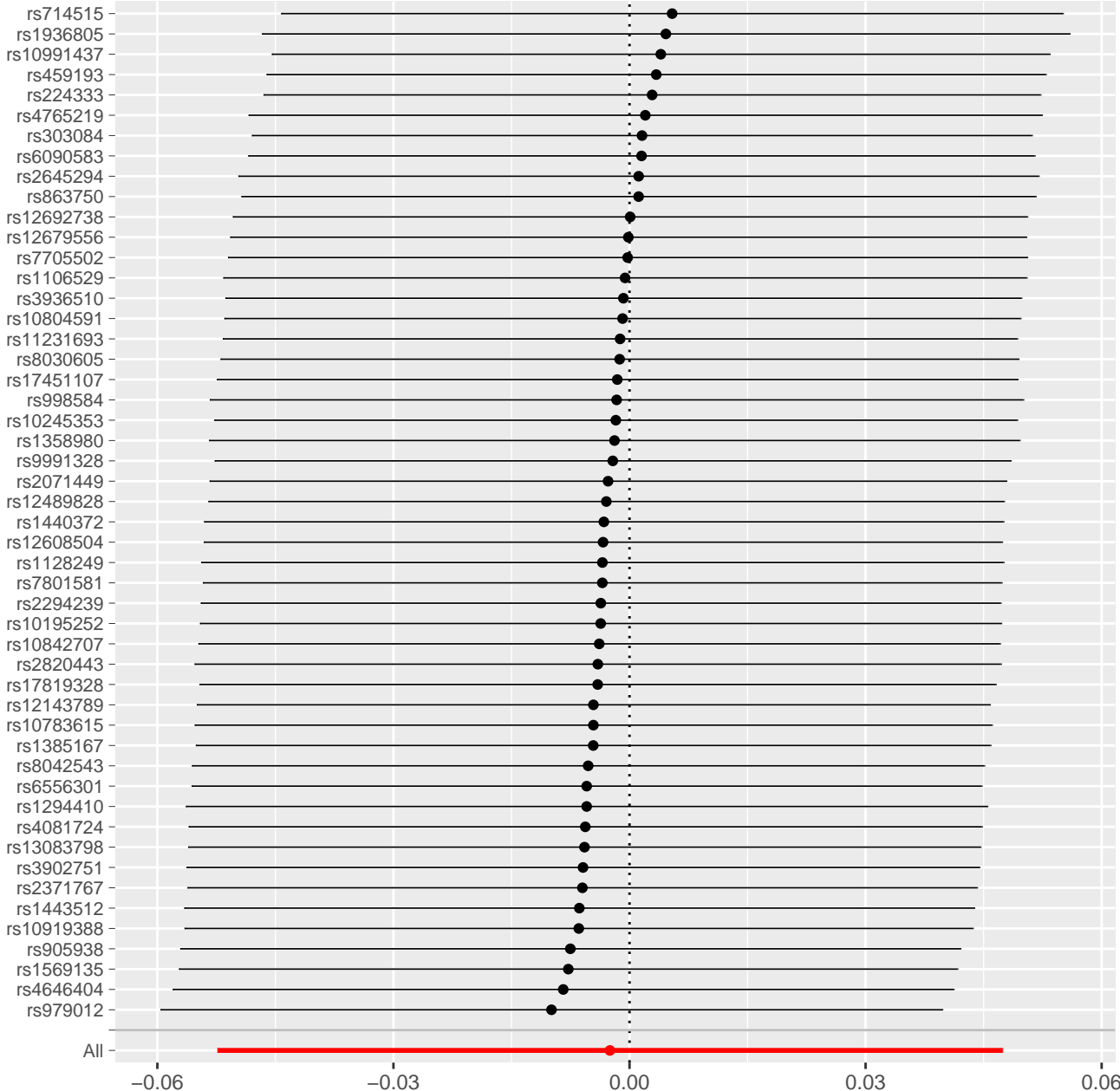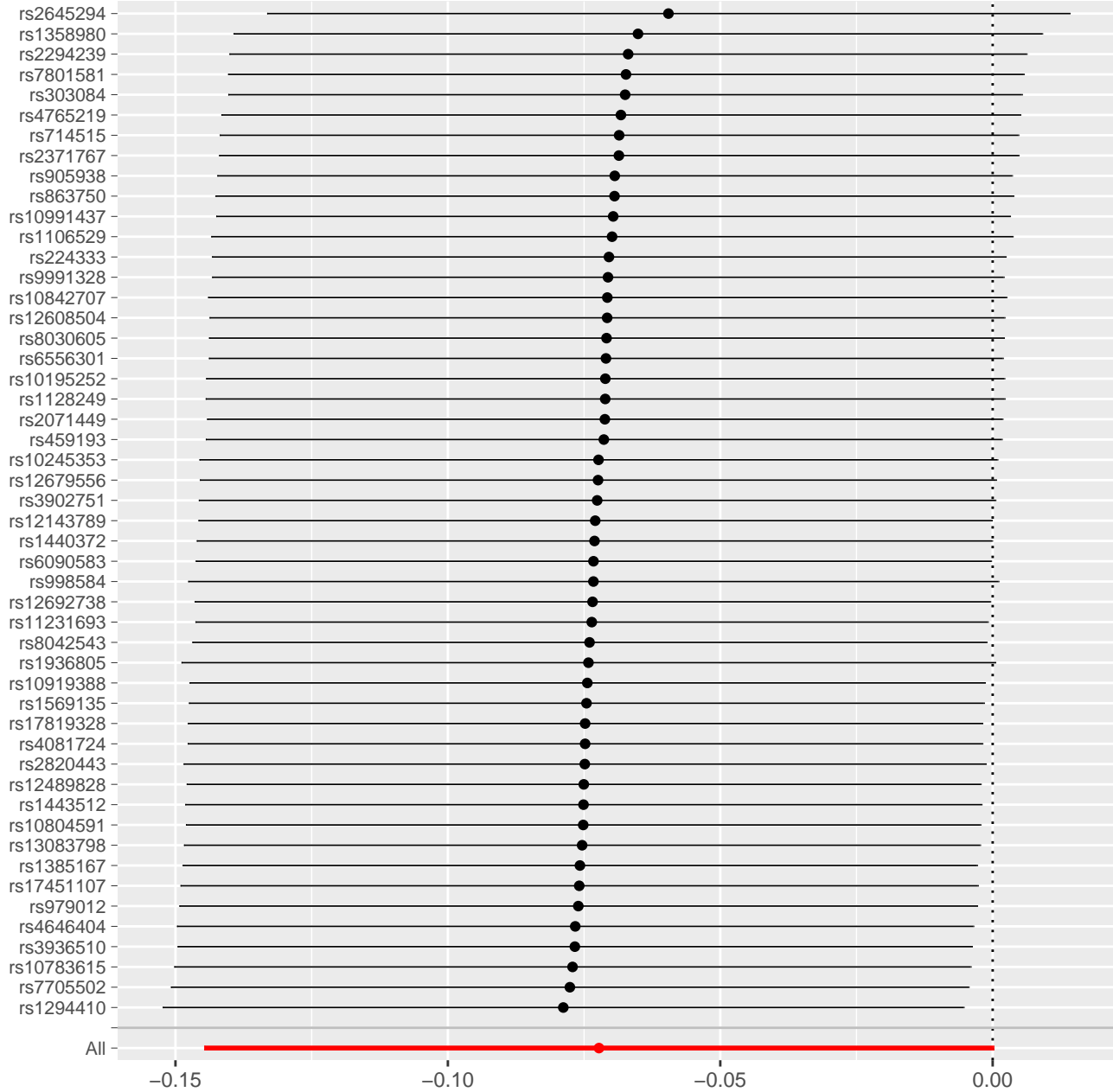'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11497 || id:525'

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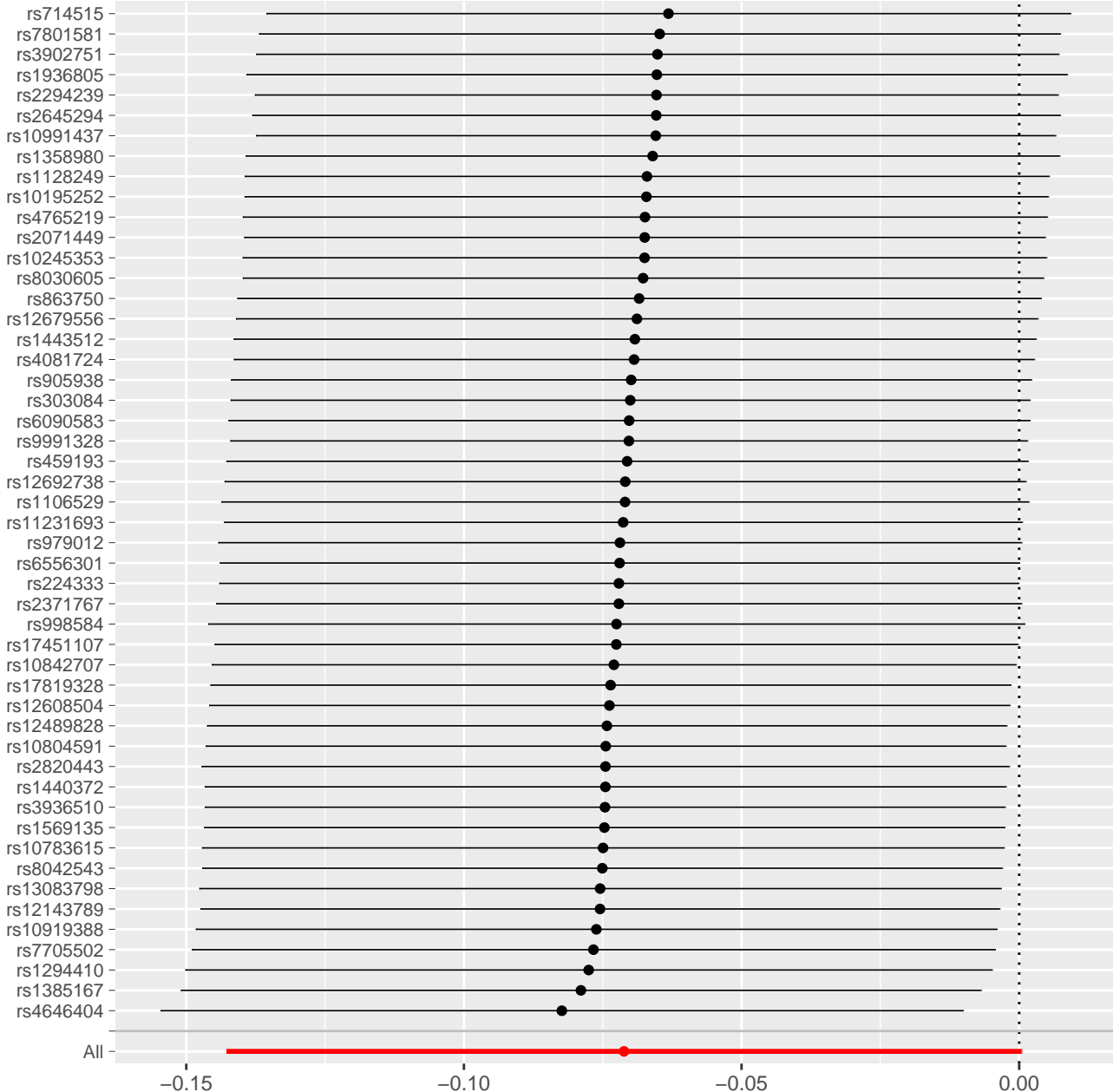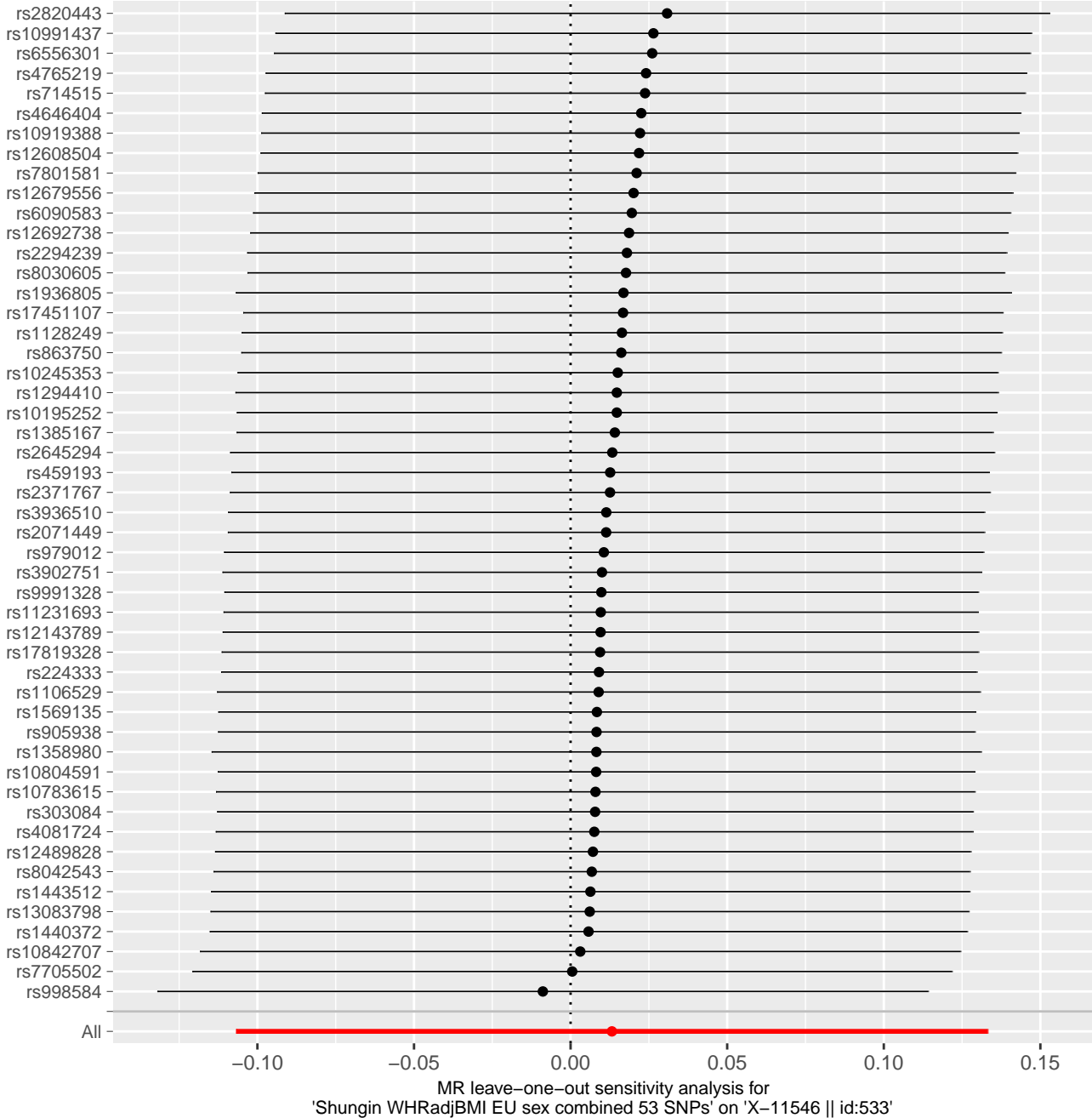'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11530 || id:529'

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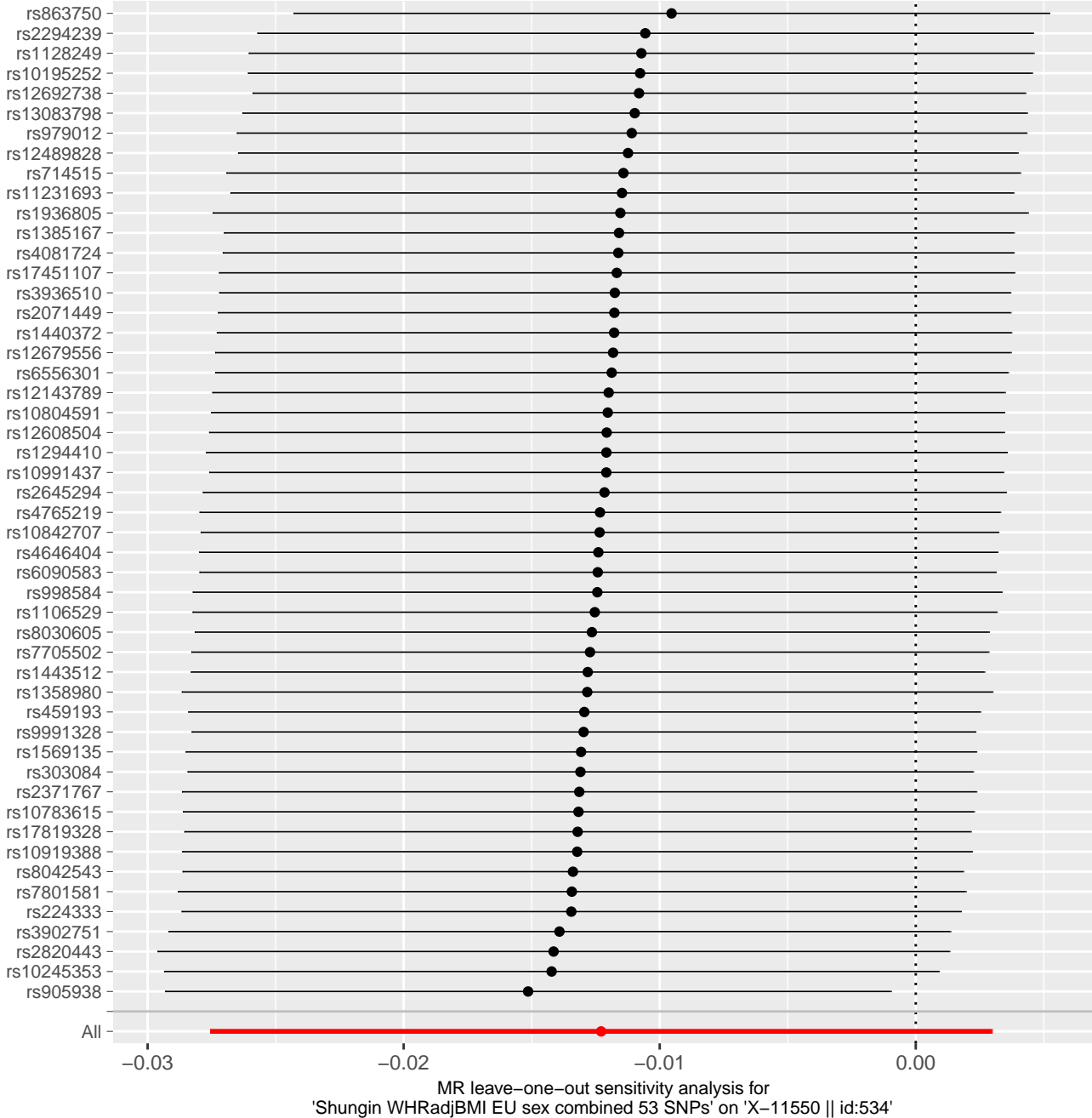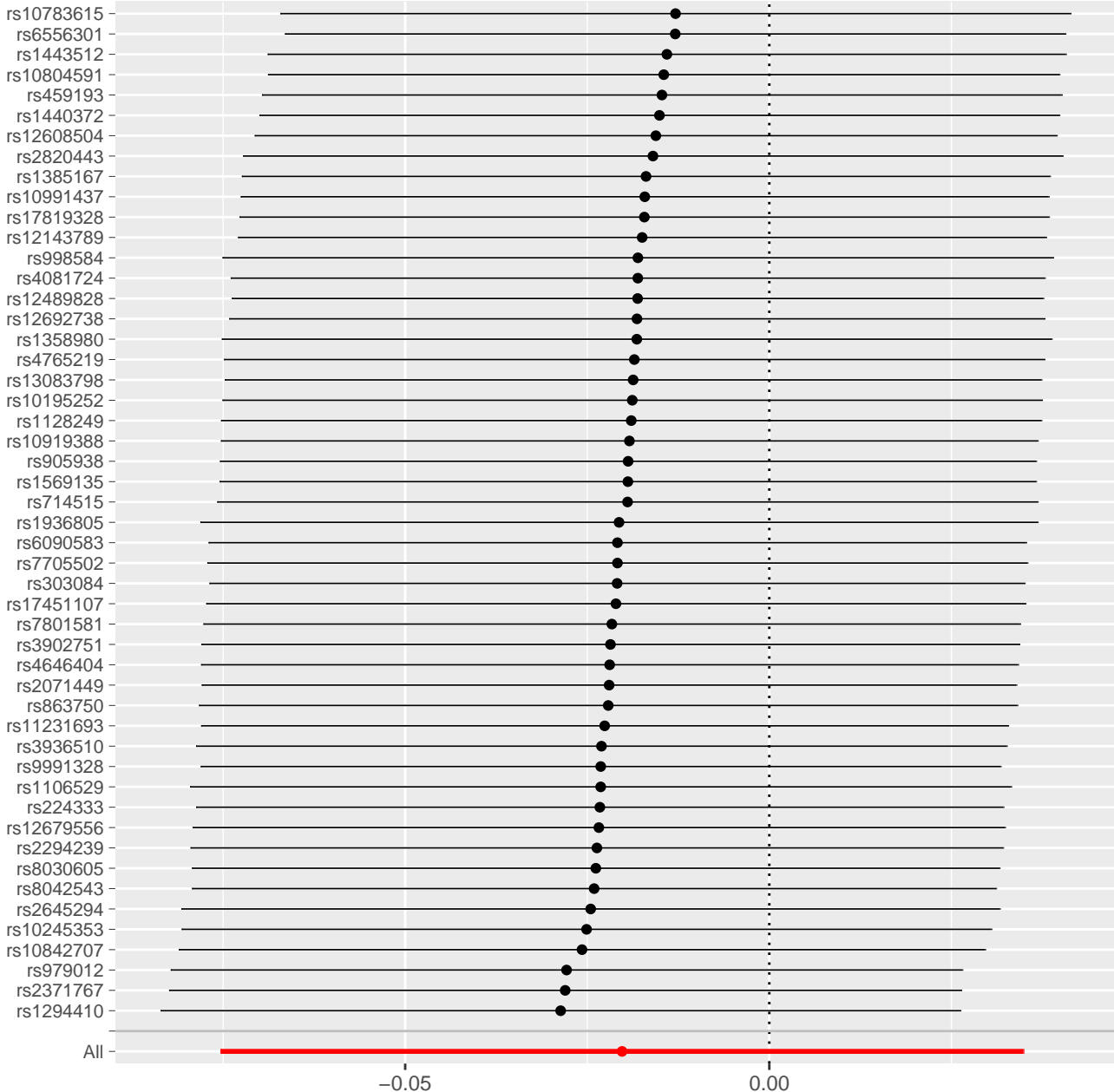'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11538 || id:531'

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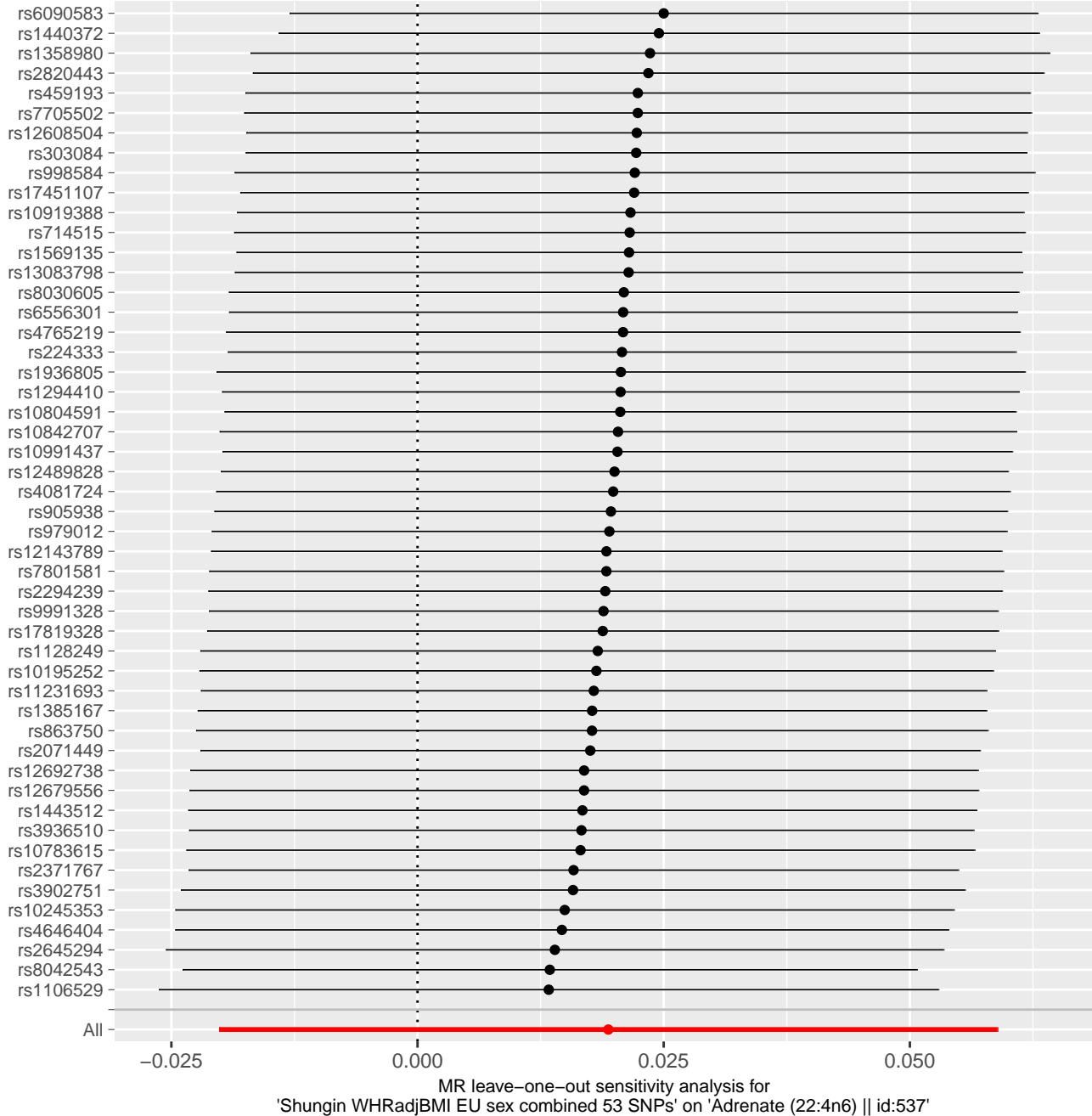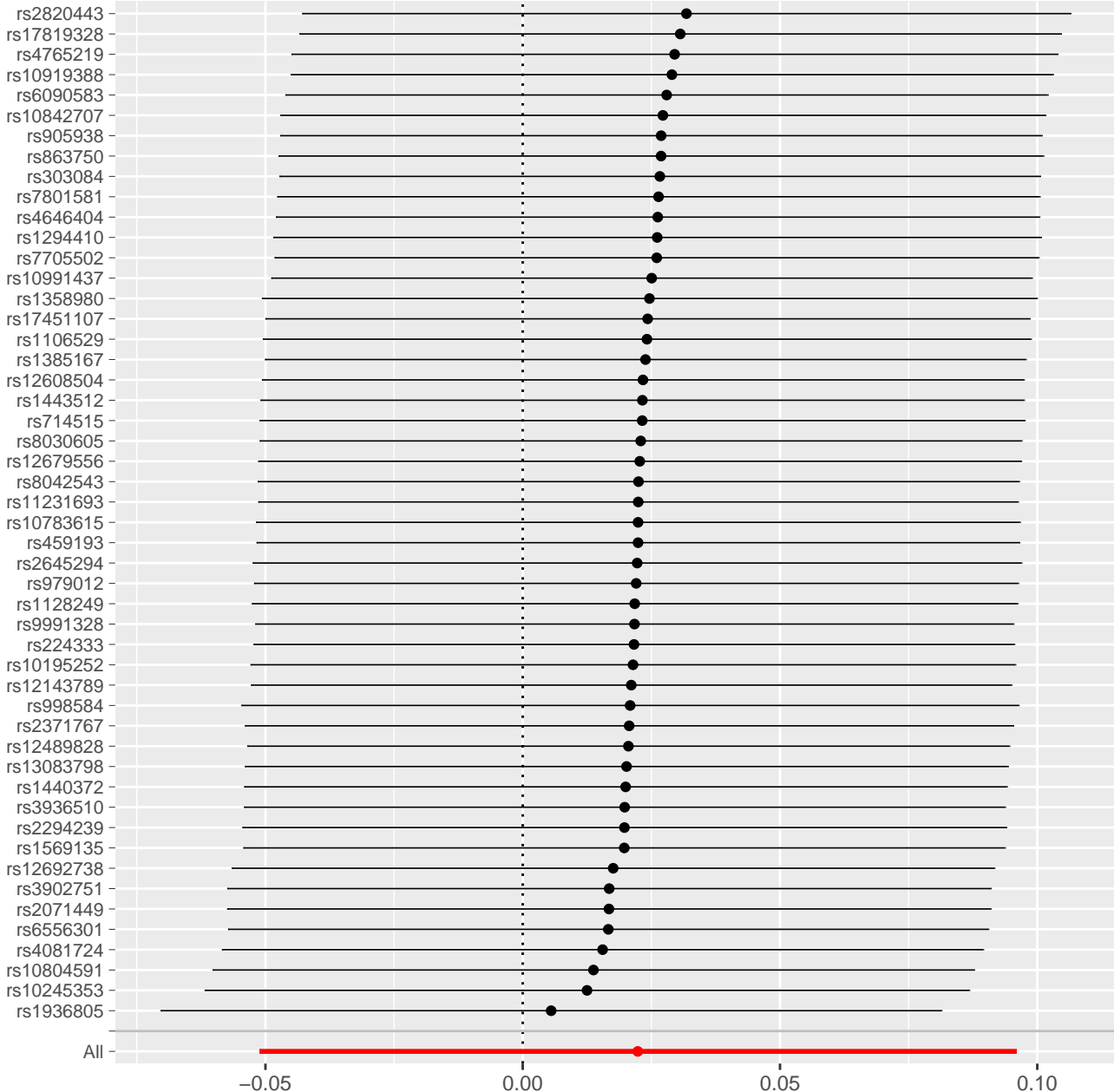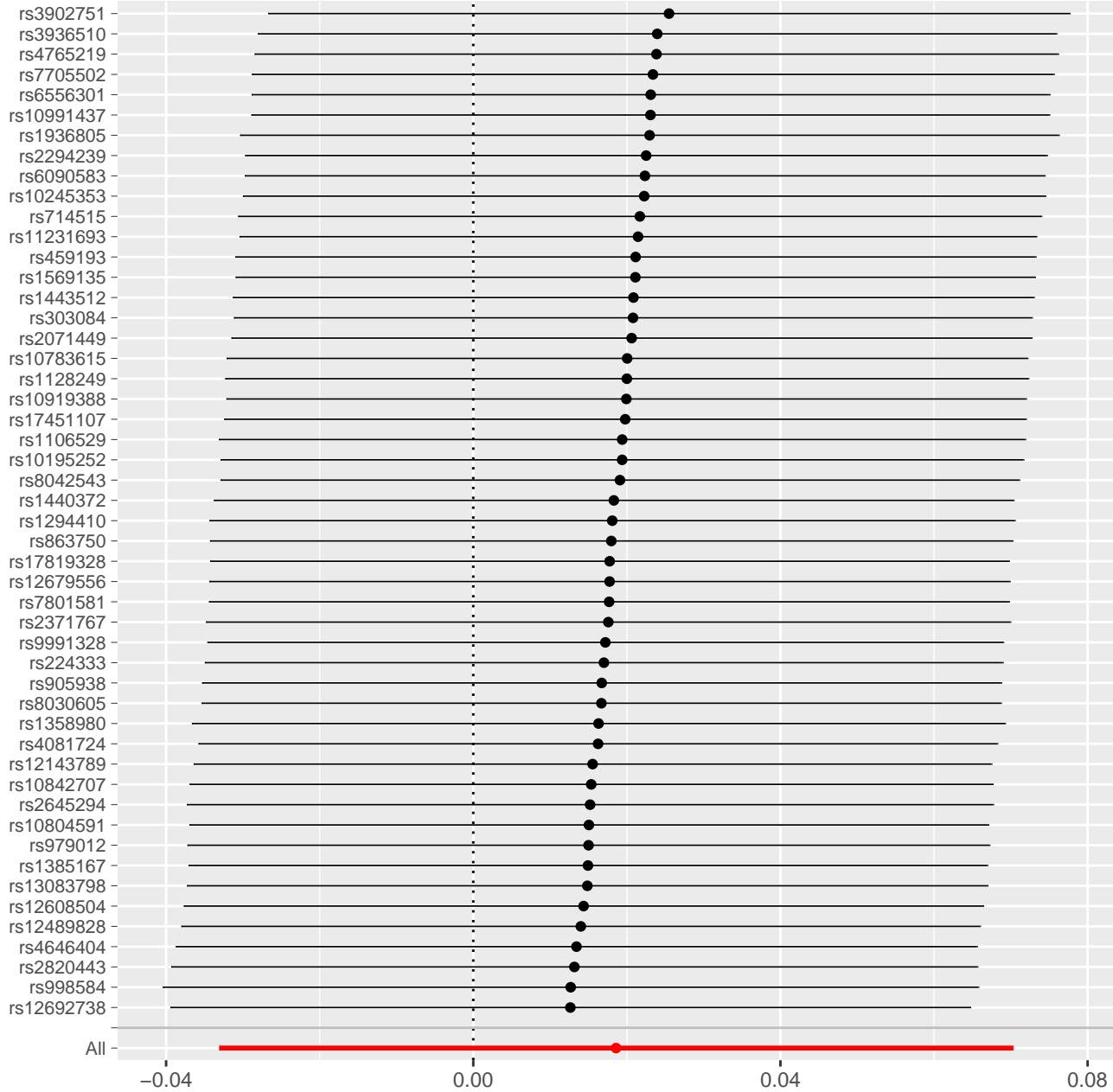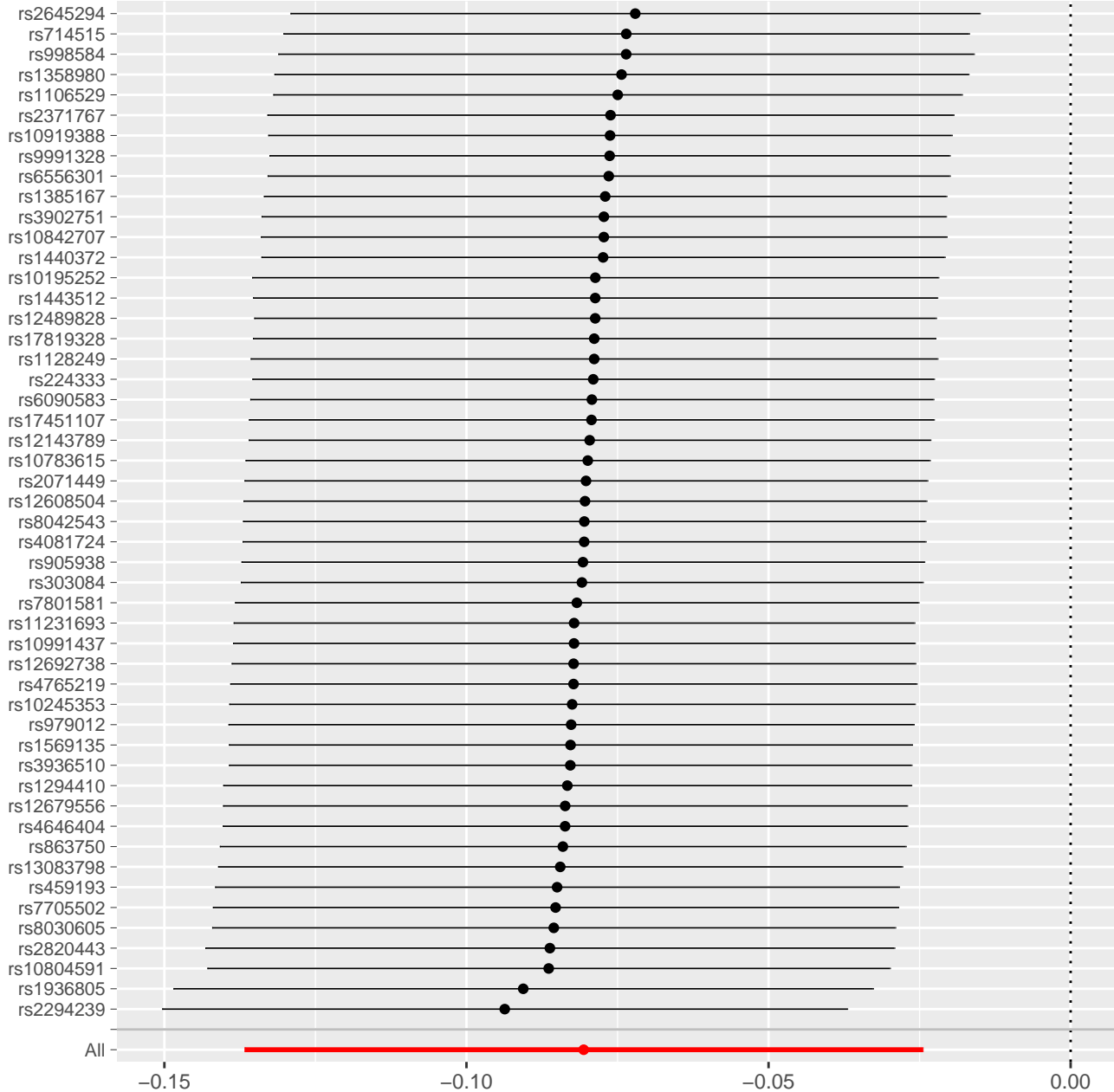'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11552 || id:535'

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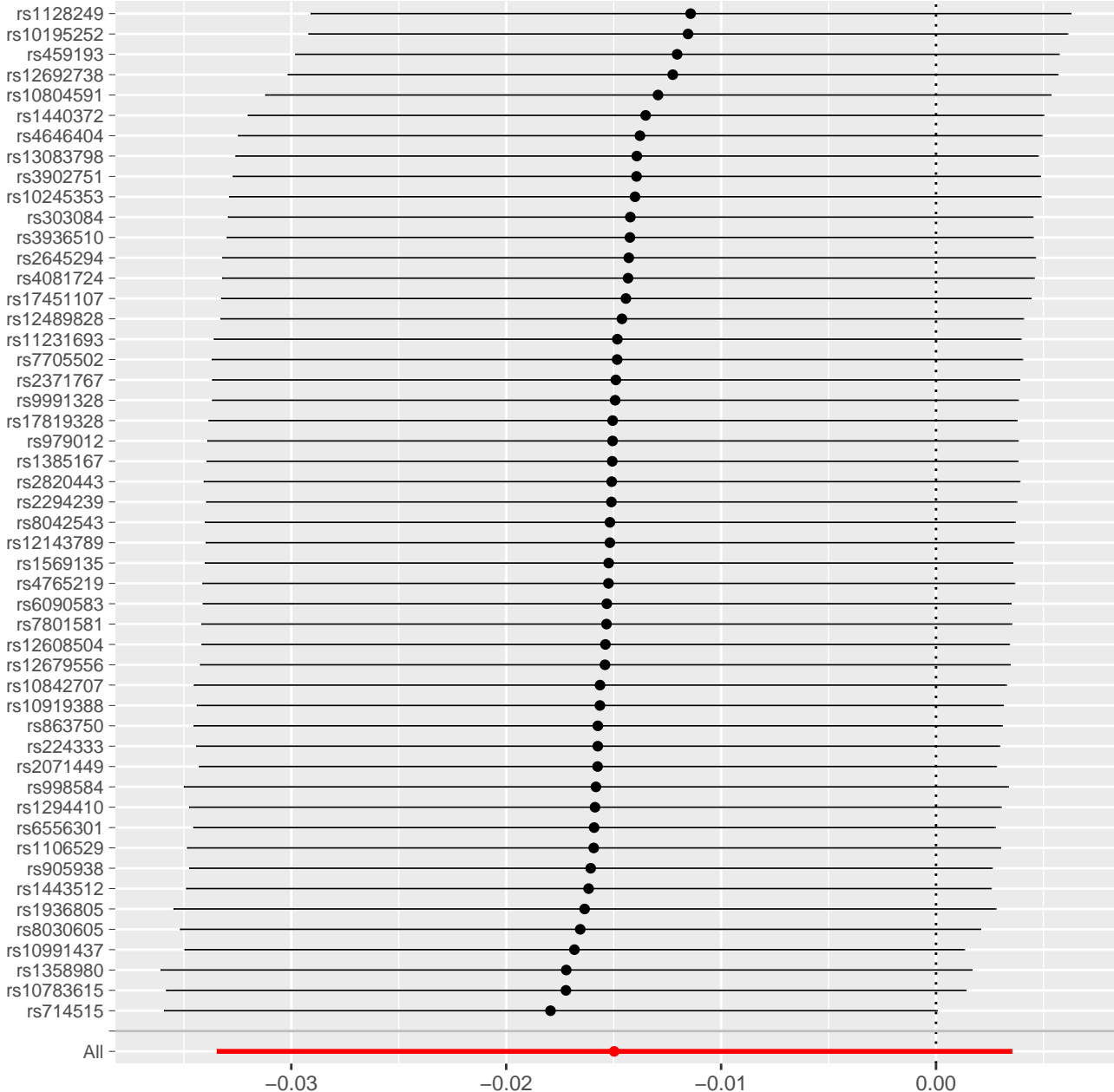'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Homostachydrine* || id:538'

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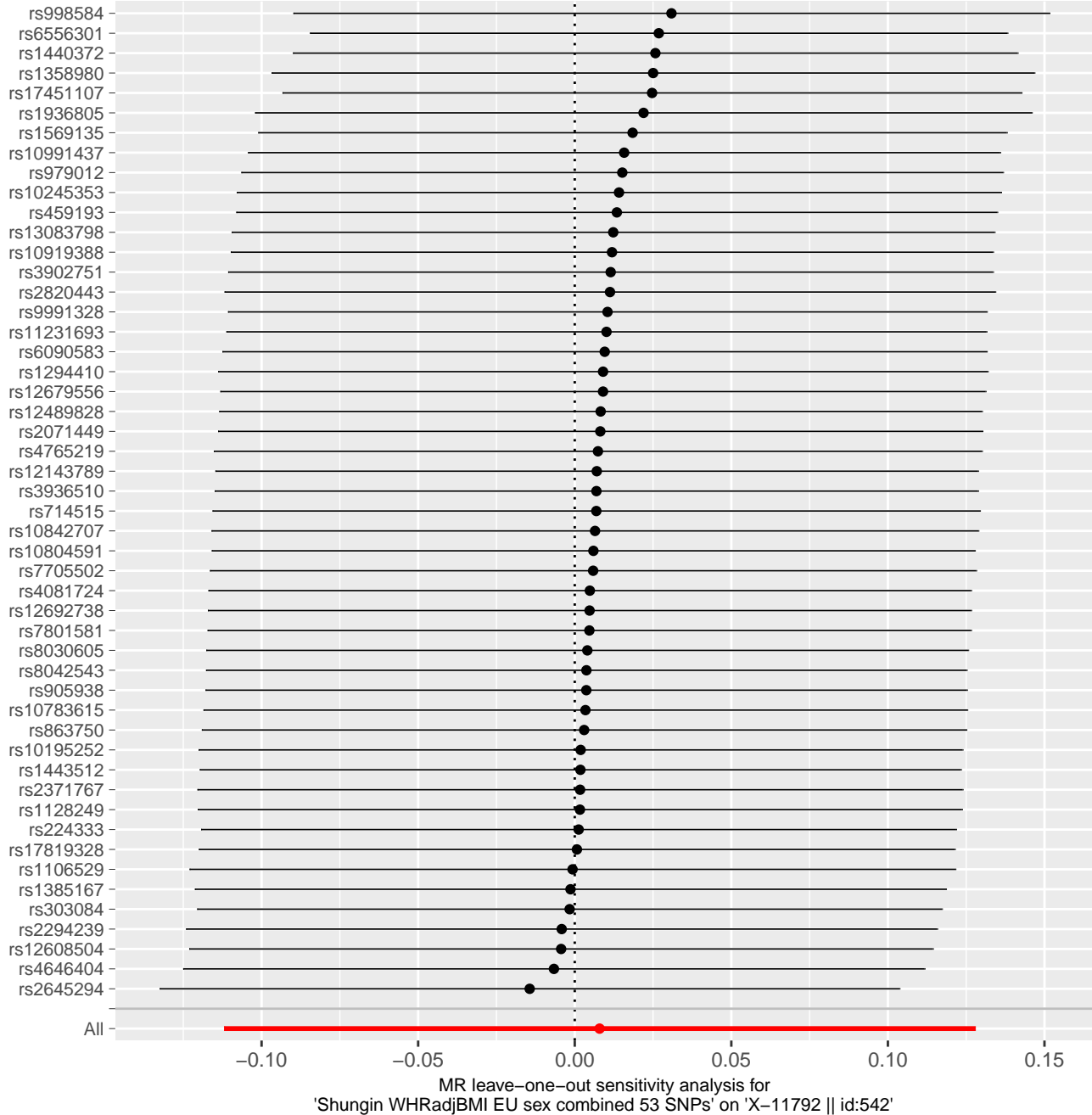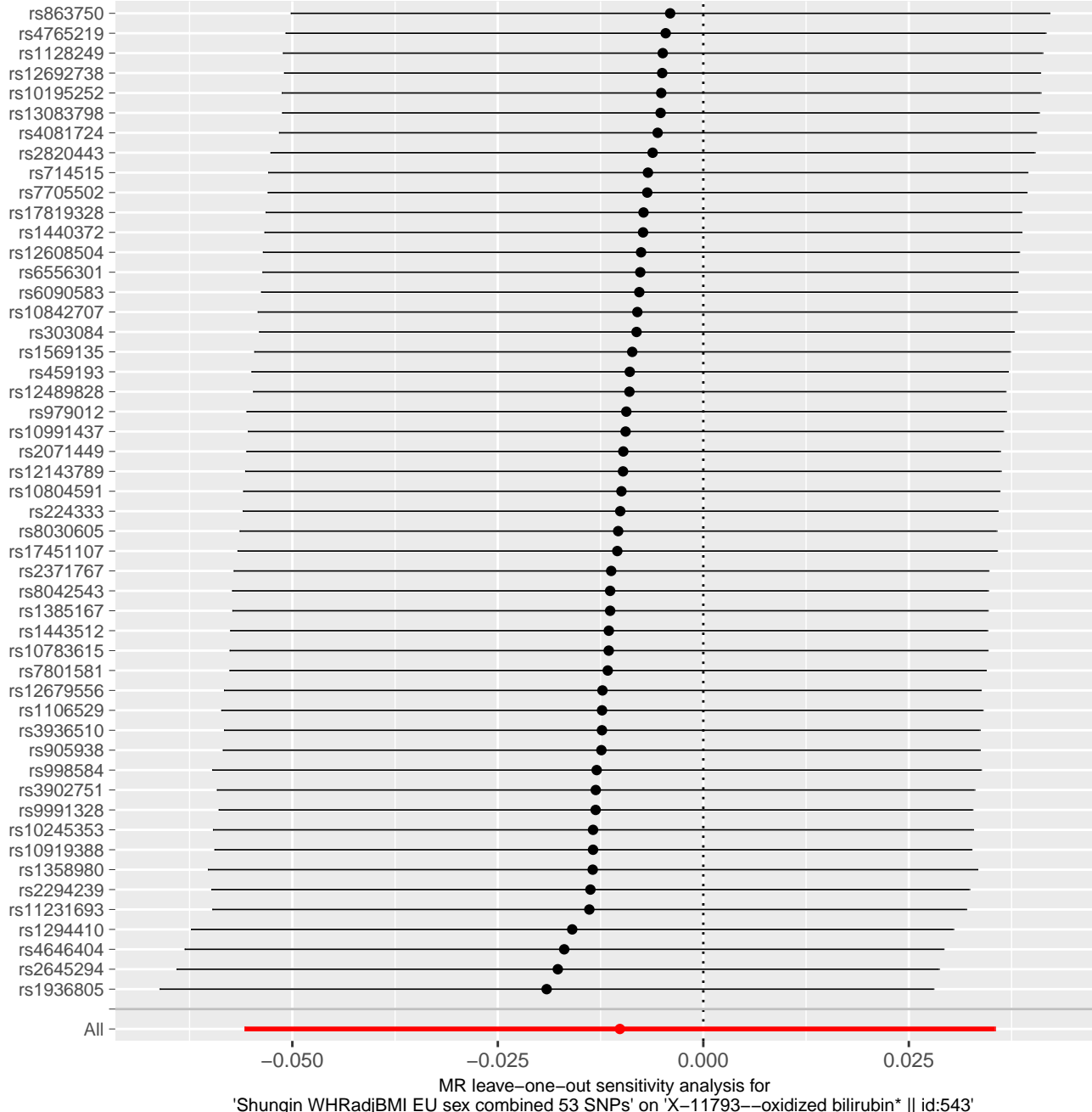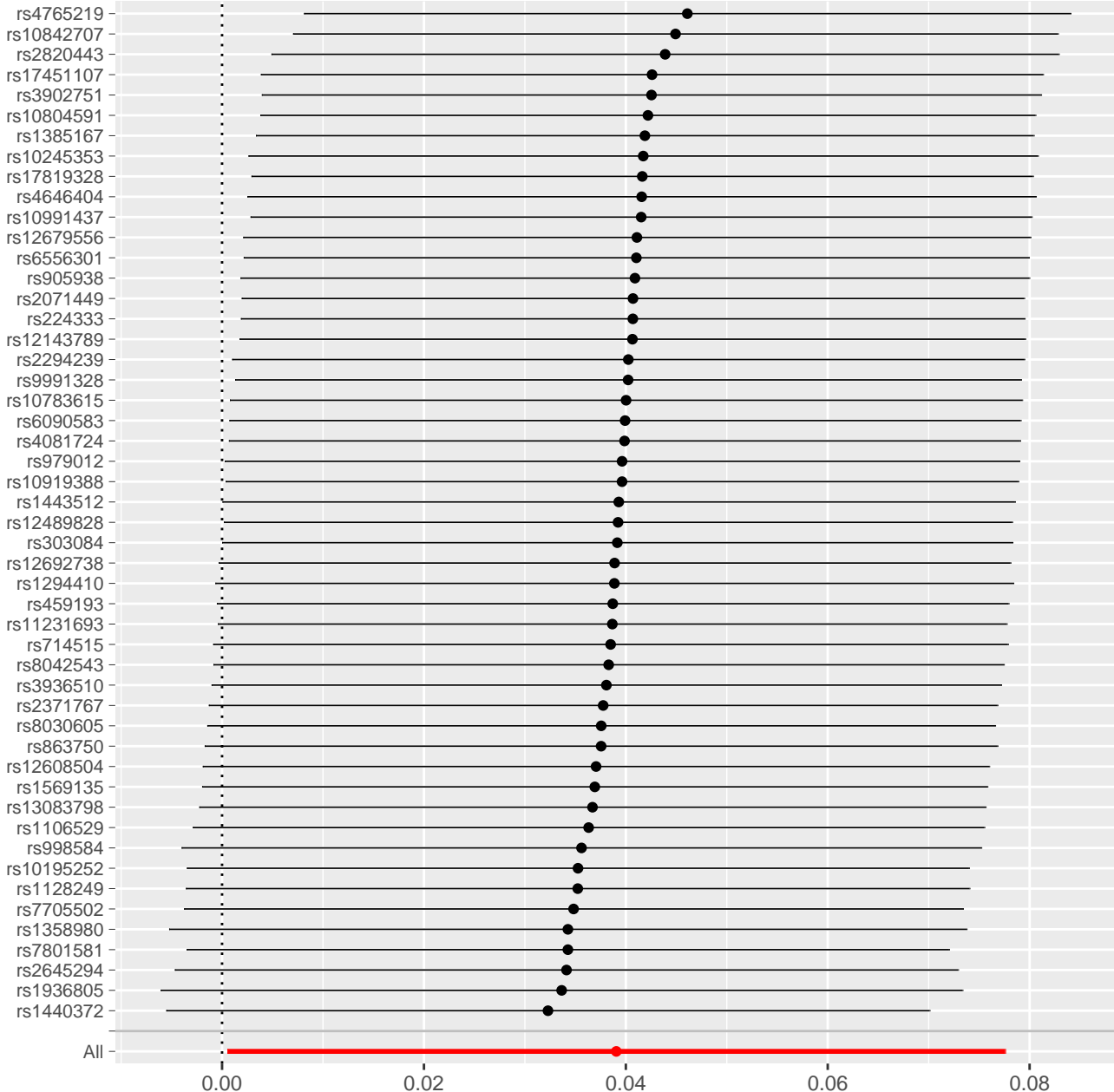
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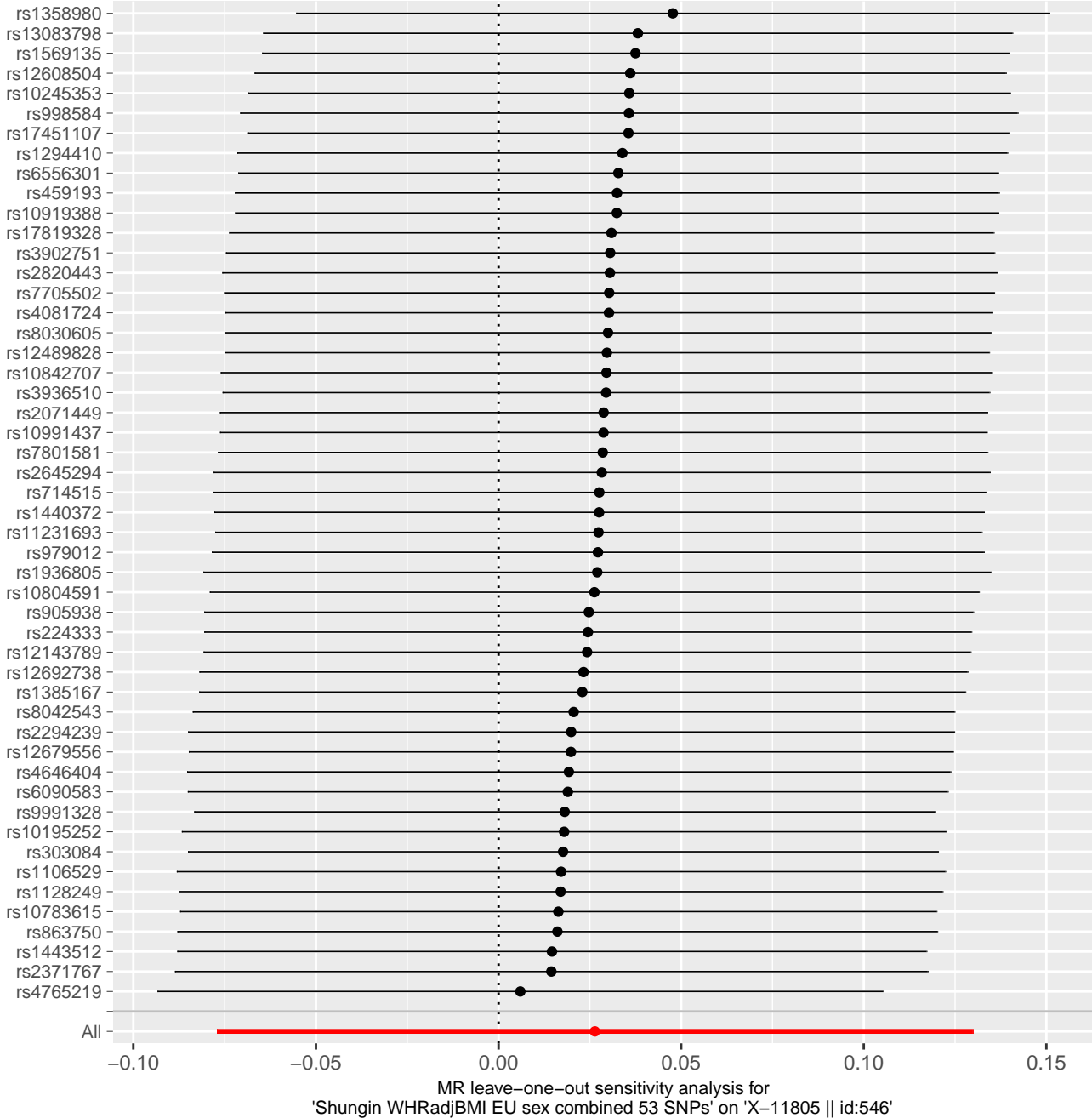'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11793−−oxidized bilirubin* || id:543'
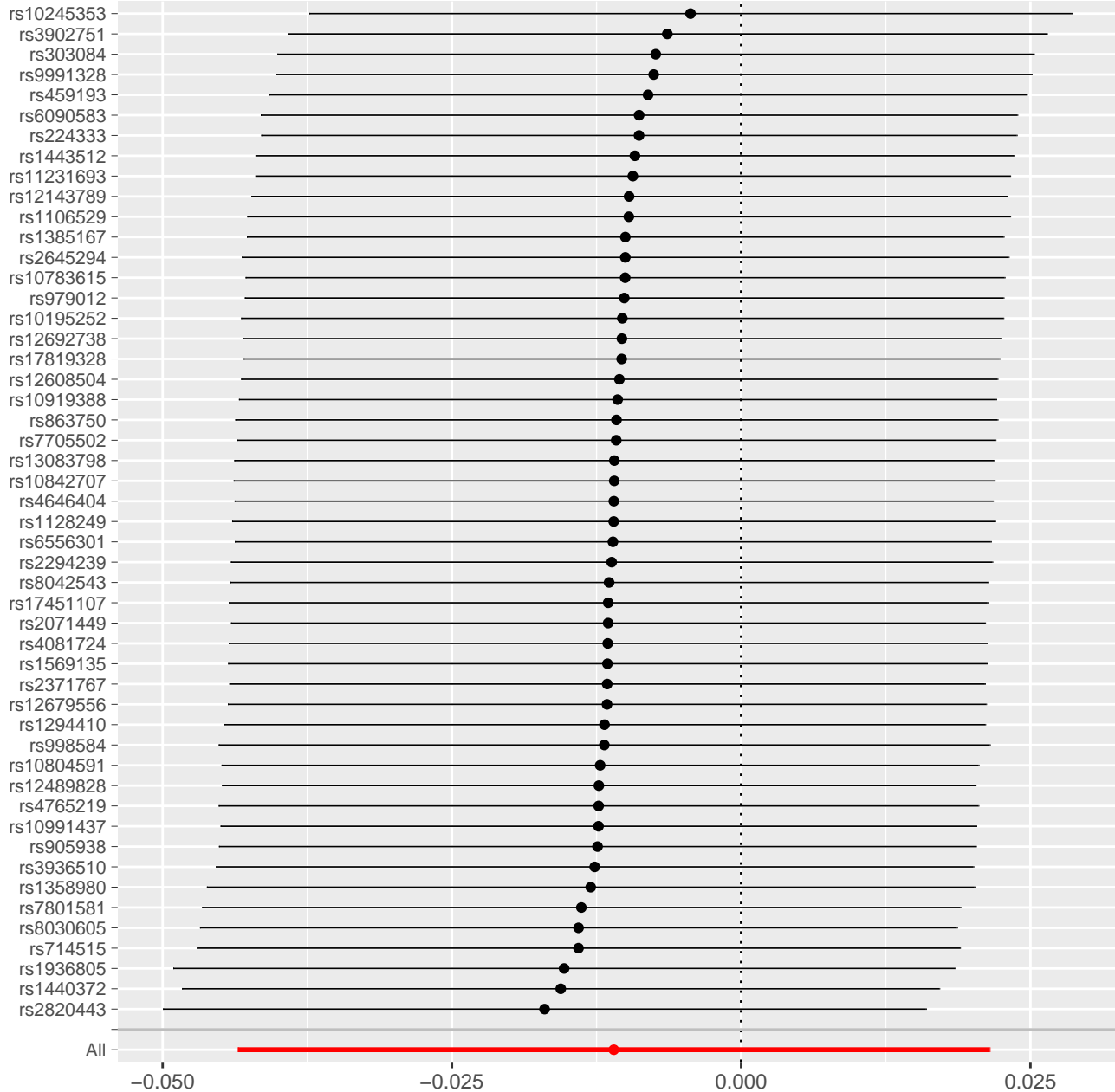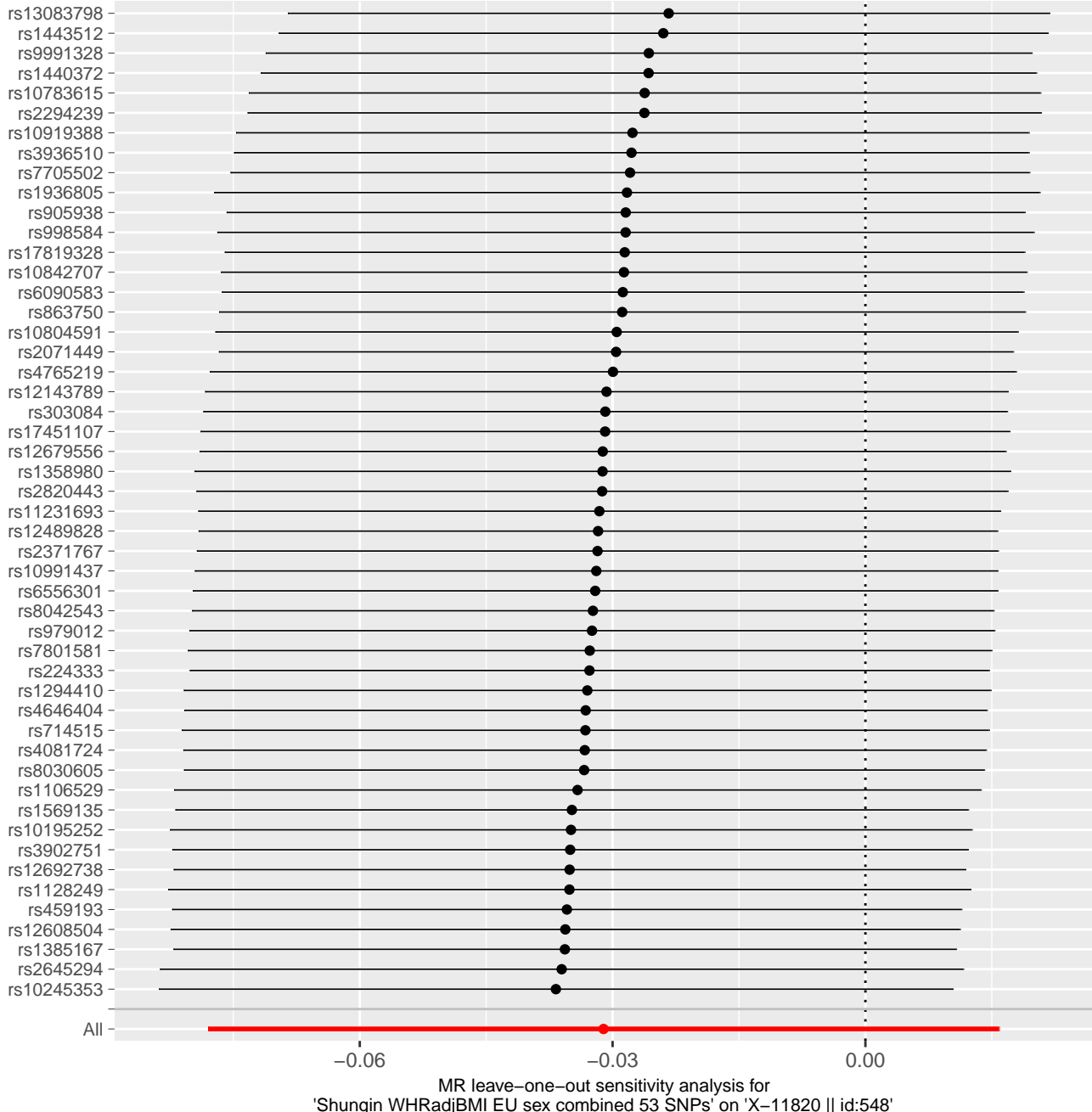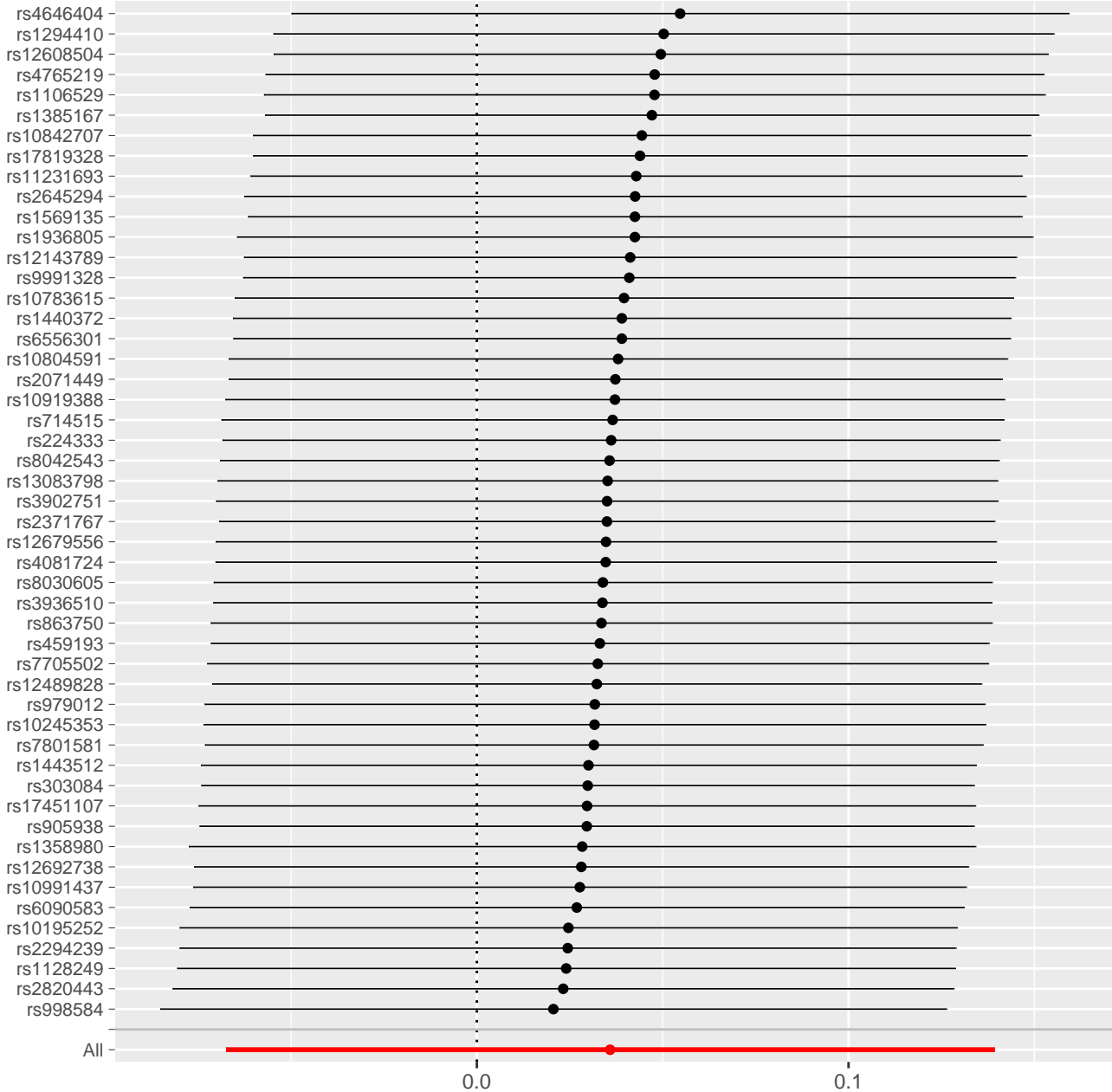
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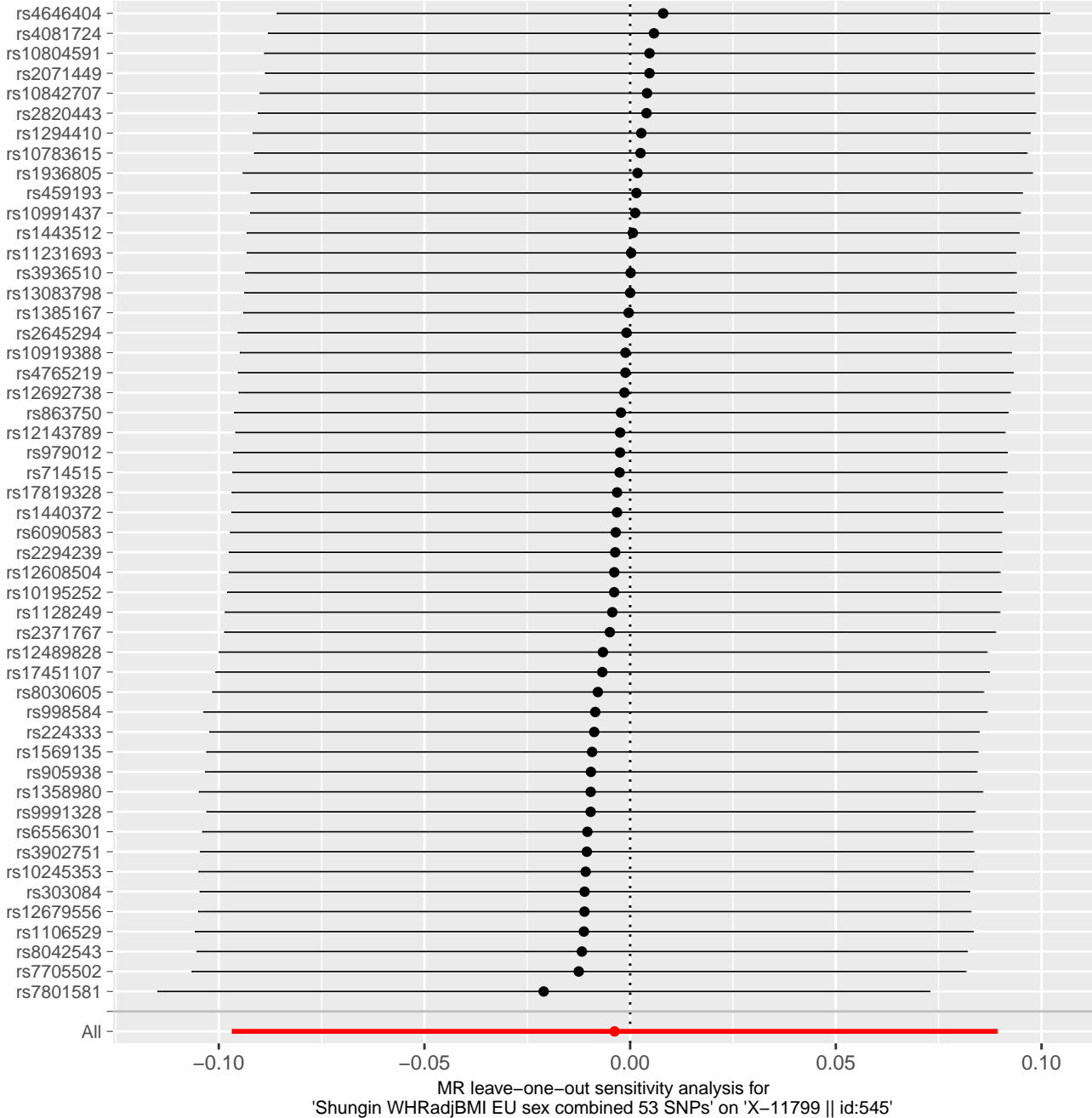
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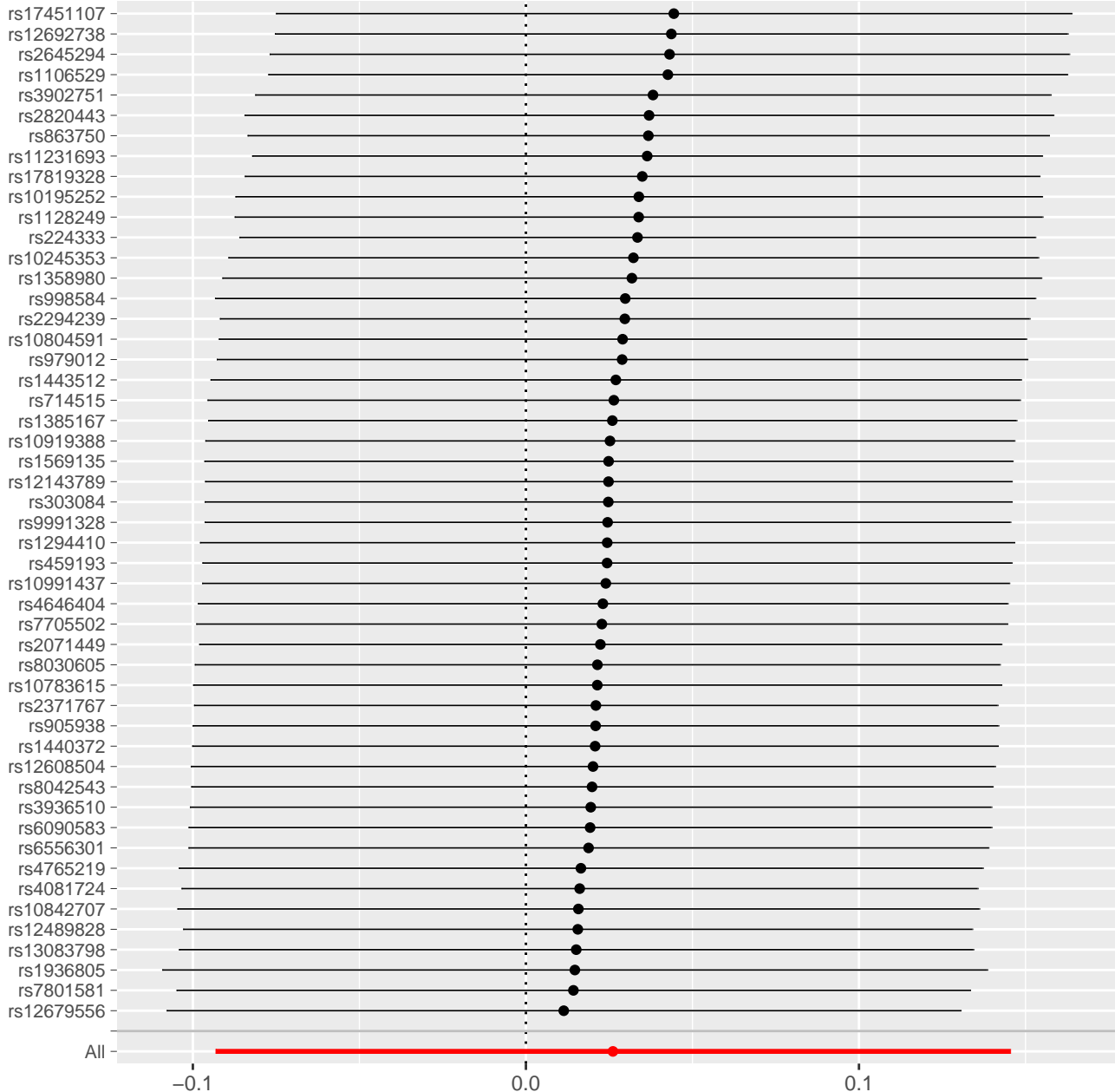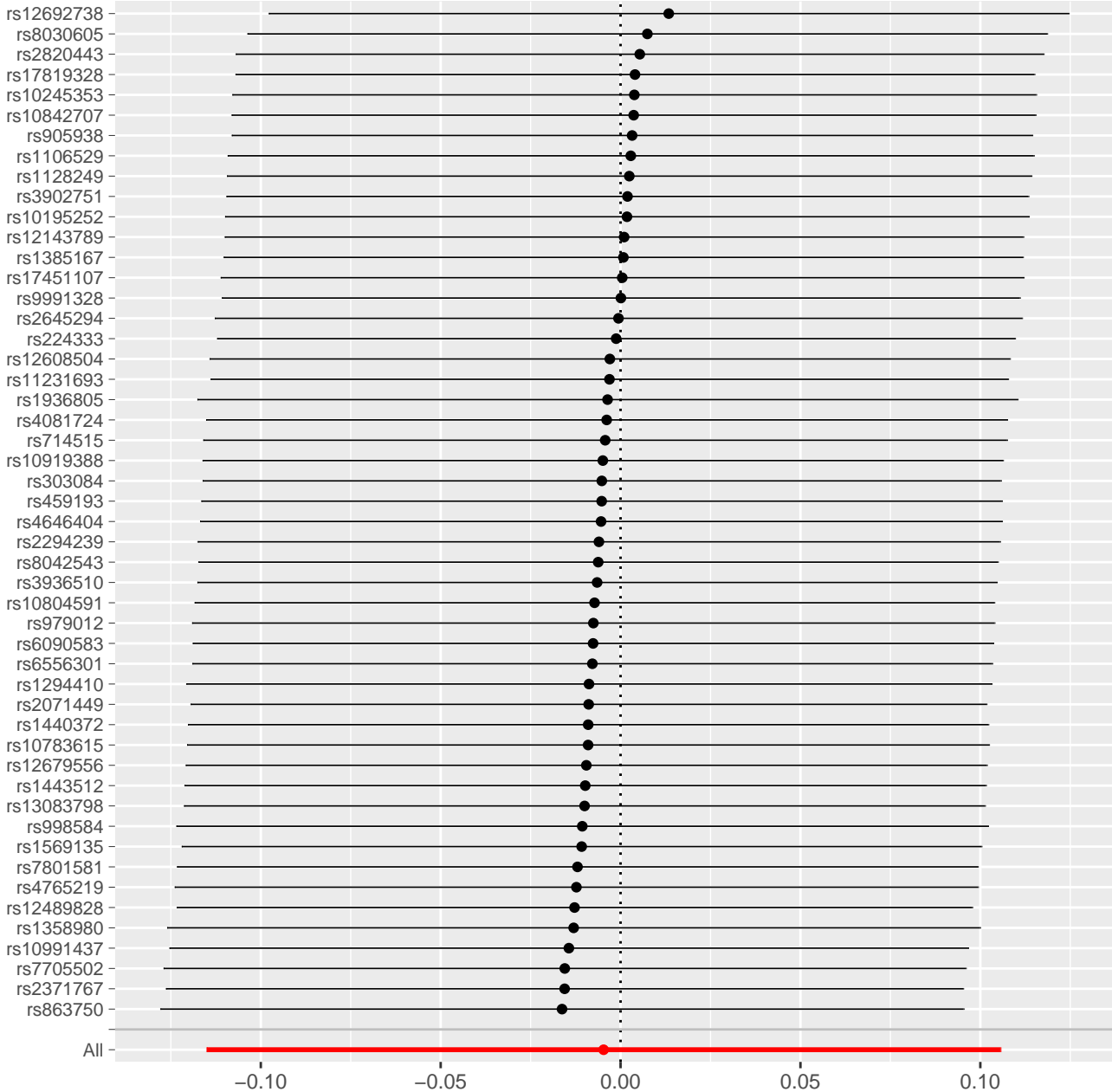'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11805 || id:546'

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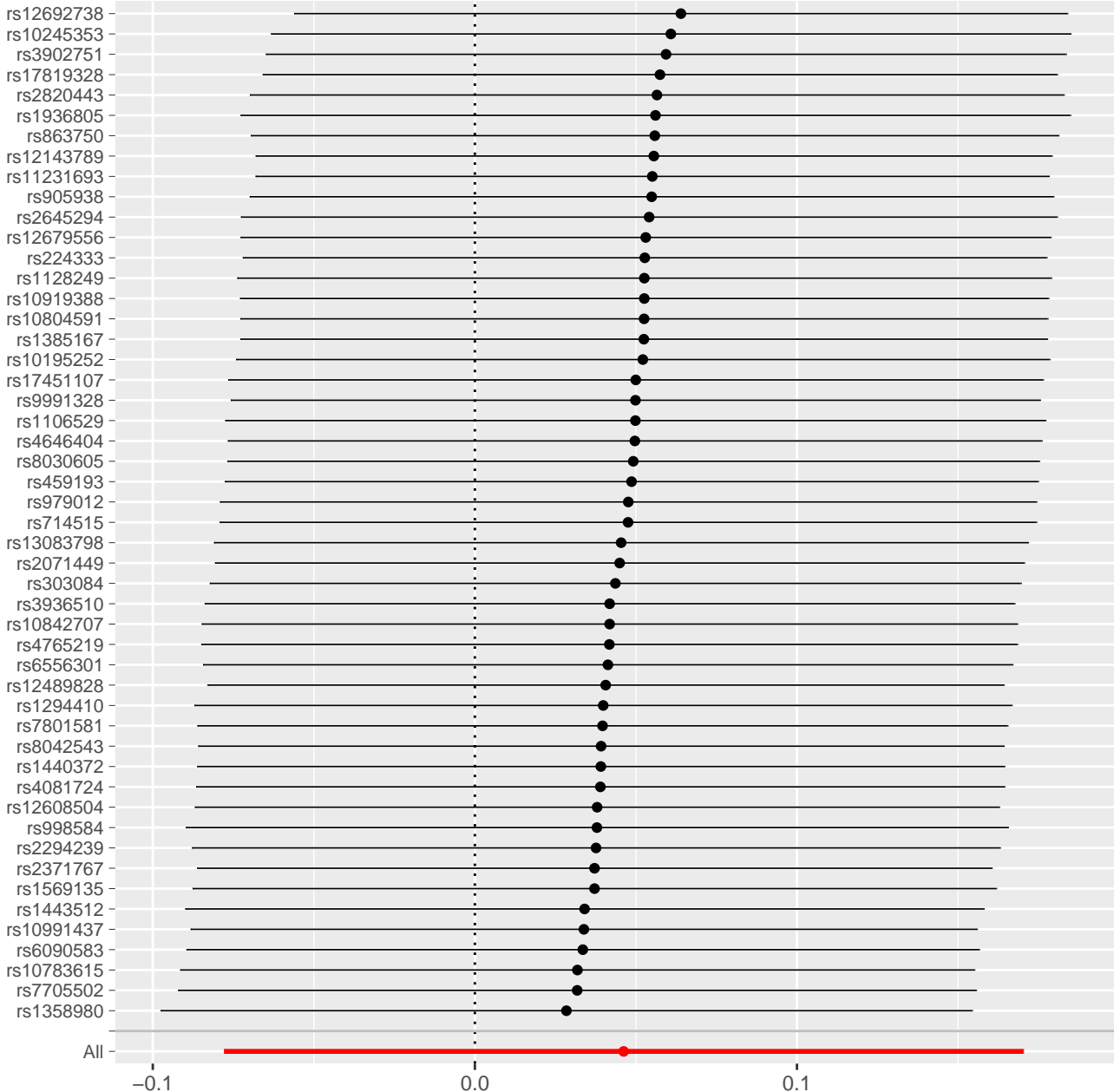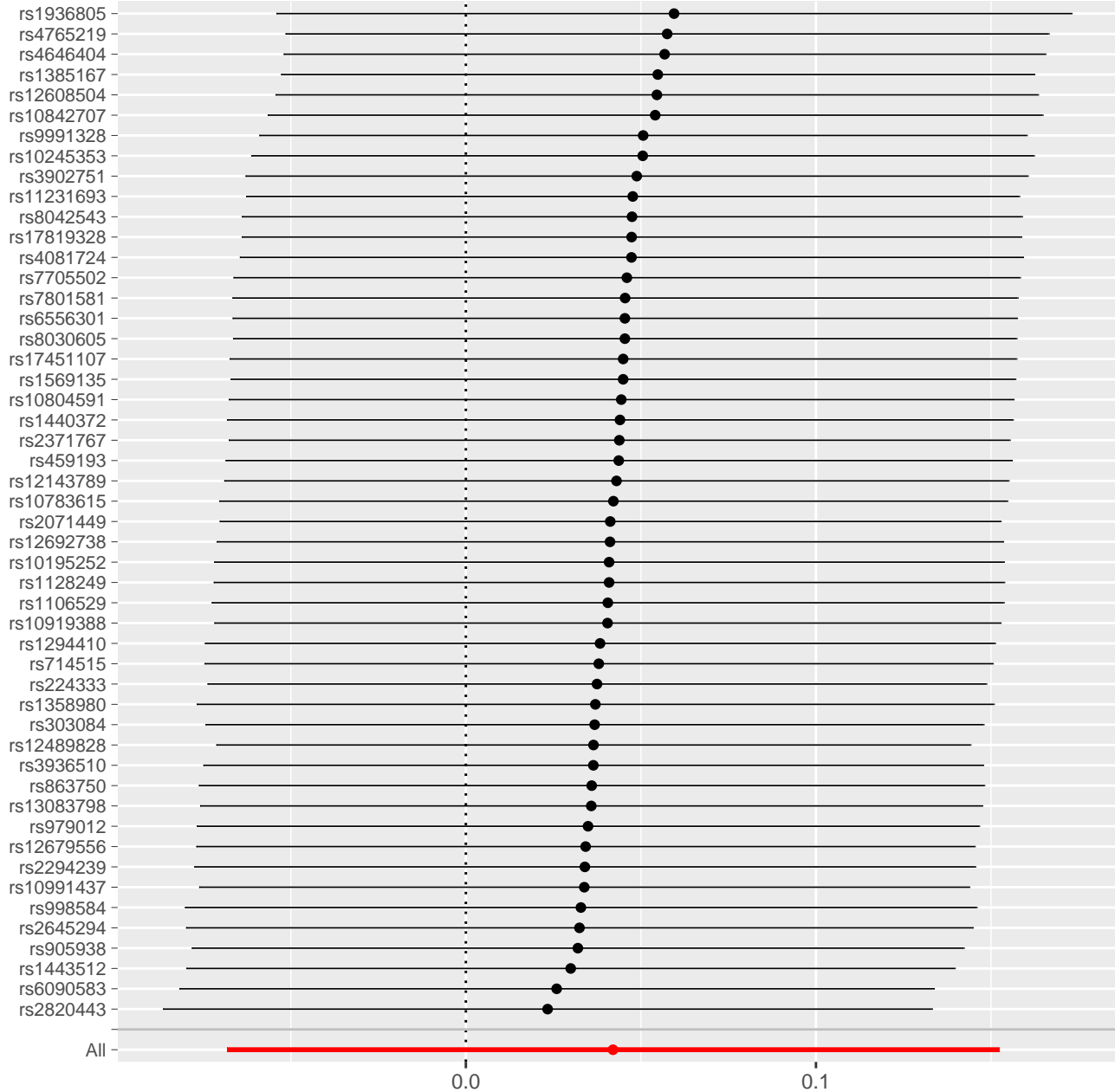'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11843 || id:549'

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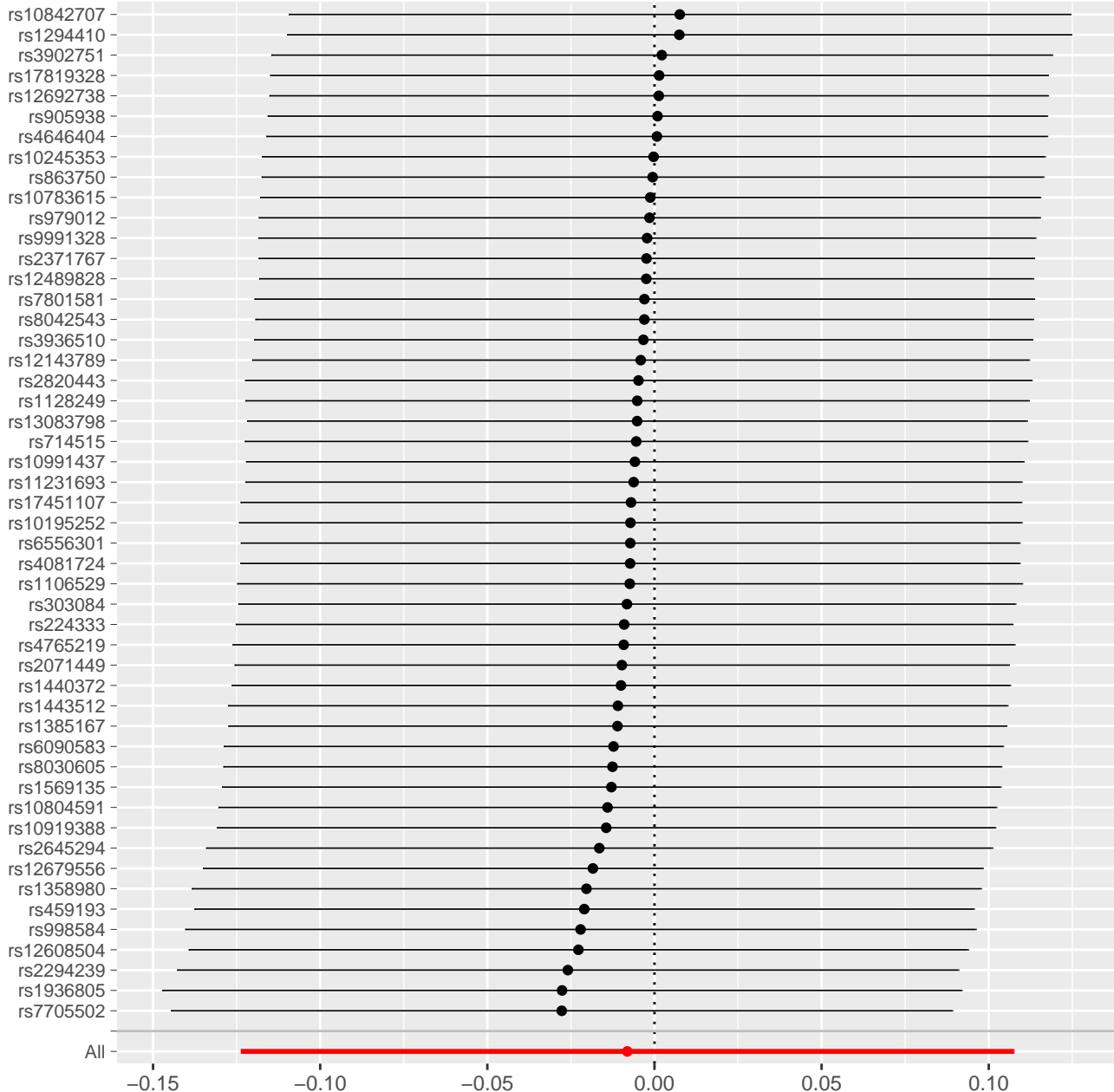'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11845 || id:550'

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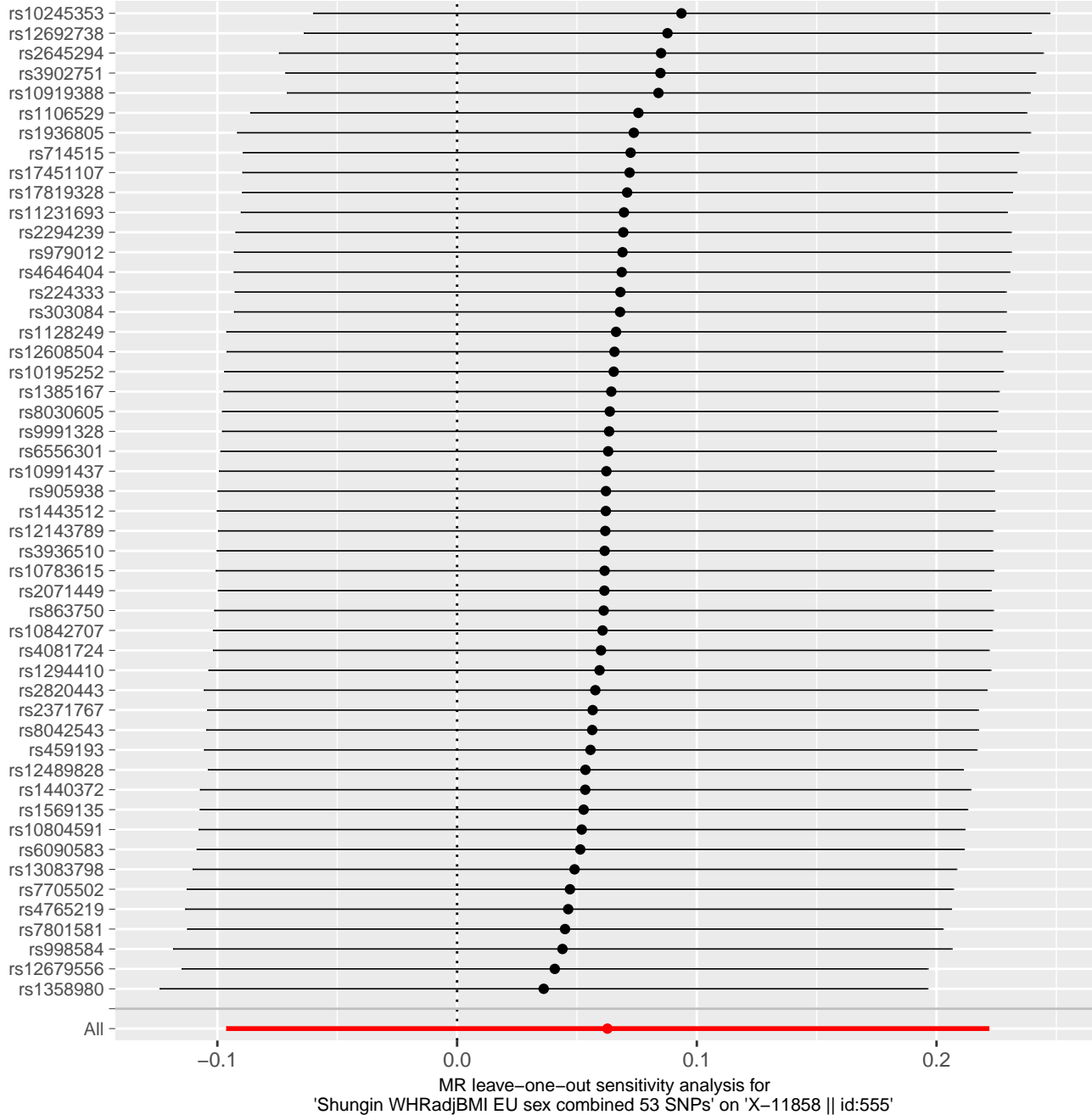'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11849 || id:552'
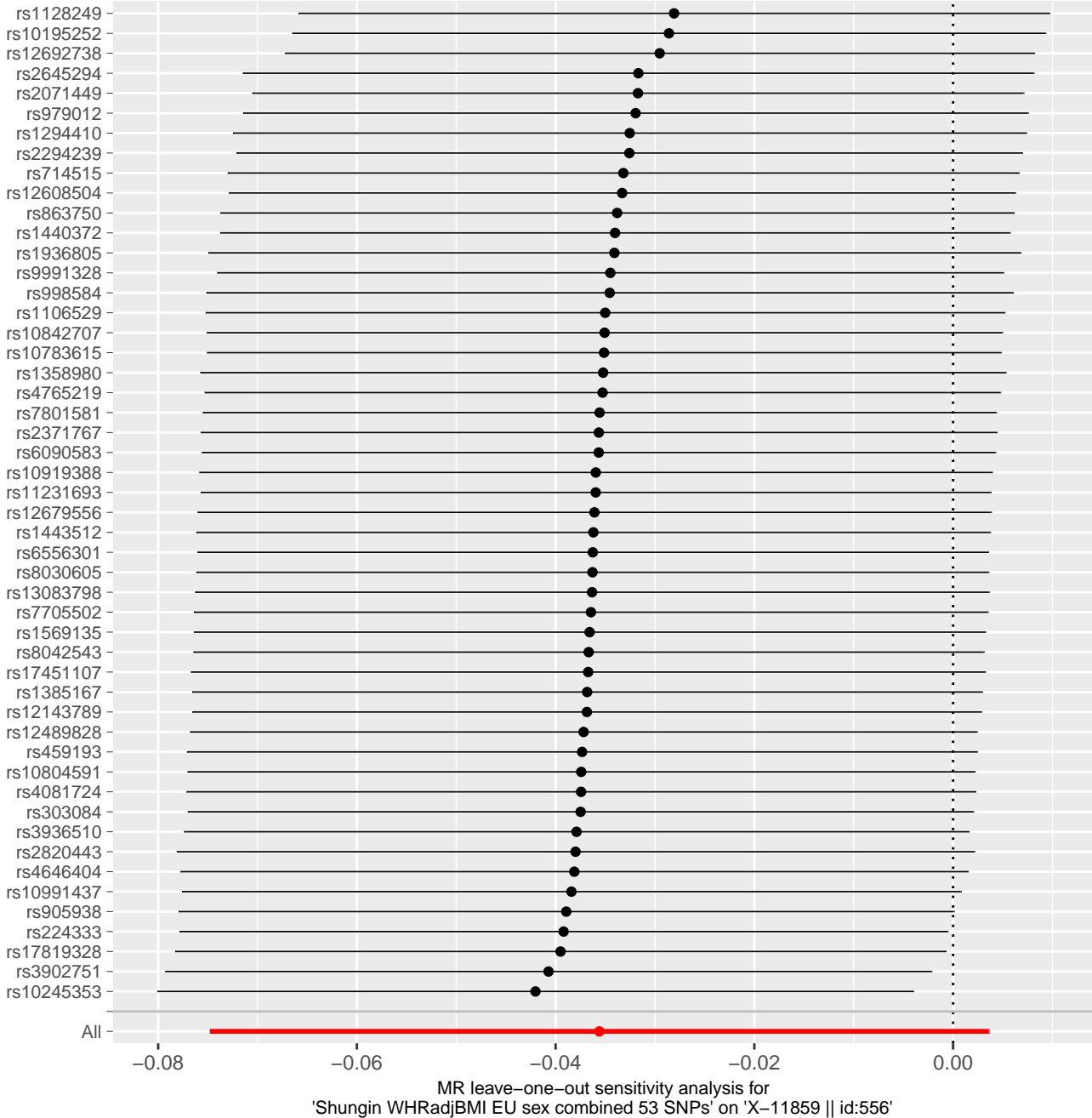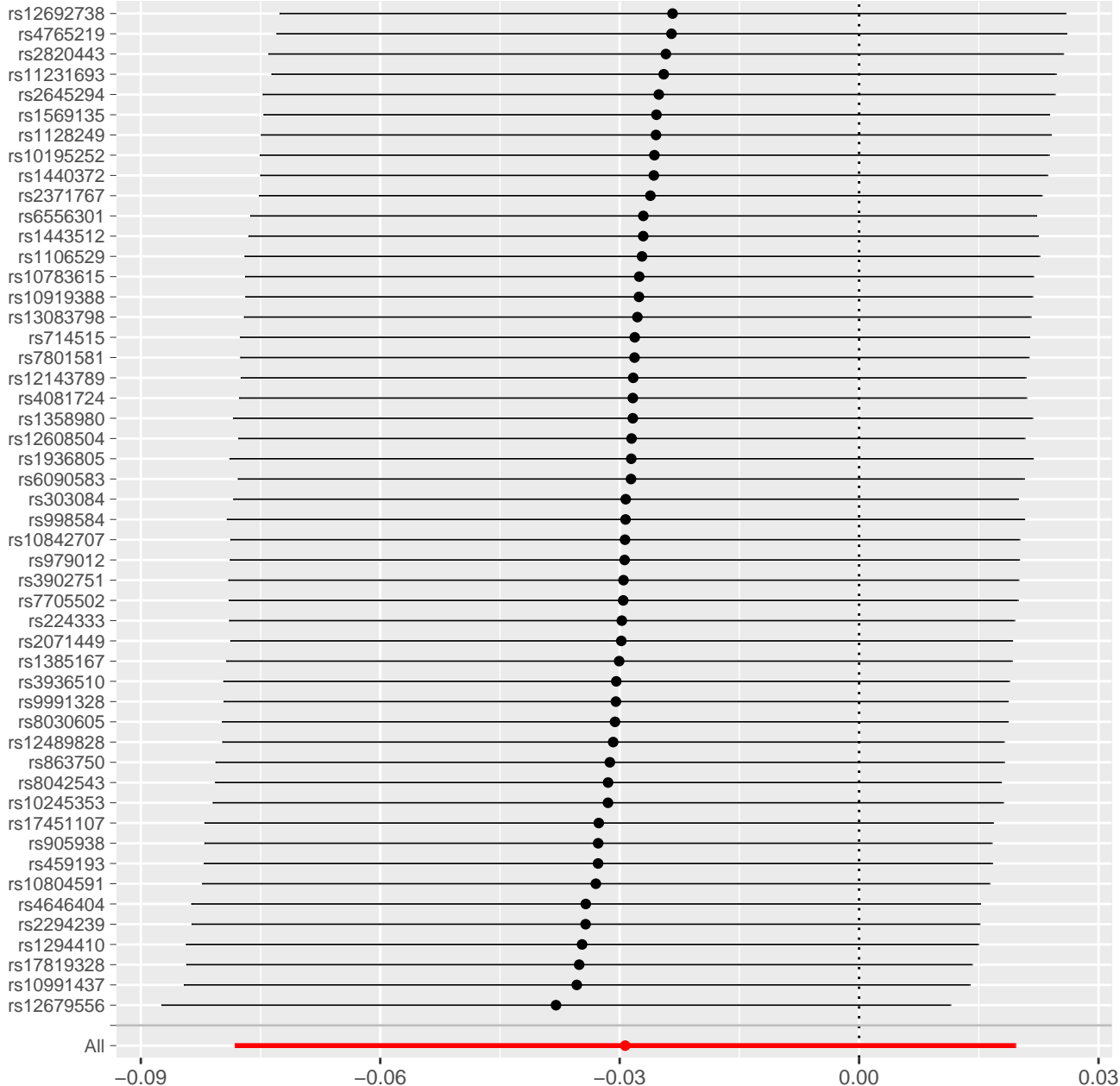
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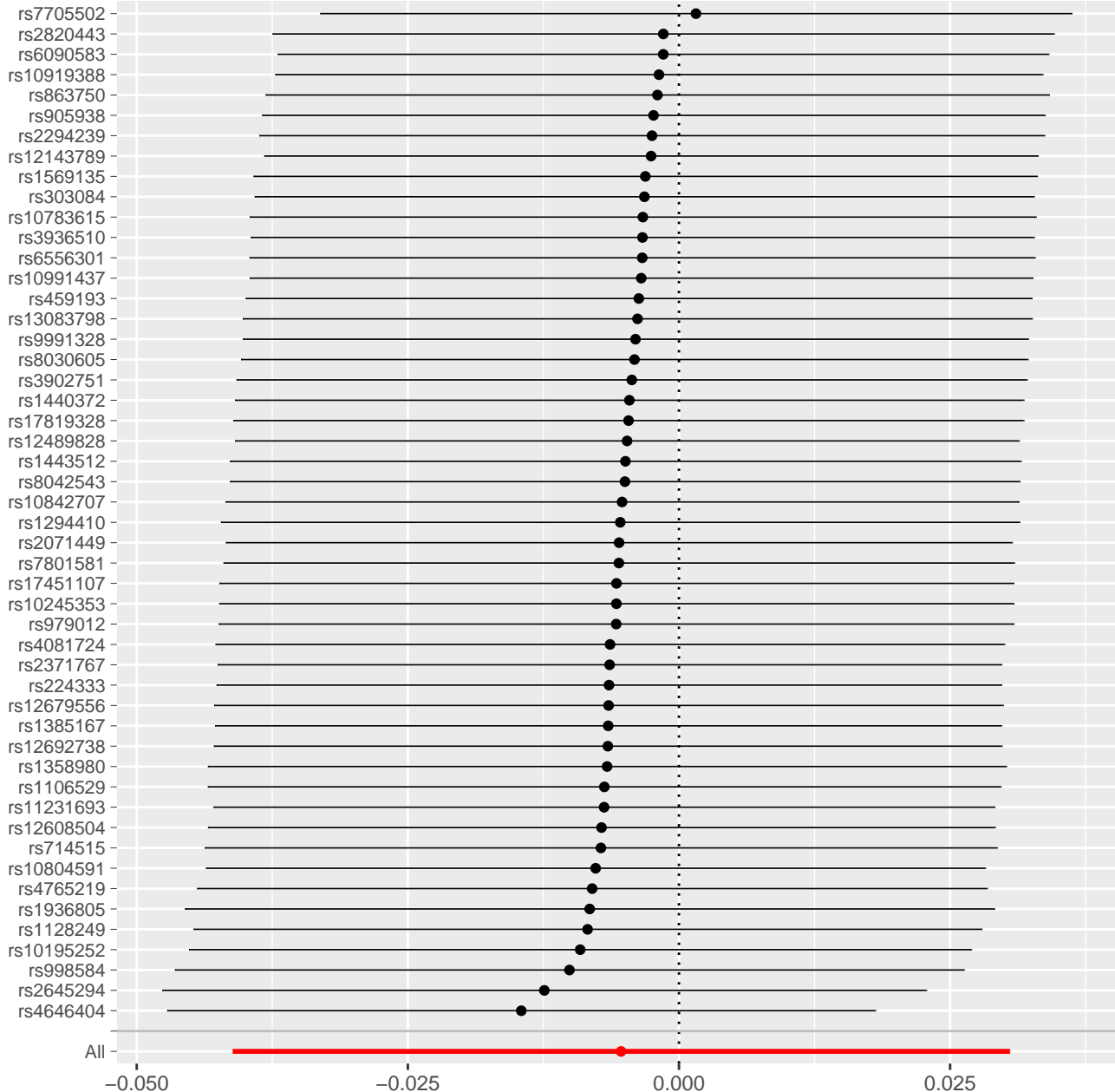'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11858 || id:555'

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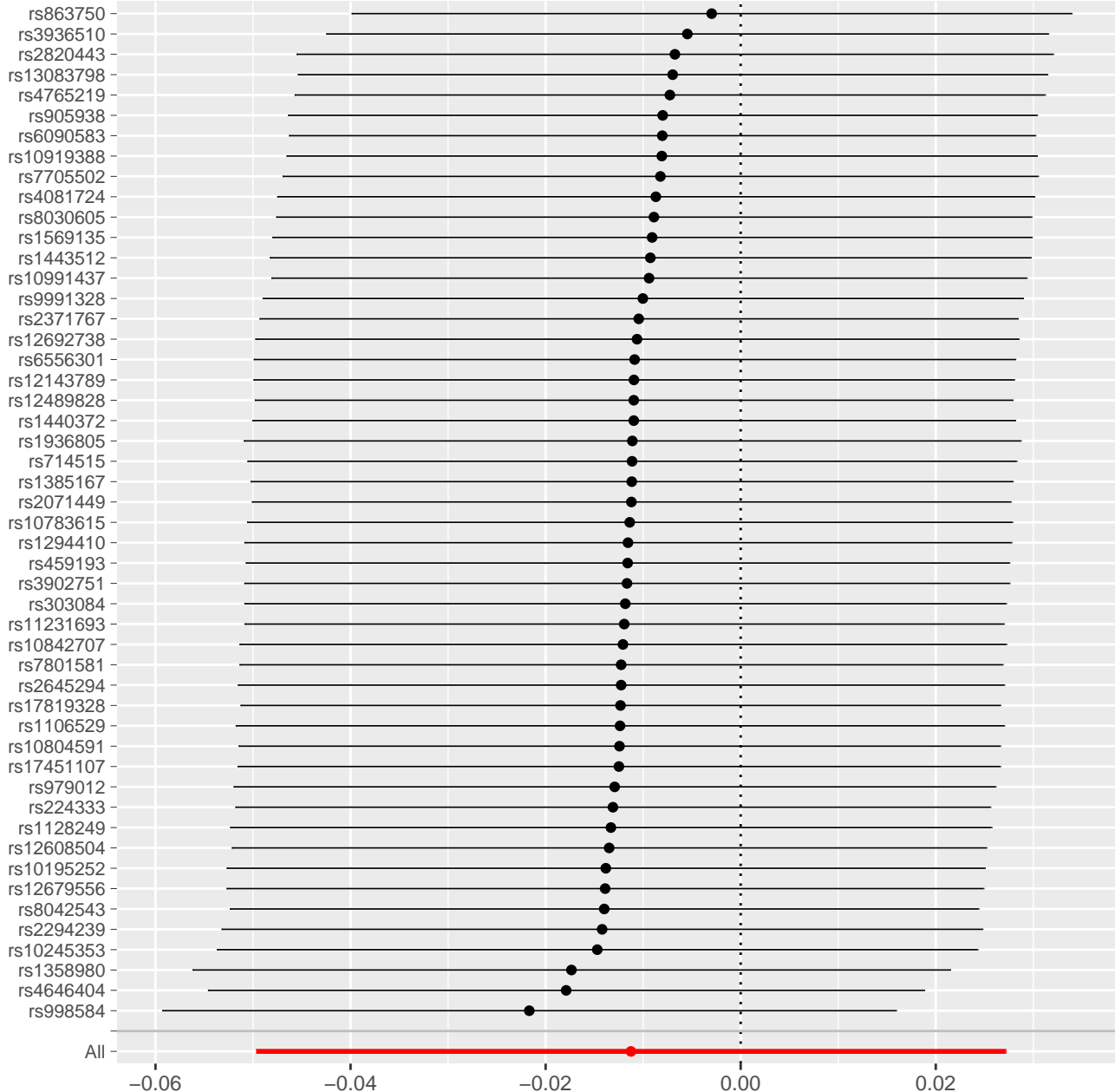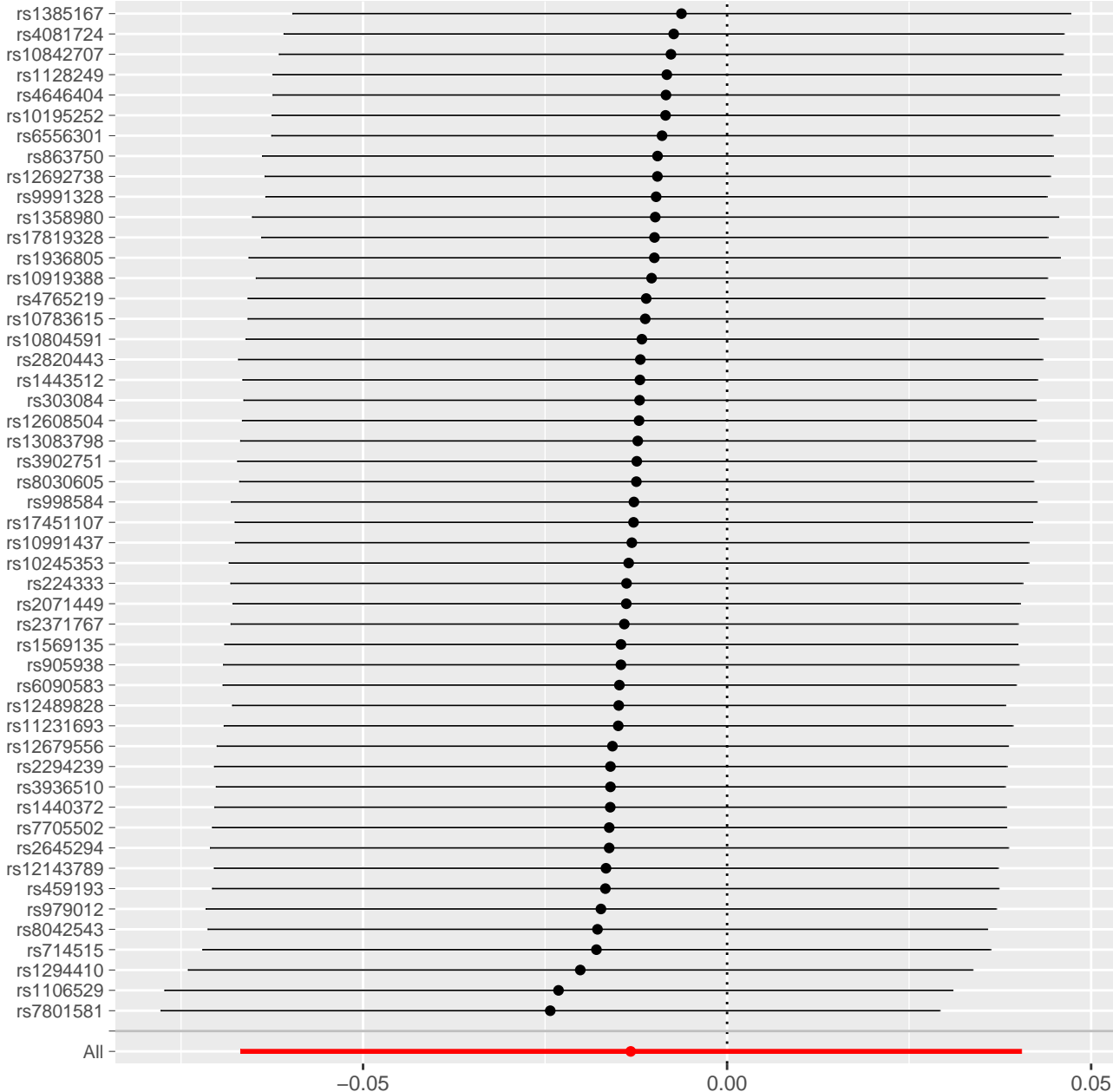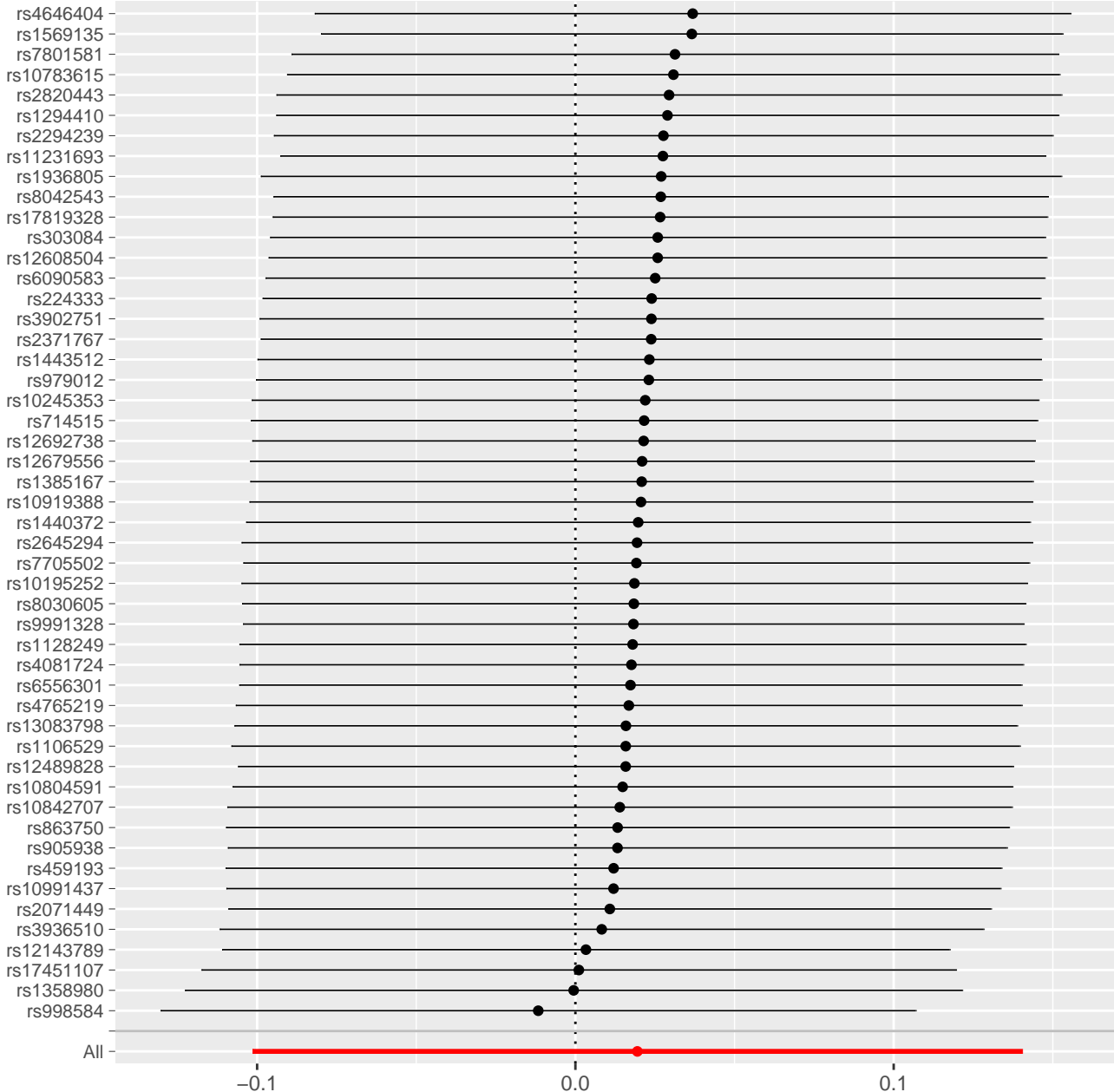'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−11876 || id:557'

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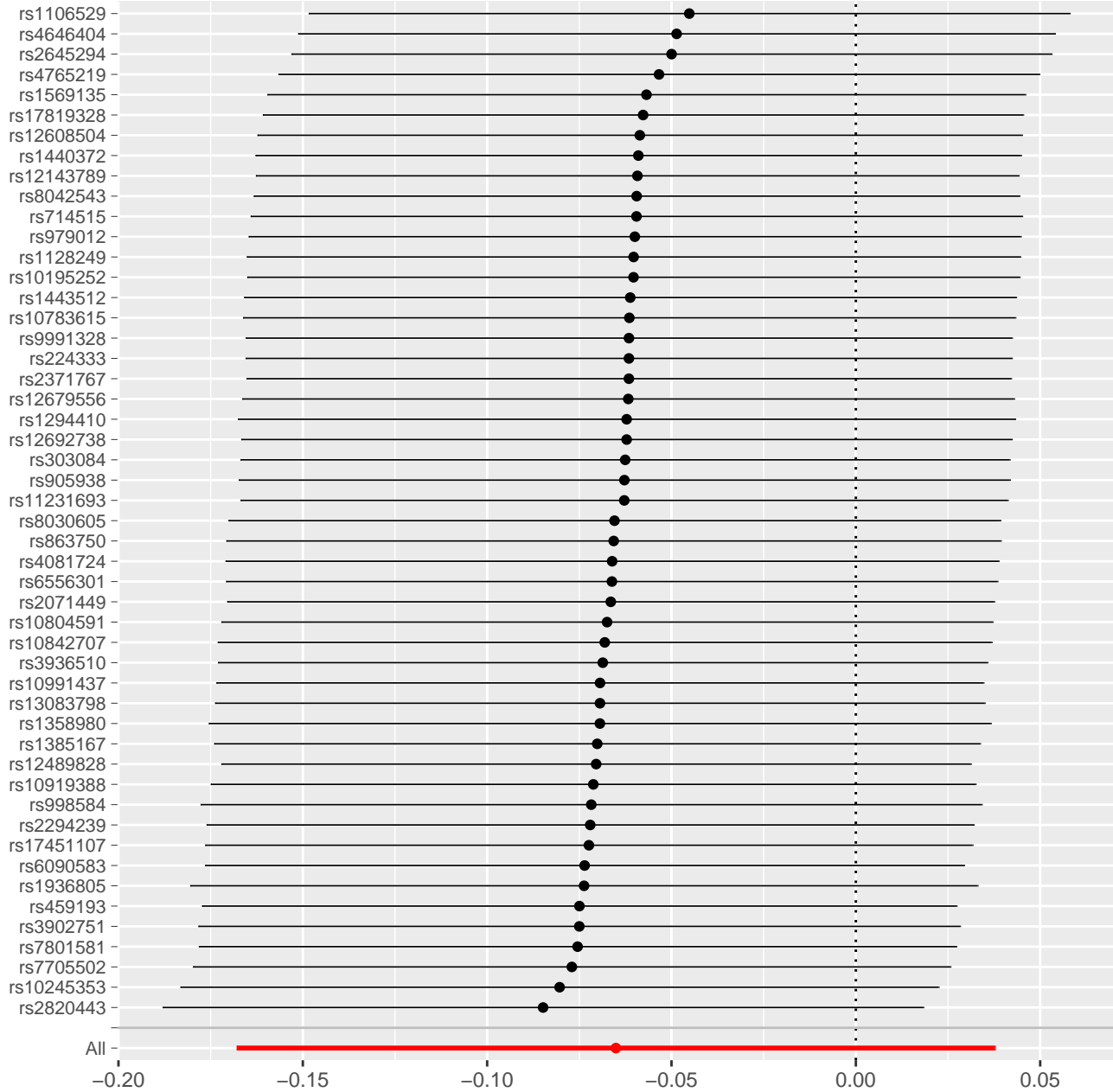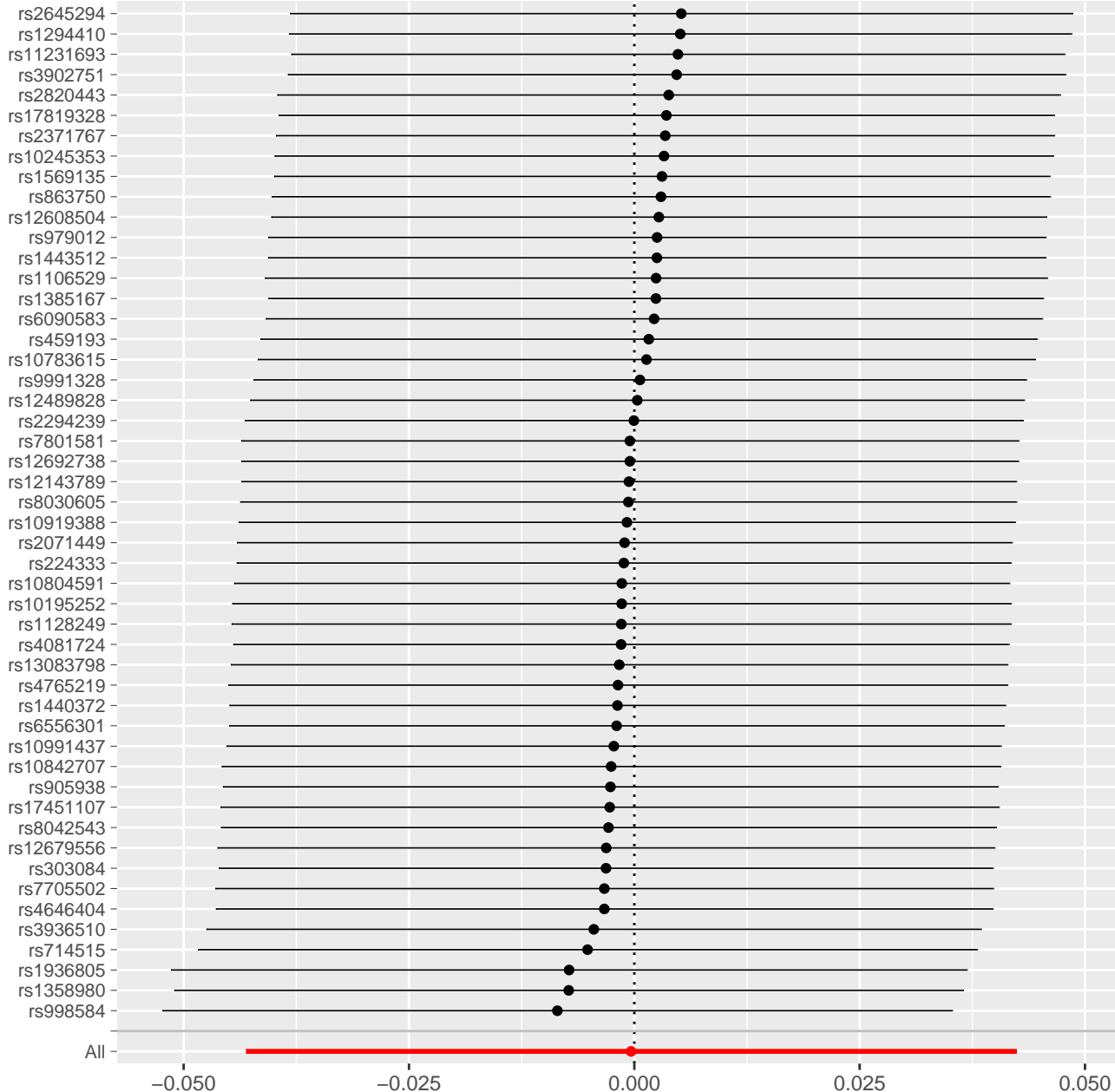'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−arachidonoylglycerophosphocholine* || id:558'

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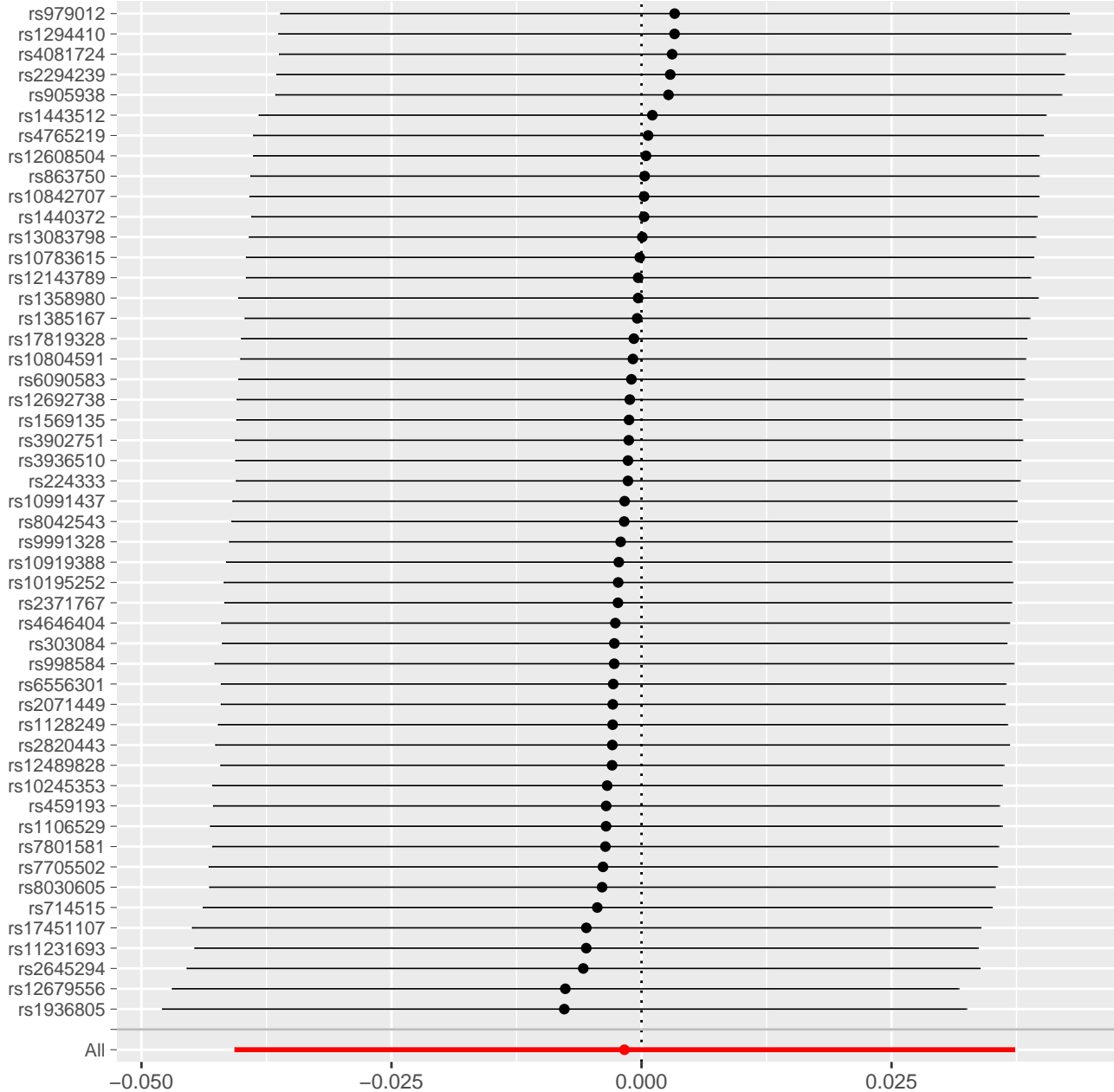'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−palmitoleoylglycerophosphocholine* || id:559'

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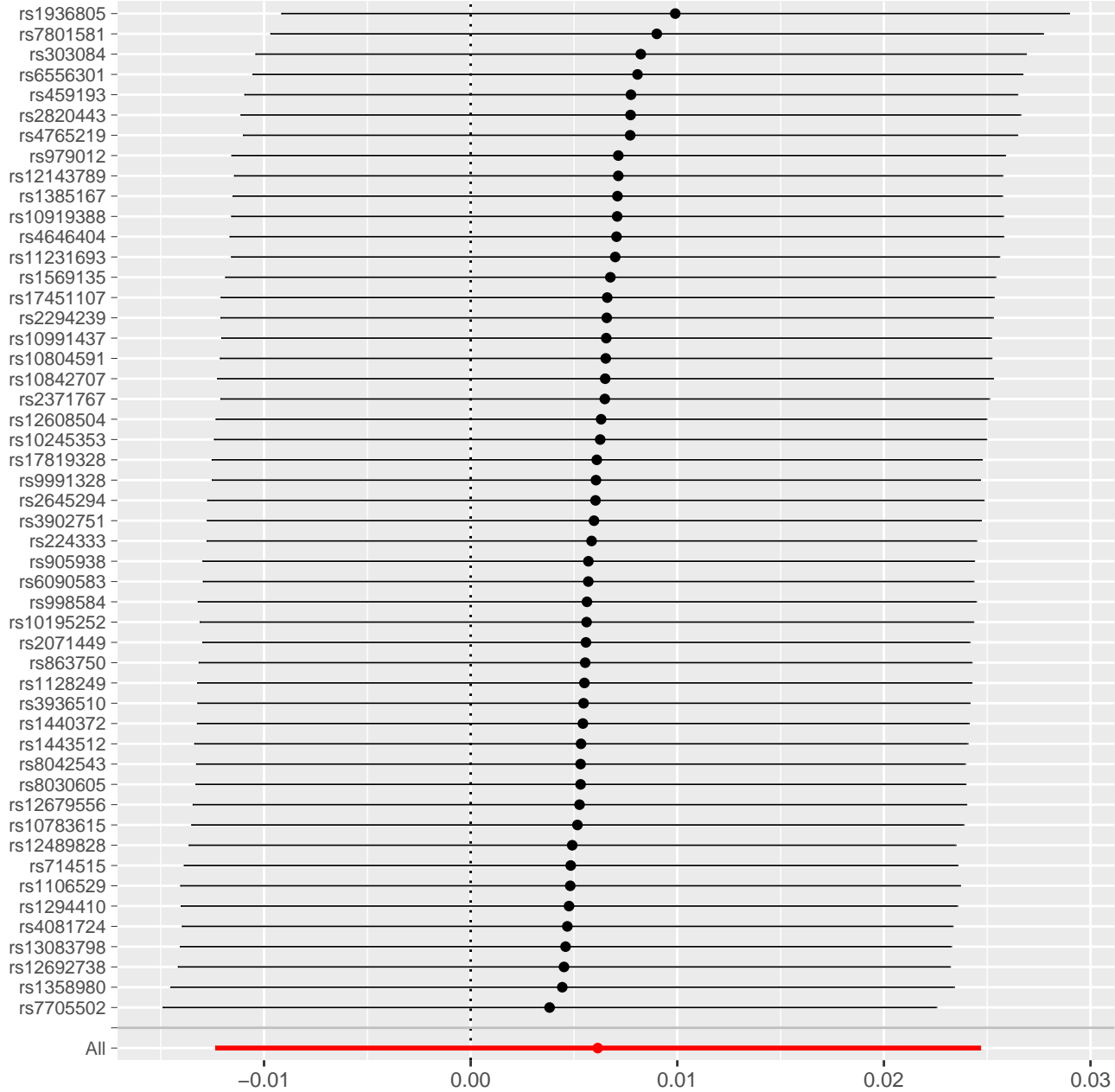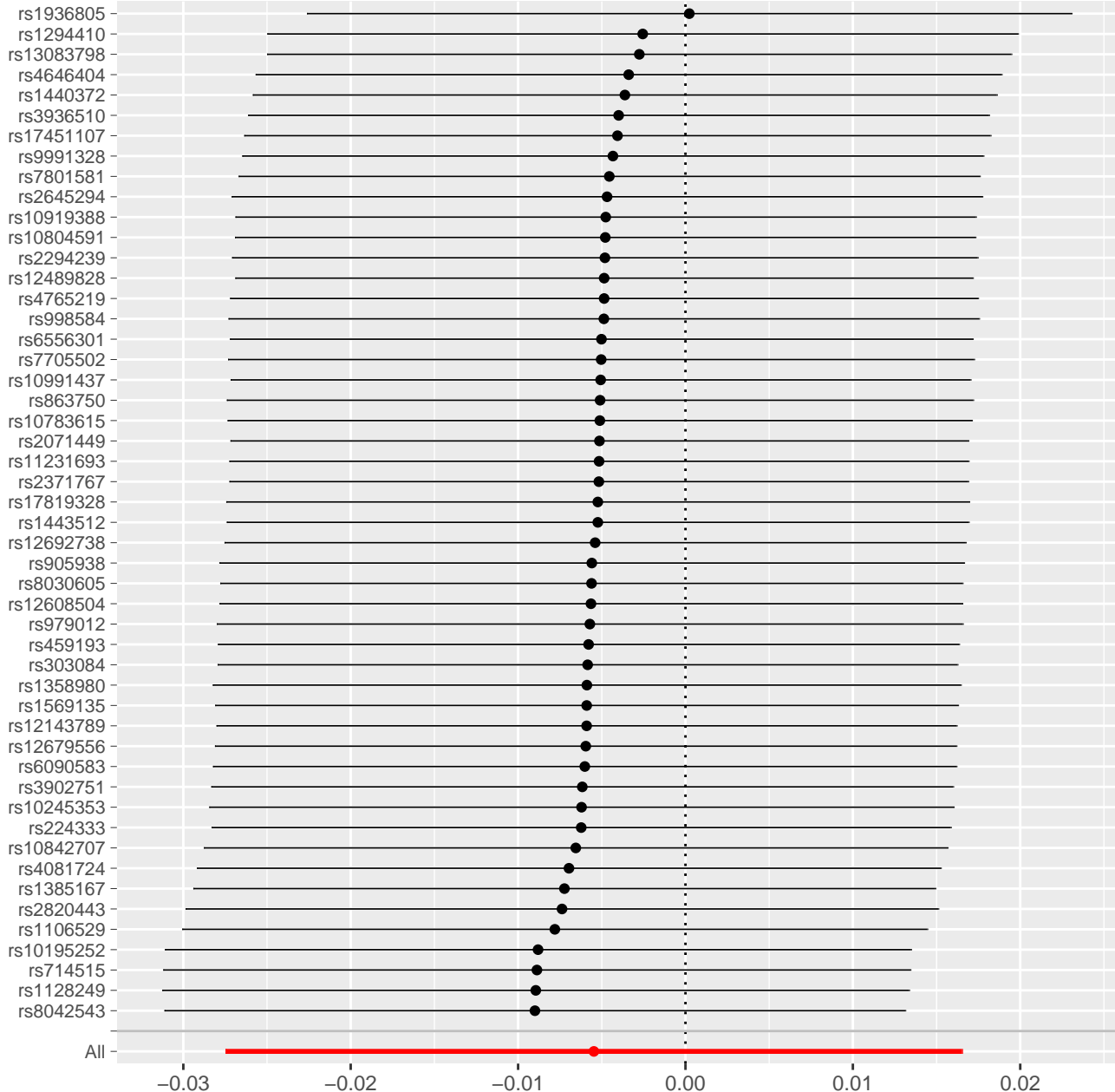'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12013 || id:562'

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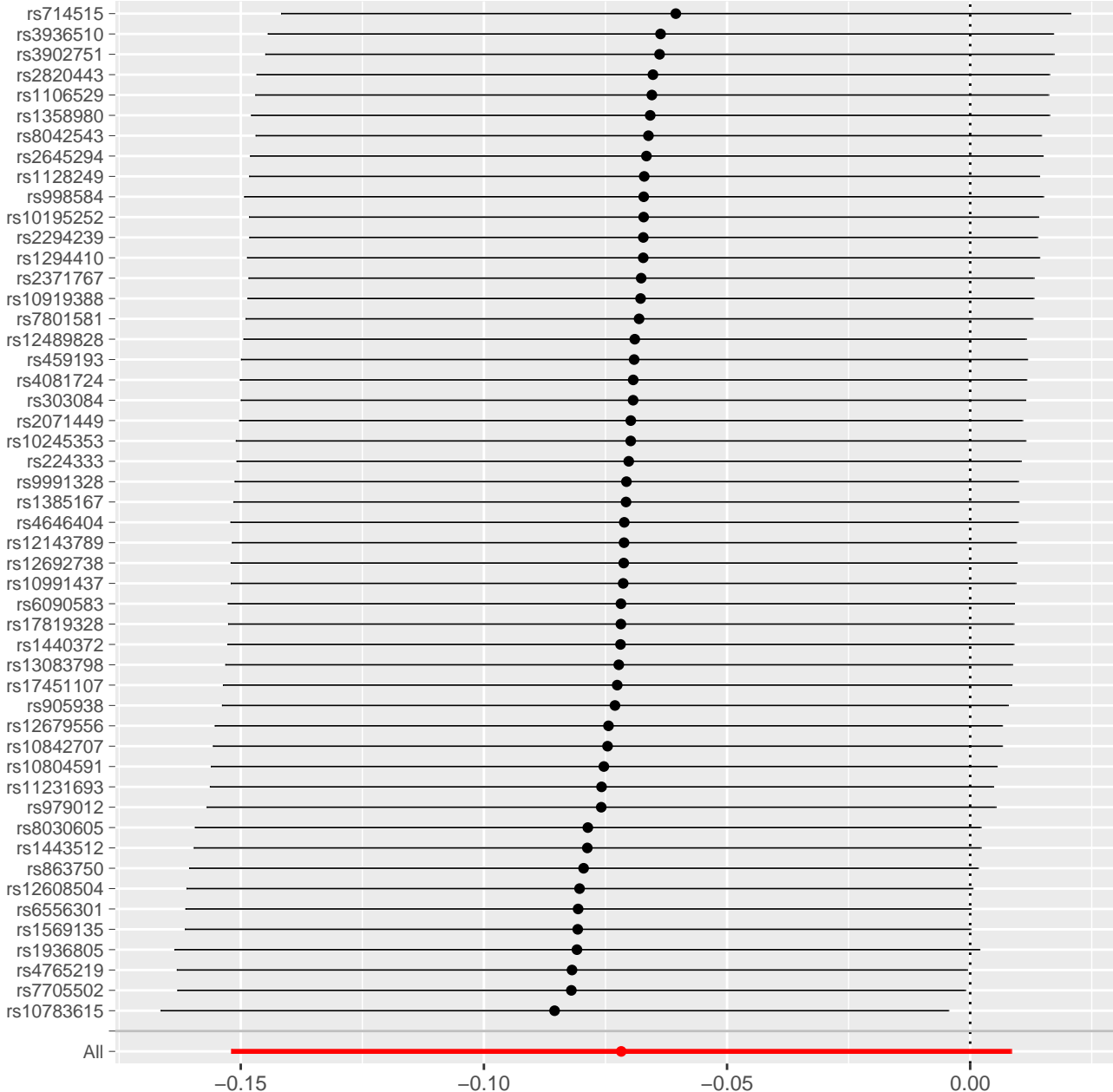'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Gamma−glutamylthreonine* || id:564'

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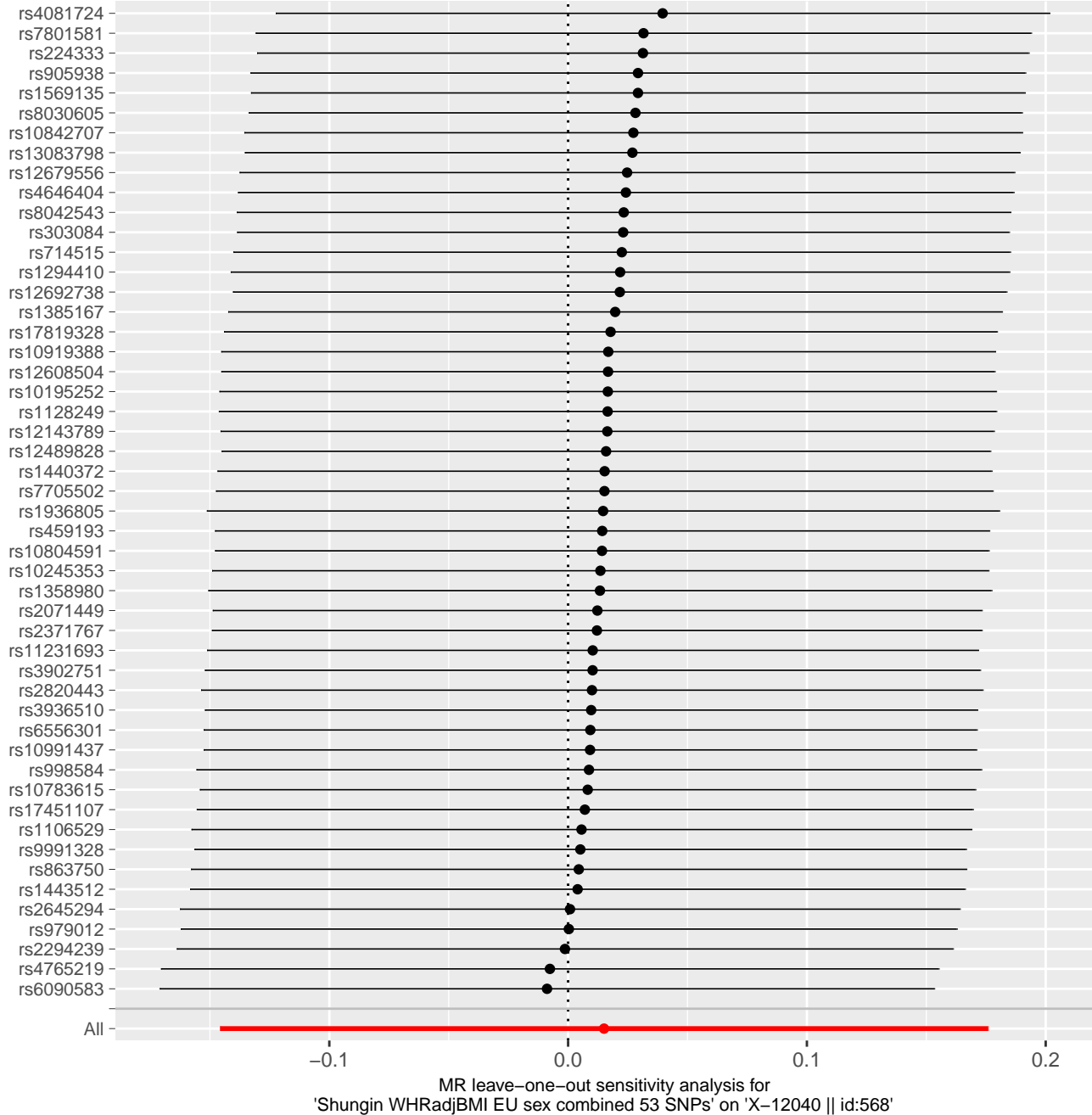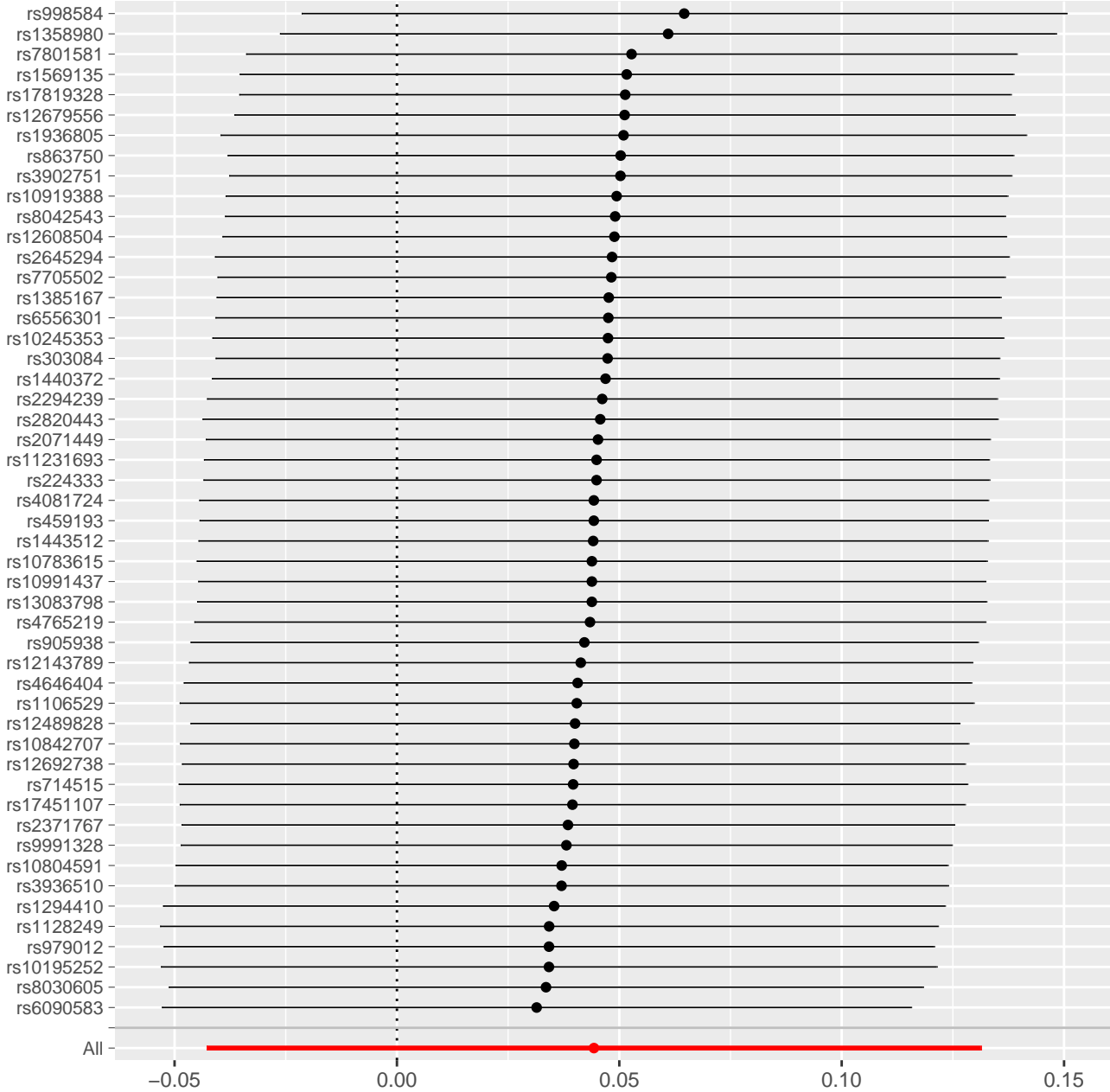'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12029 || id:565'

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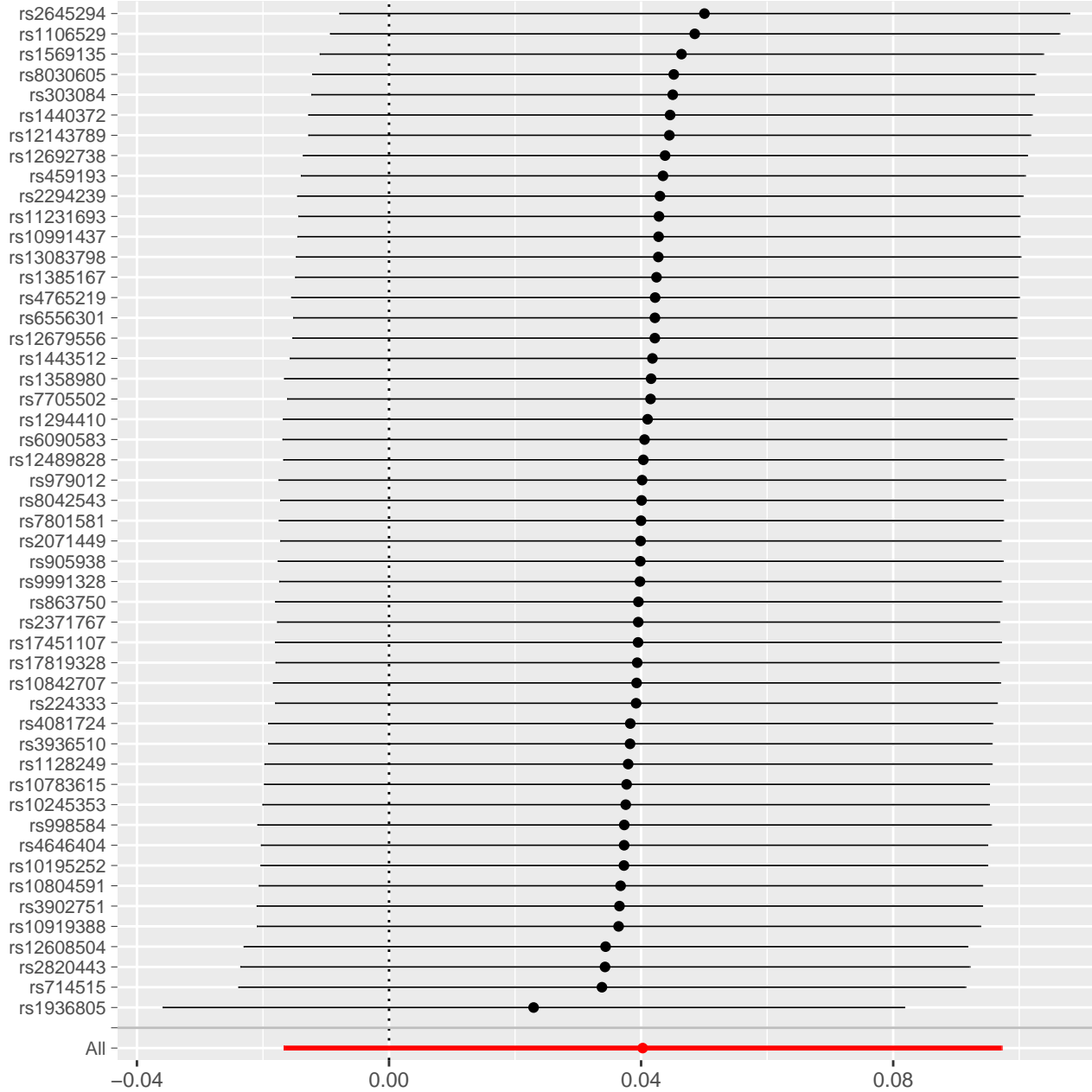'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12038 || id:566'

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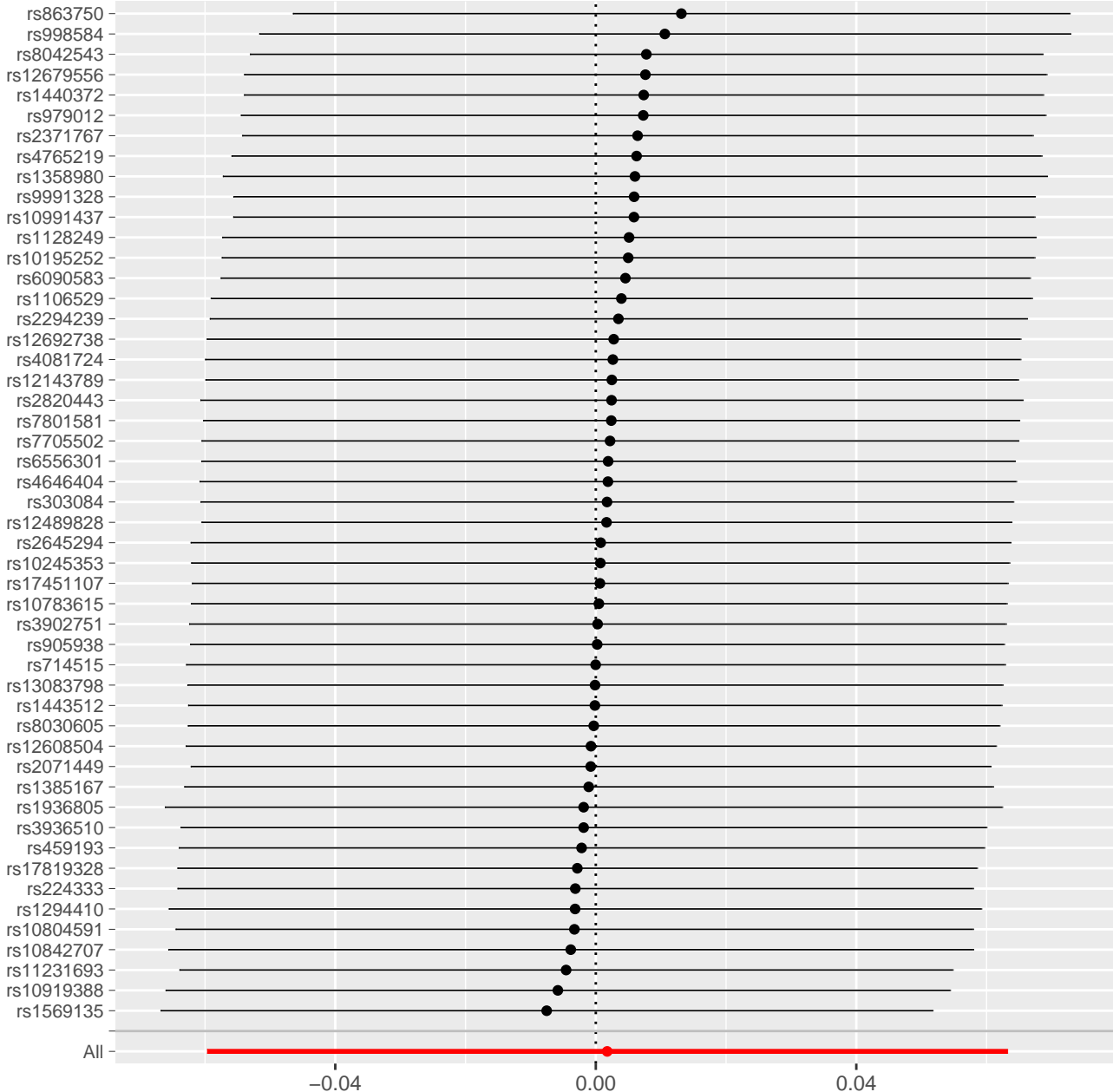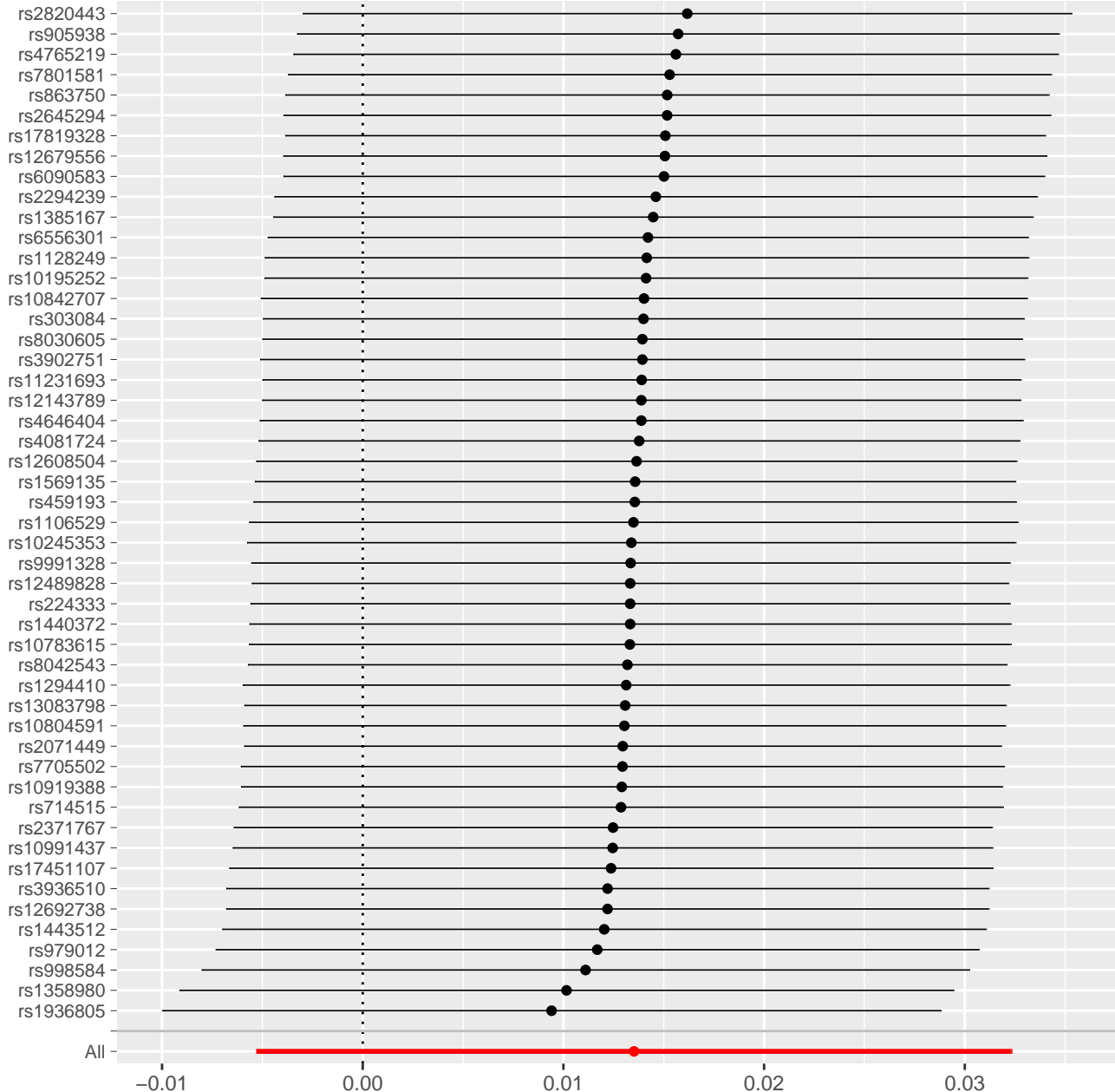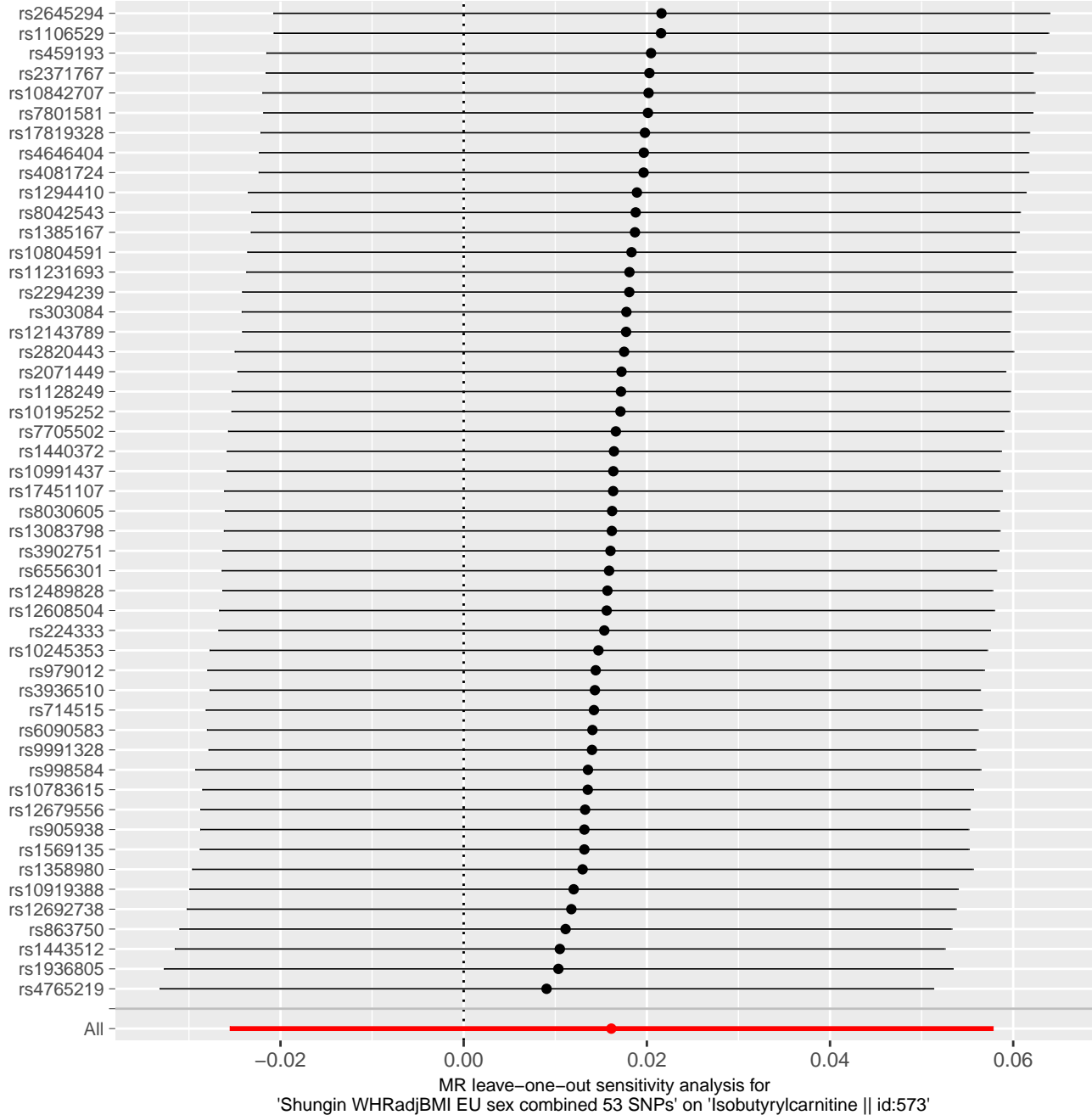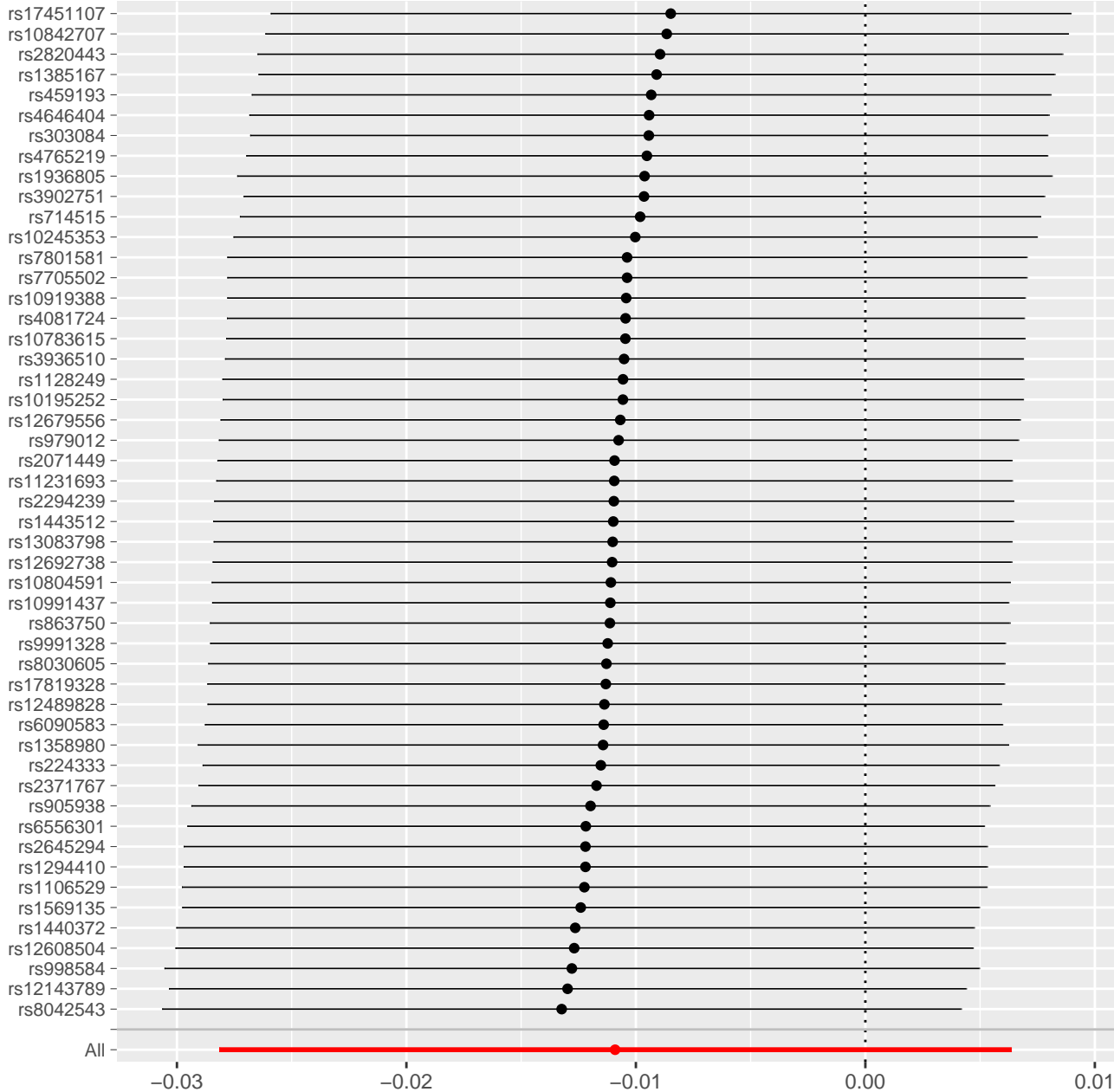'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12056 || id:569'

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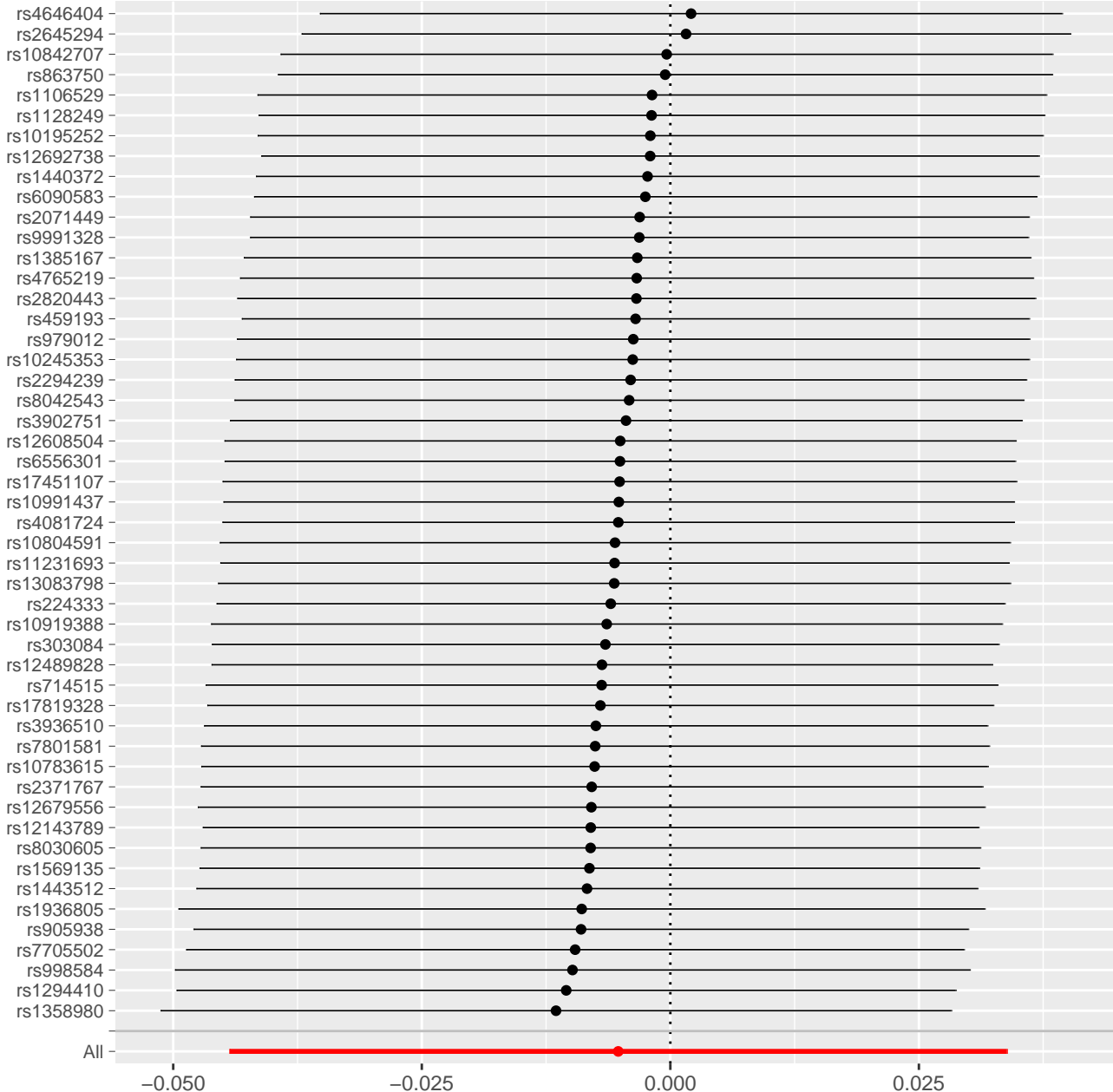'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Gamma−tocopherol || id:571'

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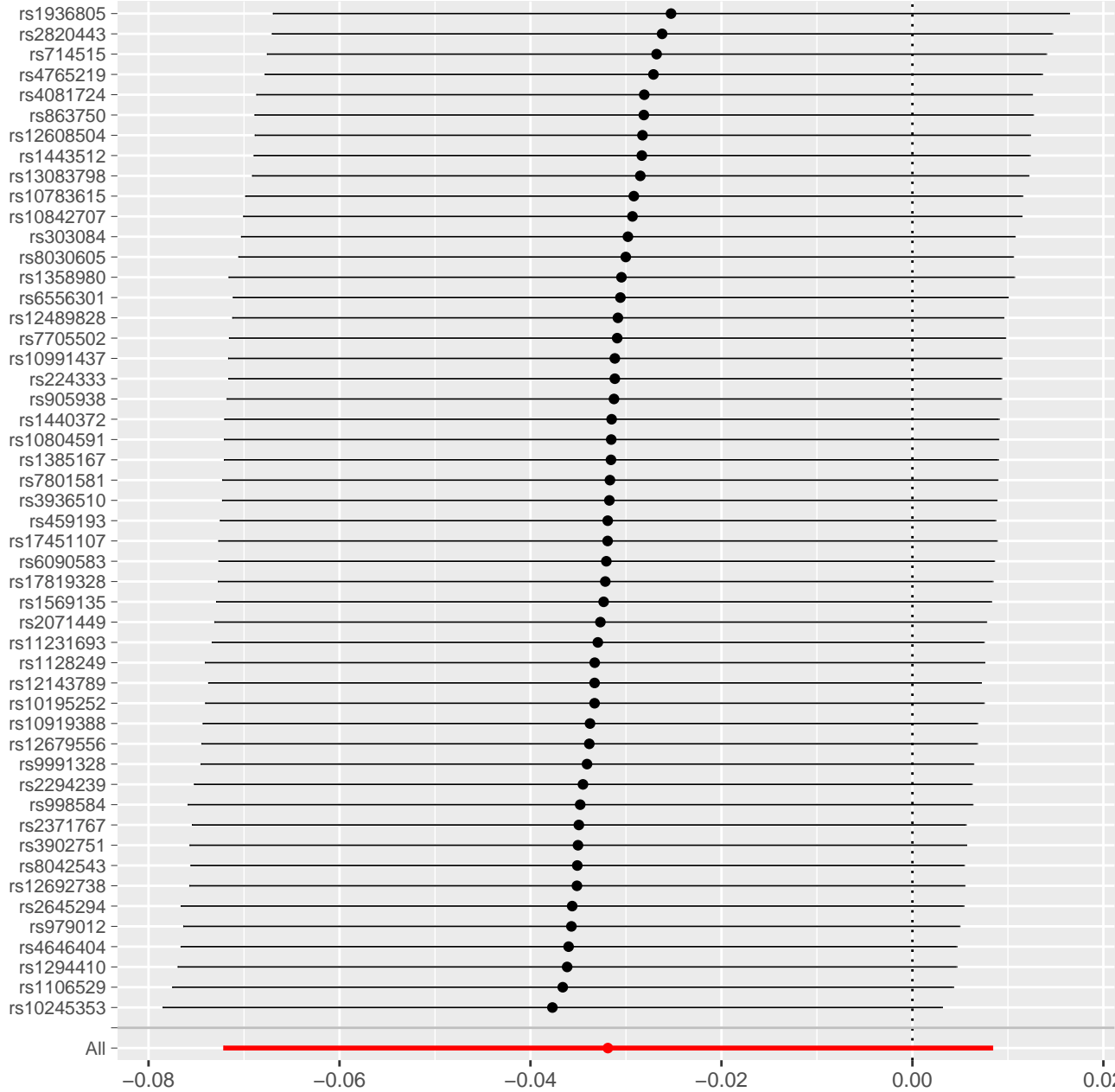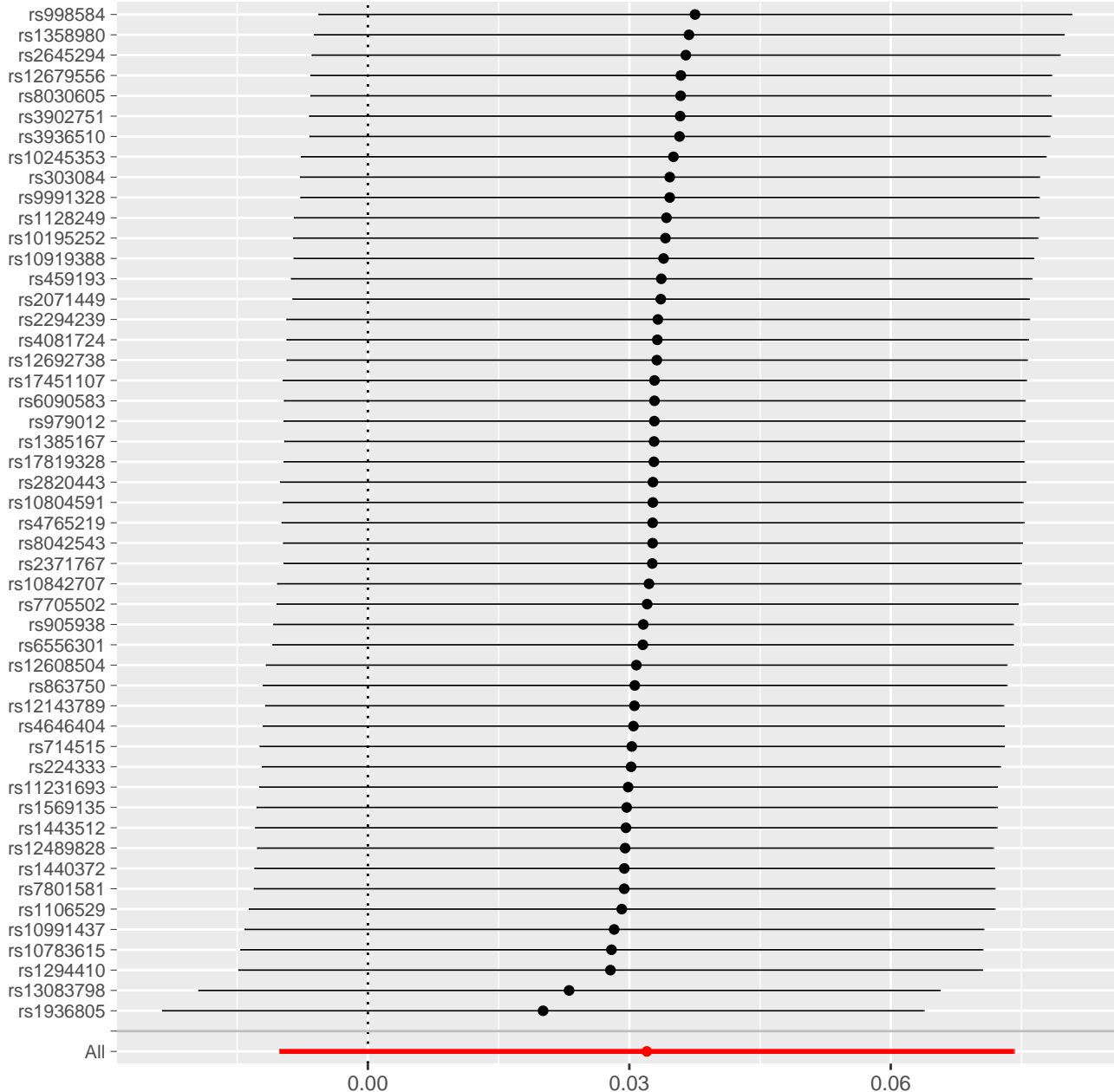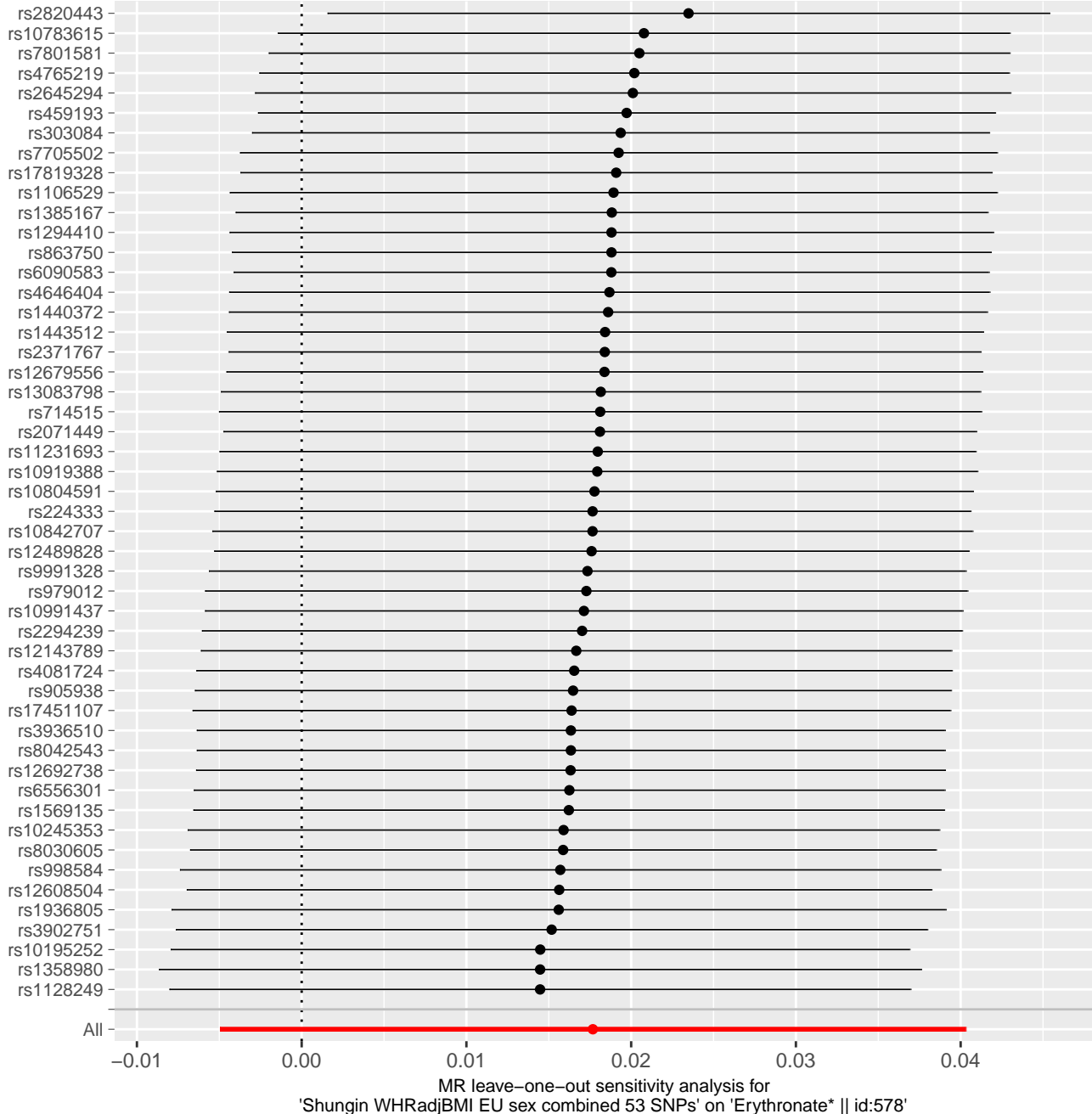'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Isobutyrylcarnitine || id:573'

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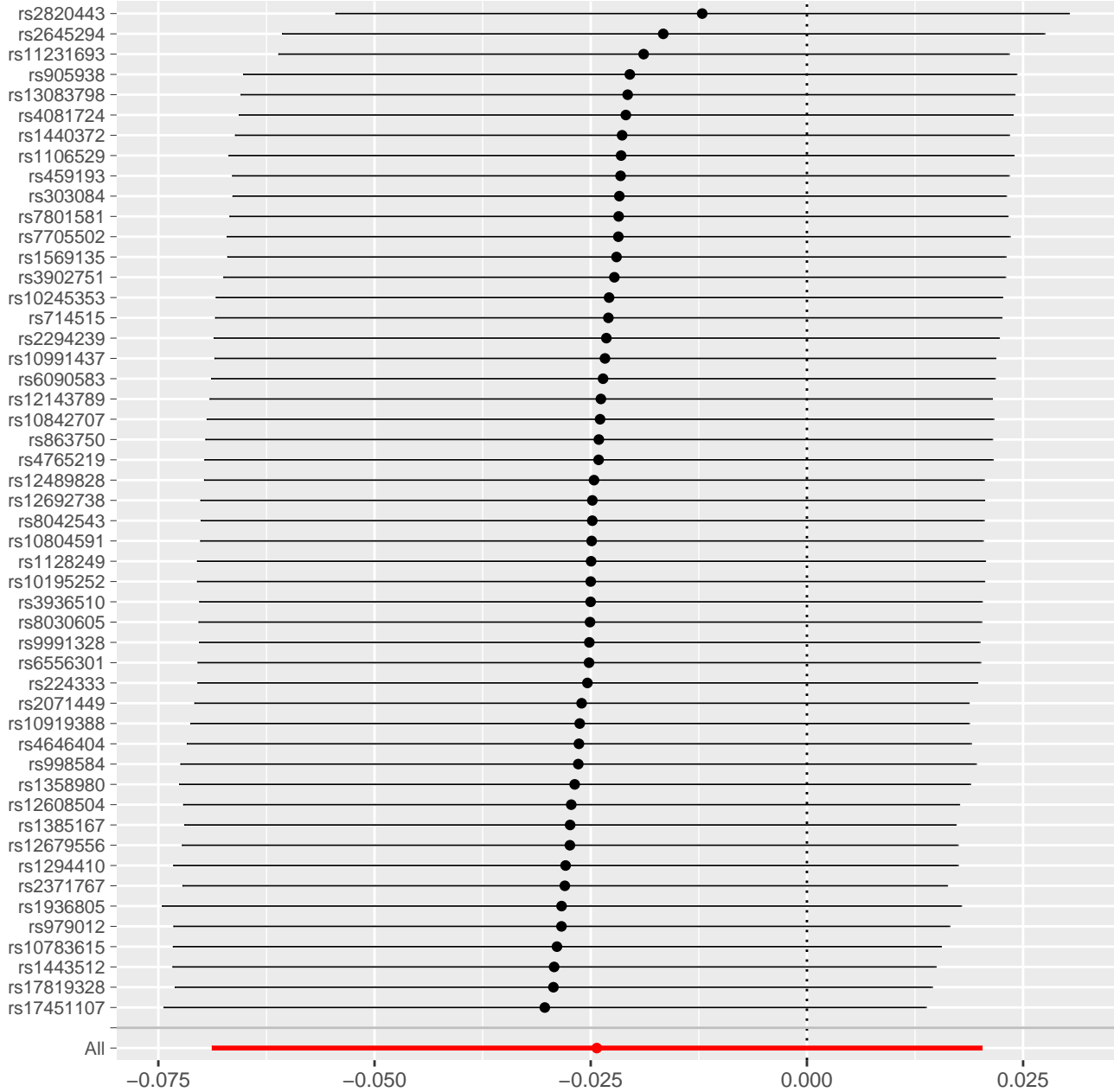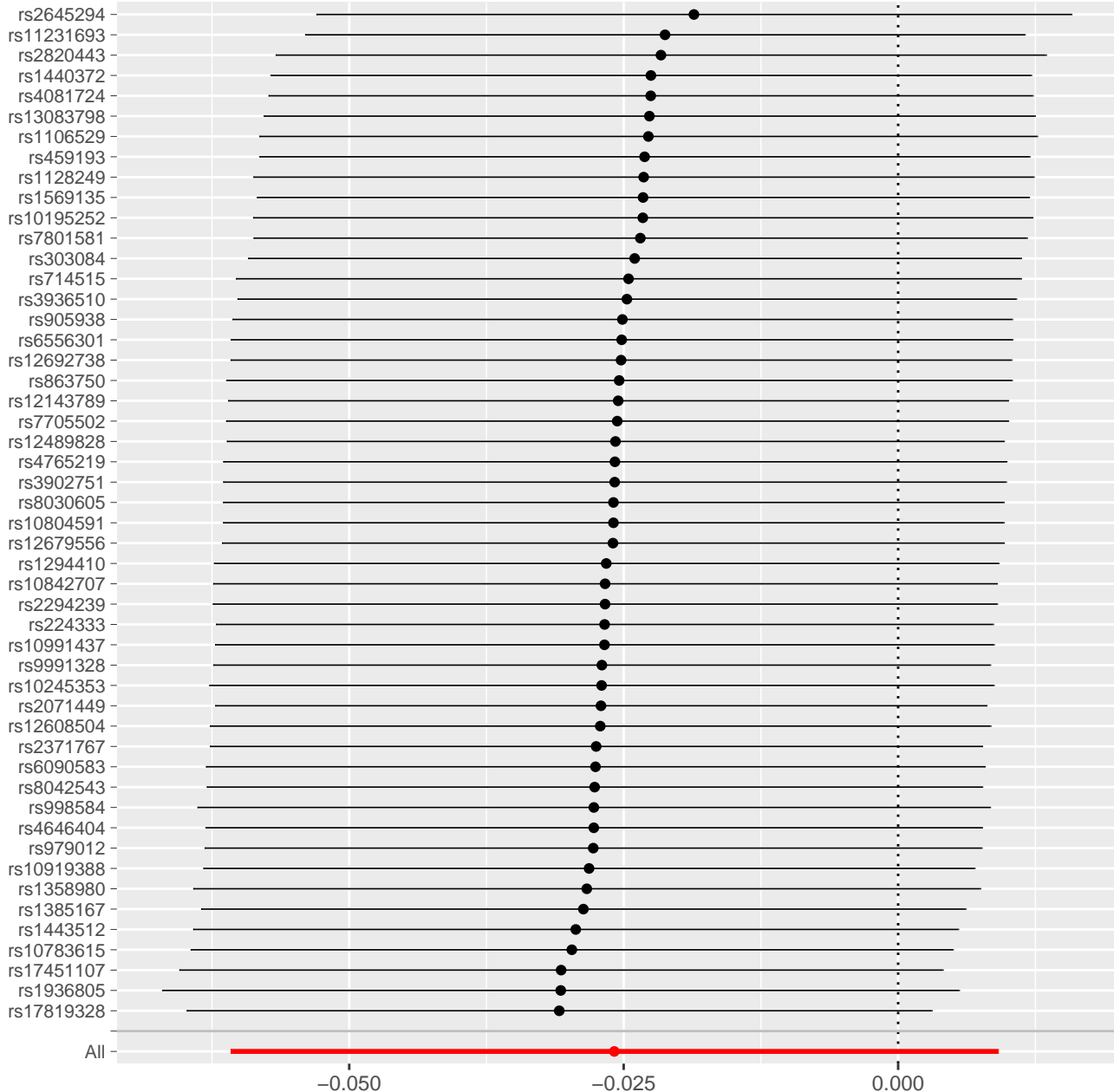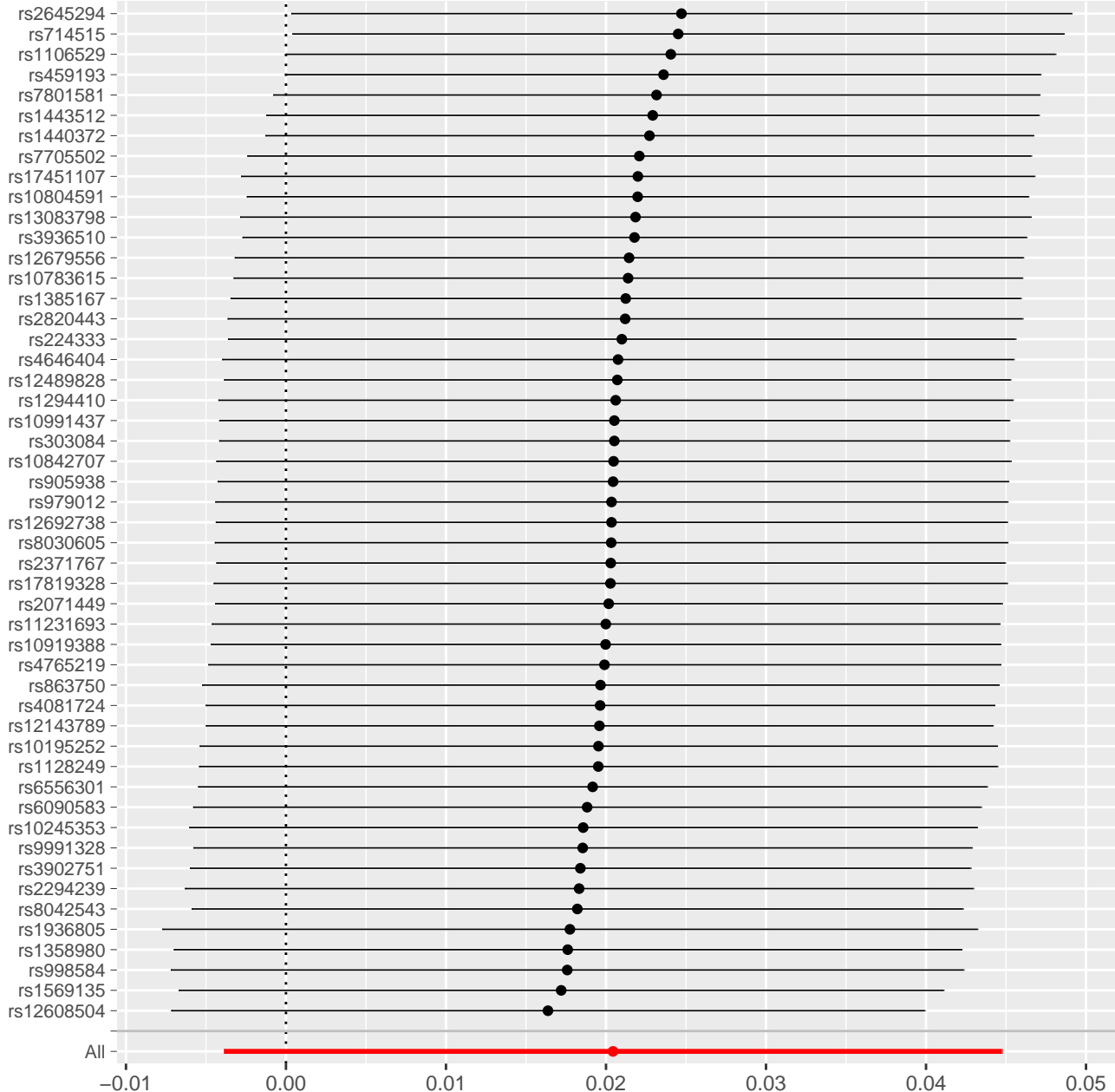'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12093 || id:581'

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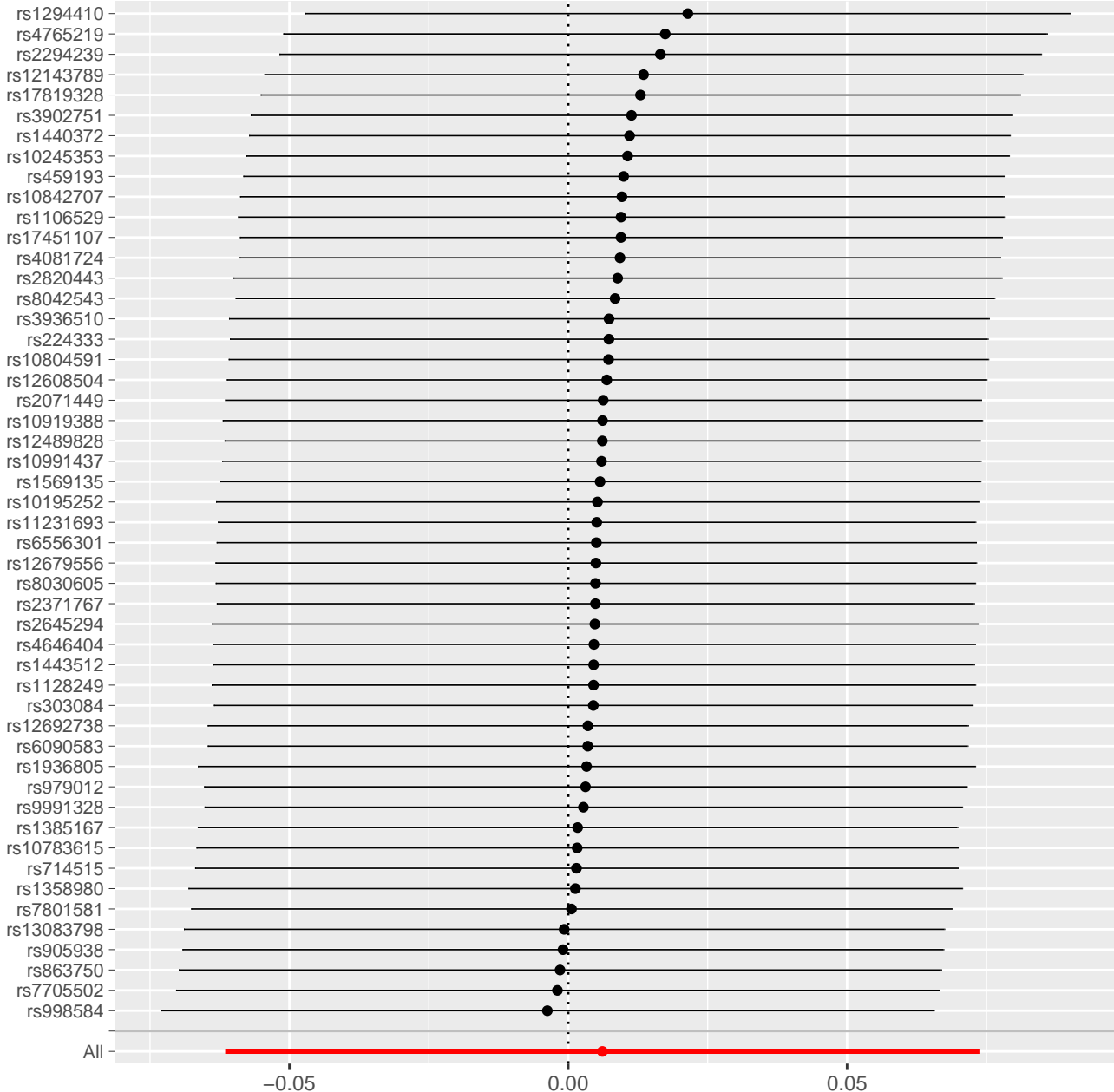
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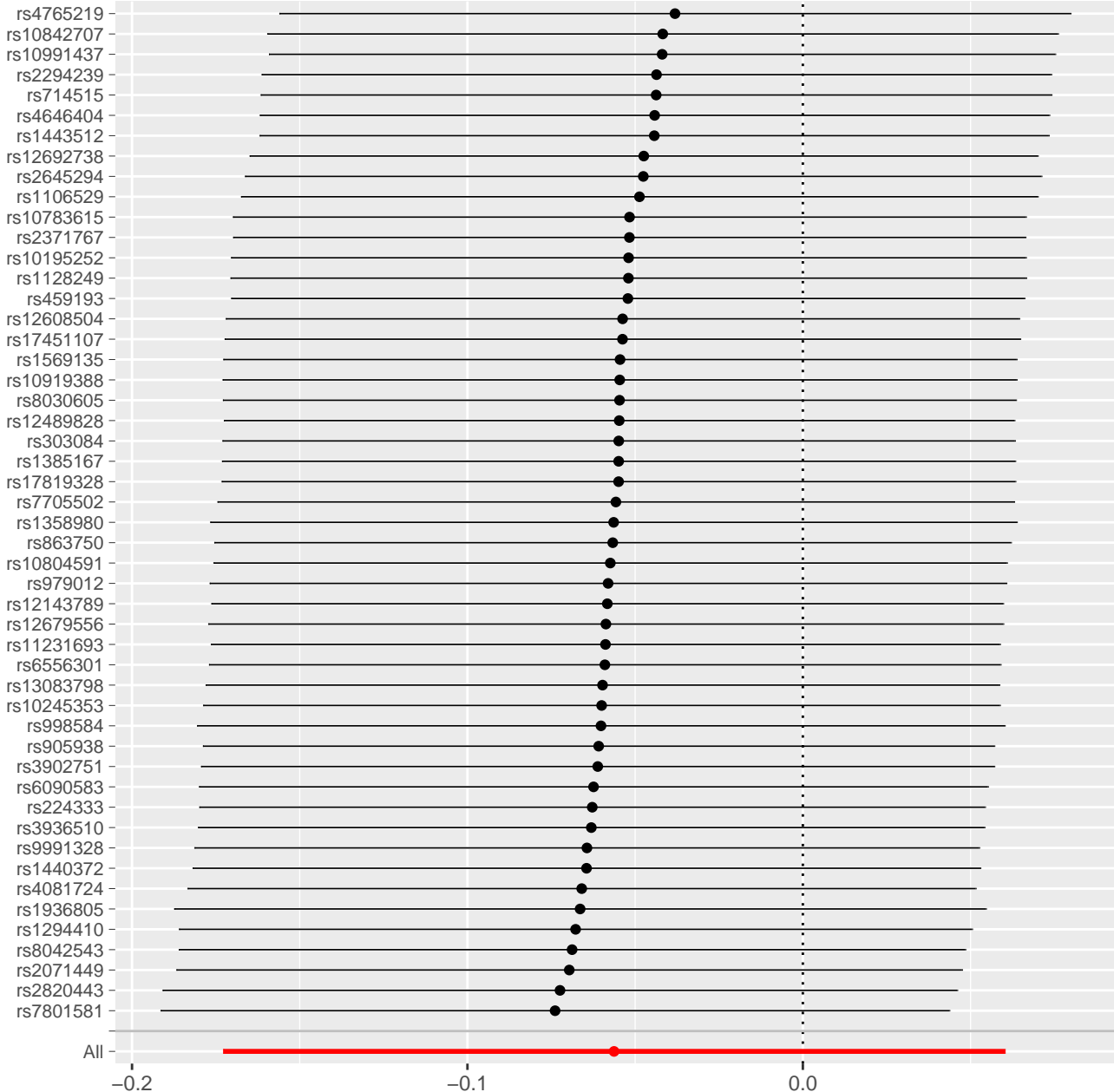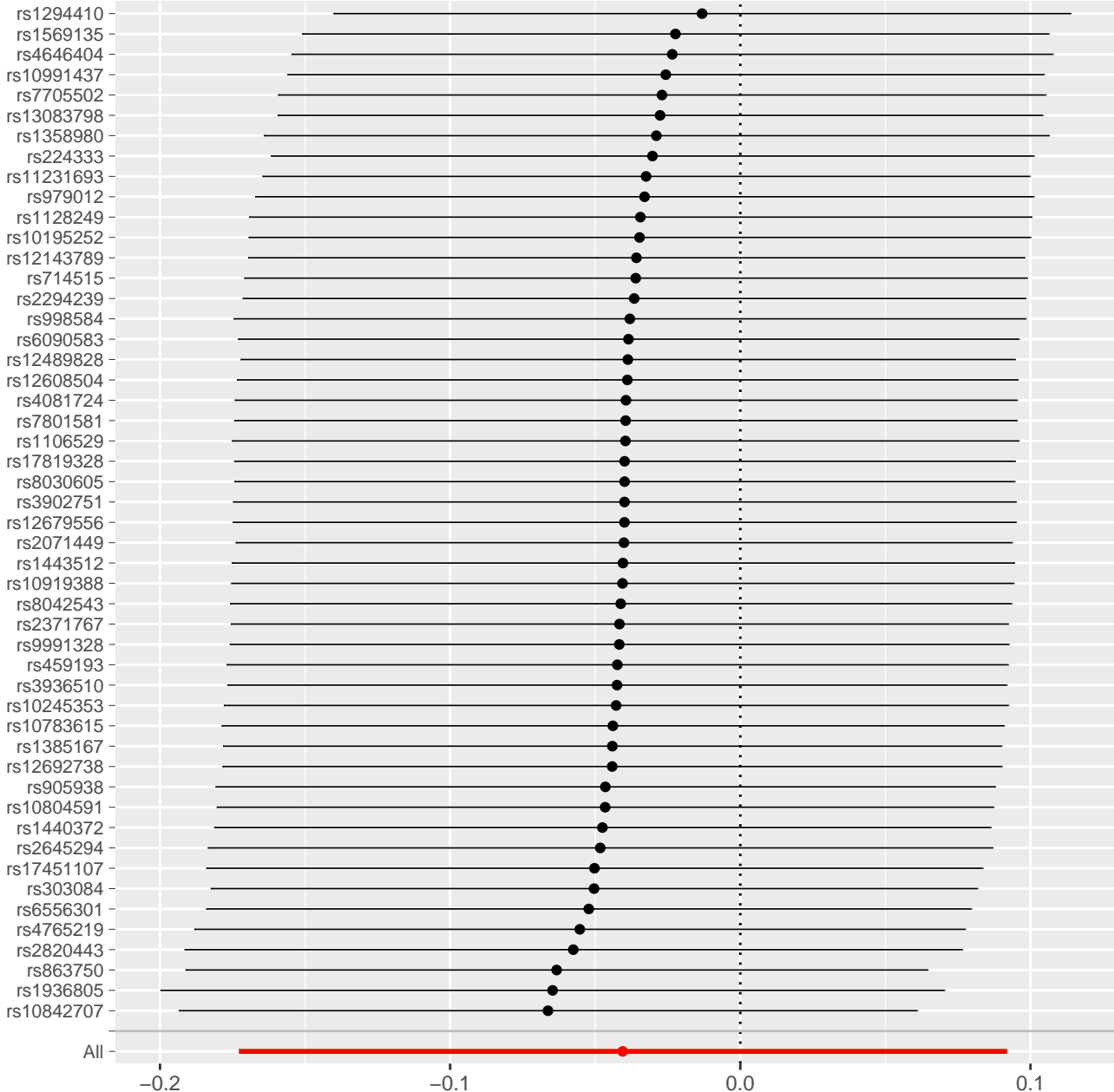'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12116 || id:585'

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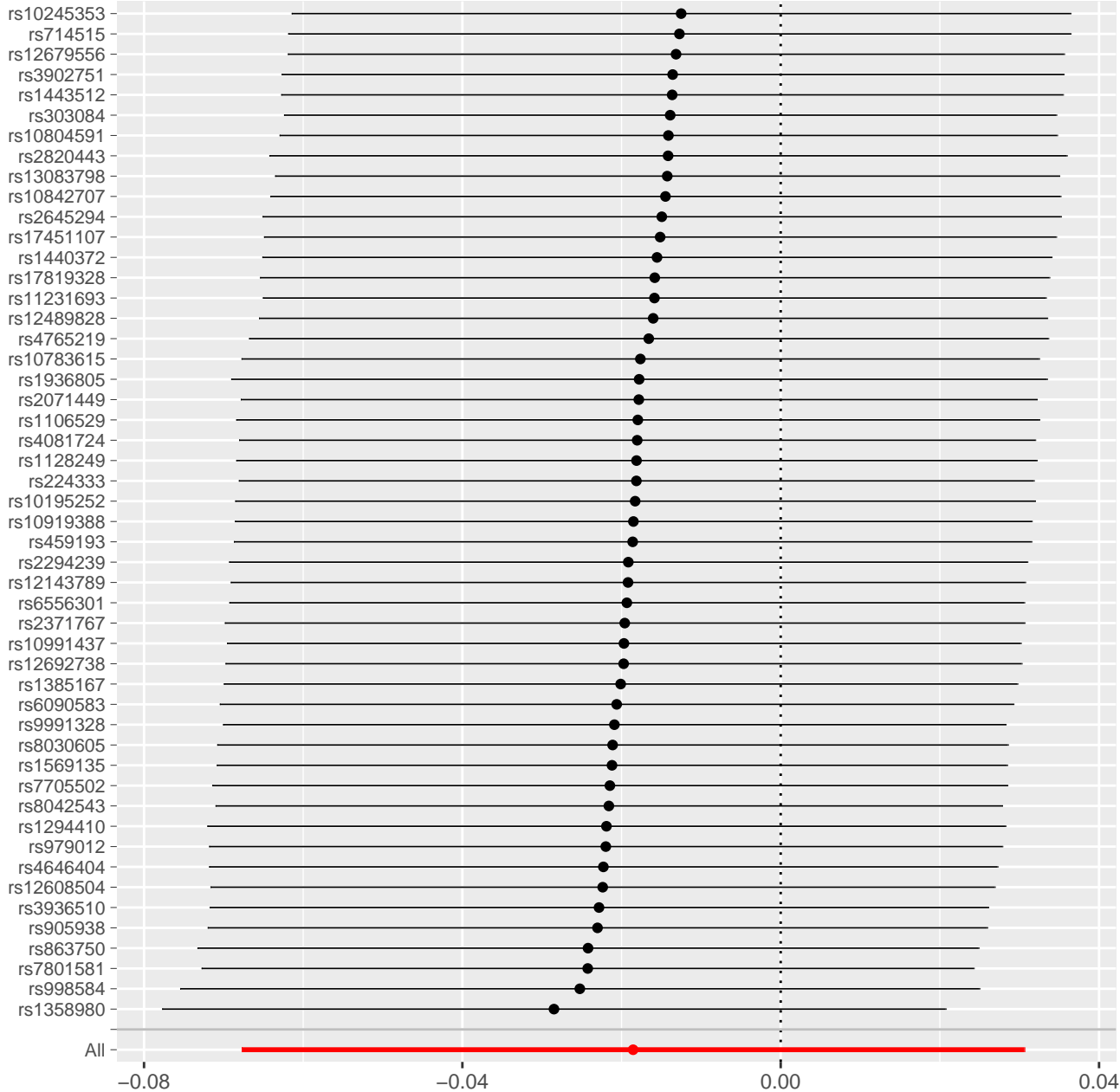'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Eicosenoate (20:1n9 or 11) || id:586'
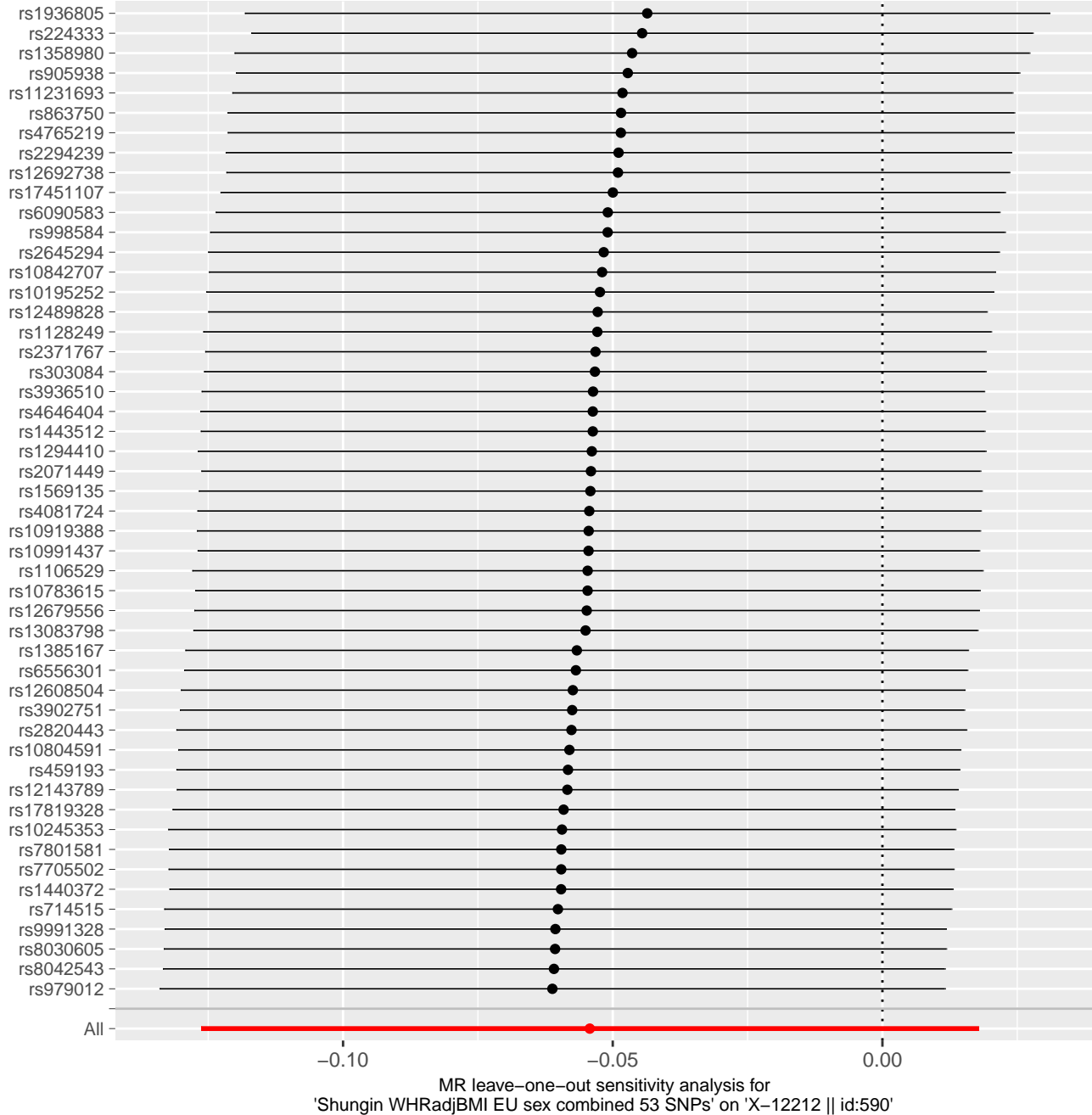
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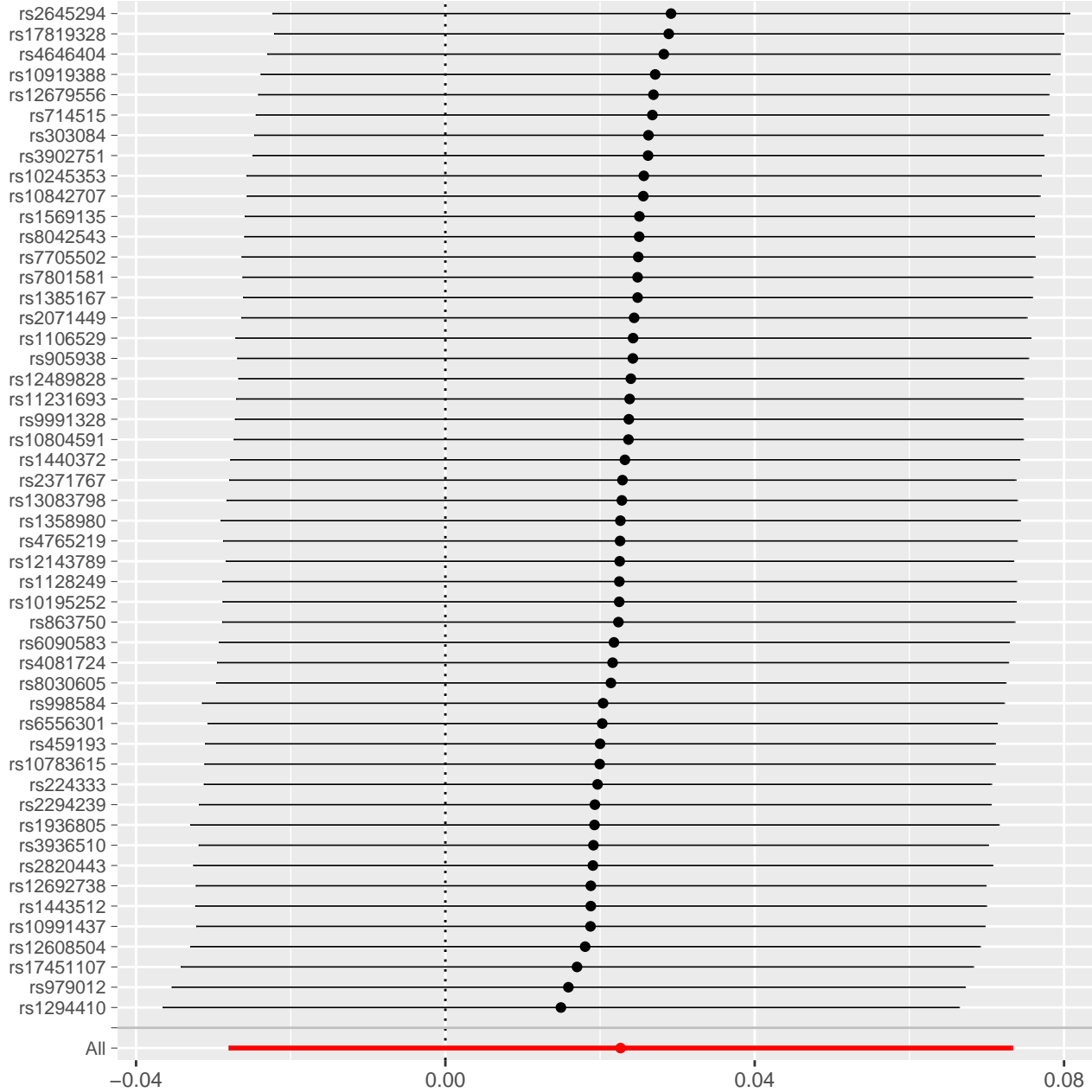'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12188 || id:587'

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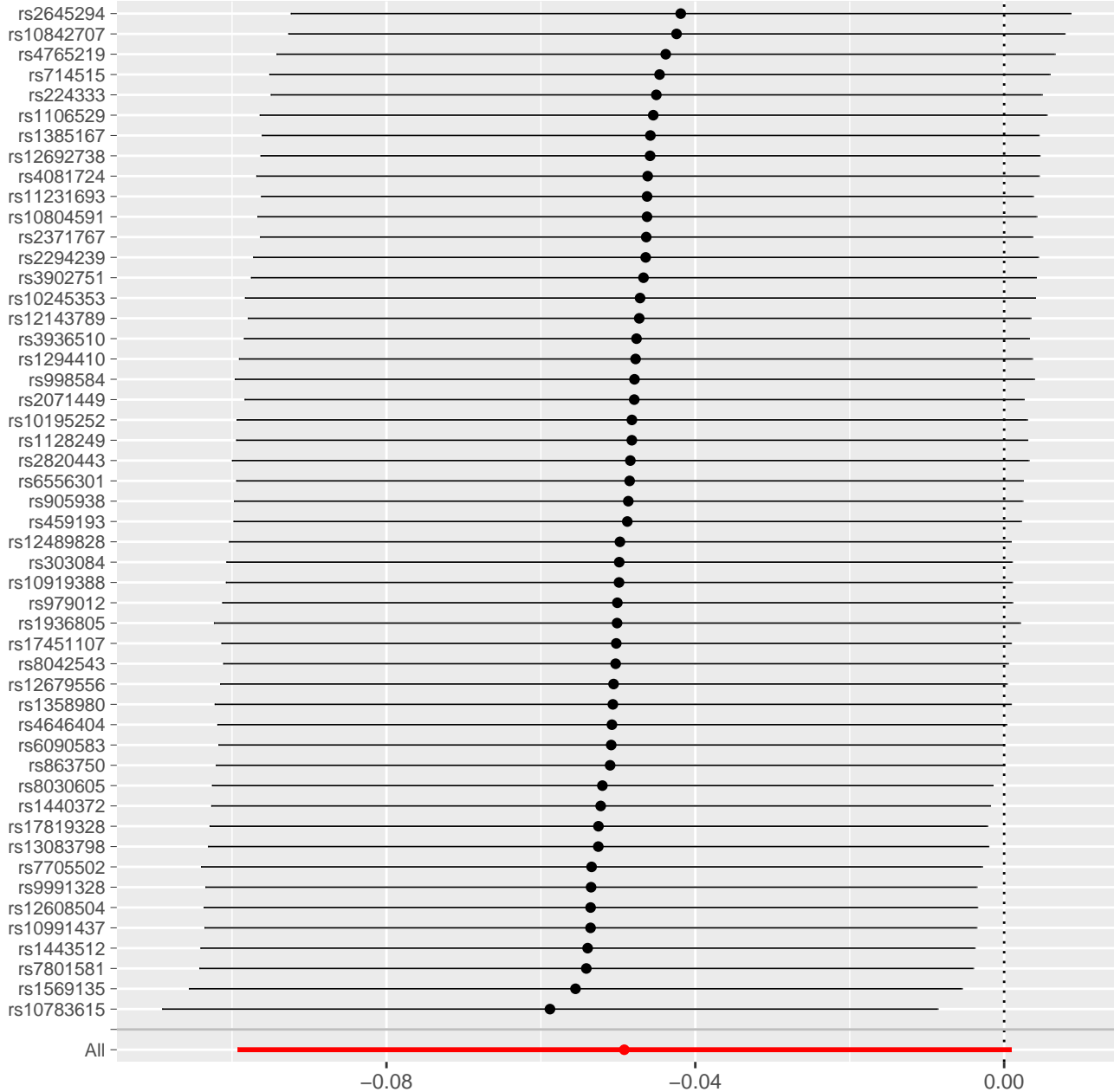'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12189 || id:588'

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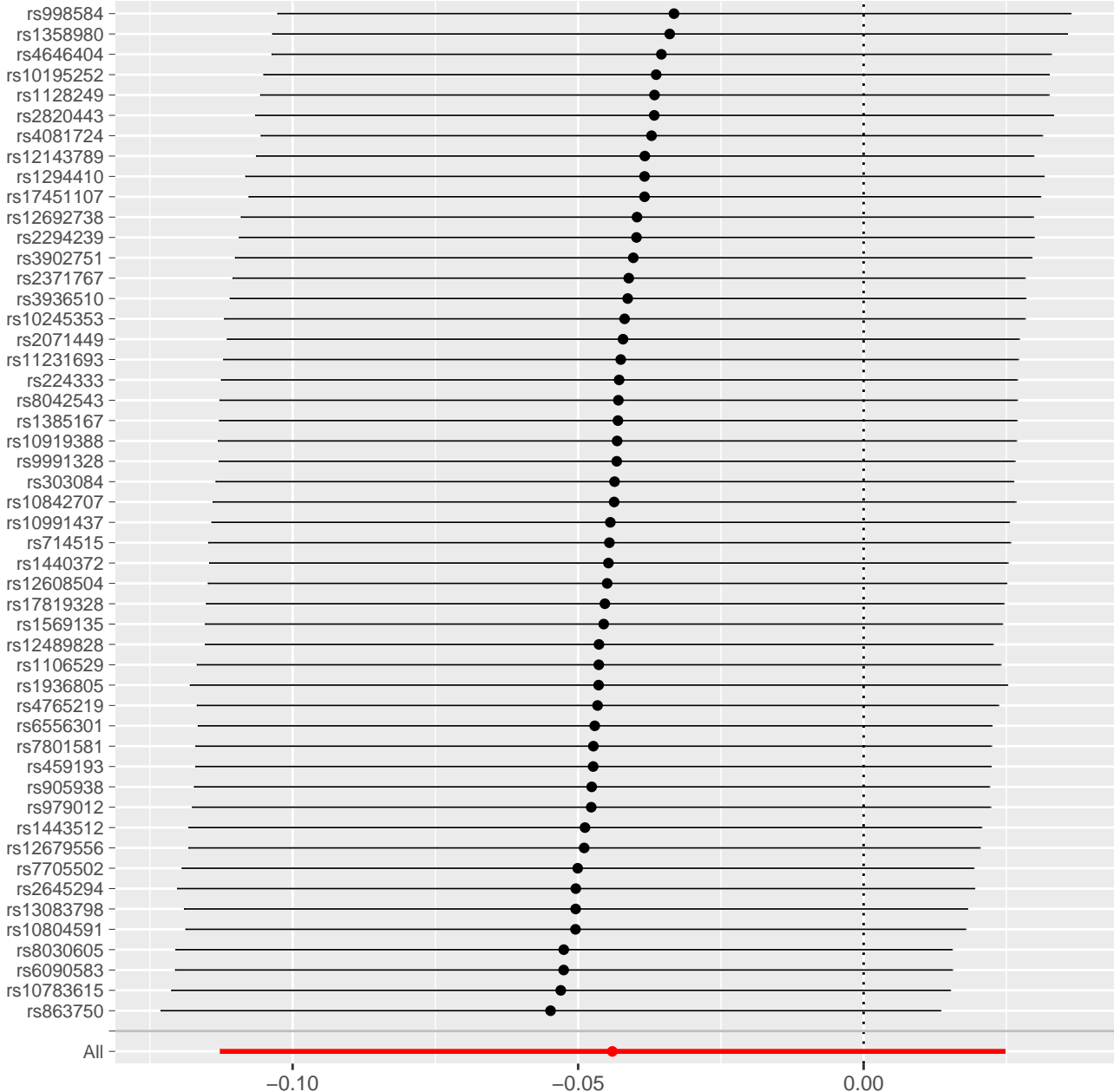'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12206 || id:589'
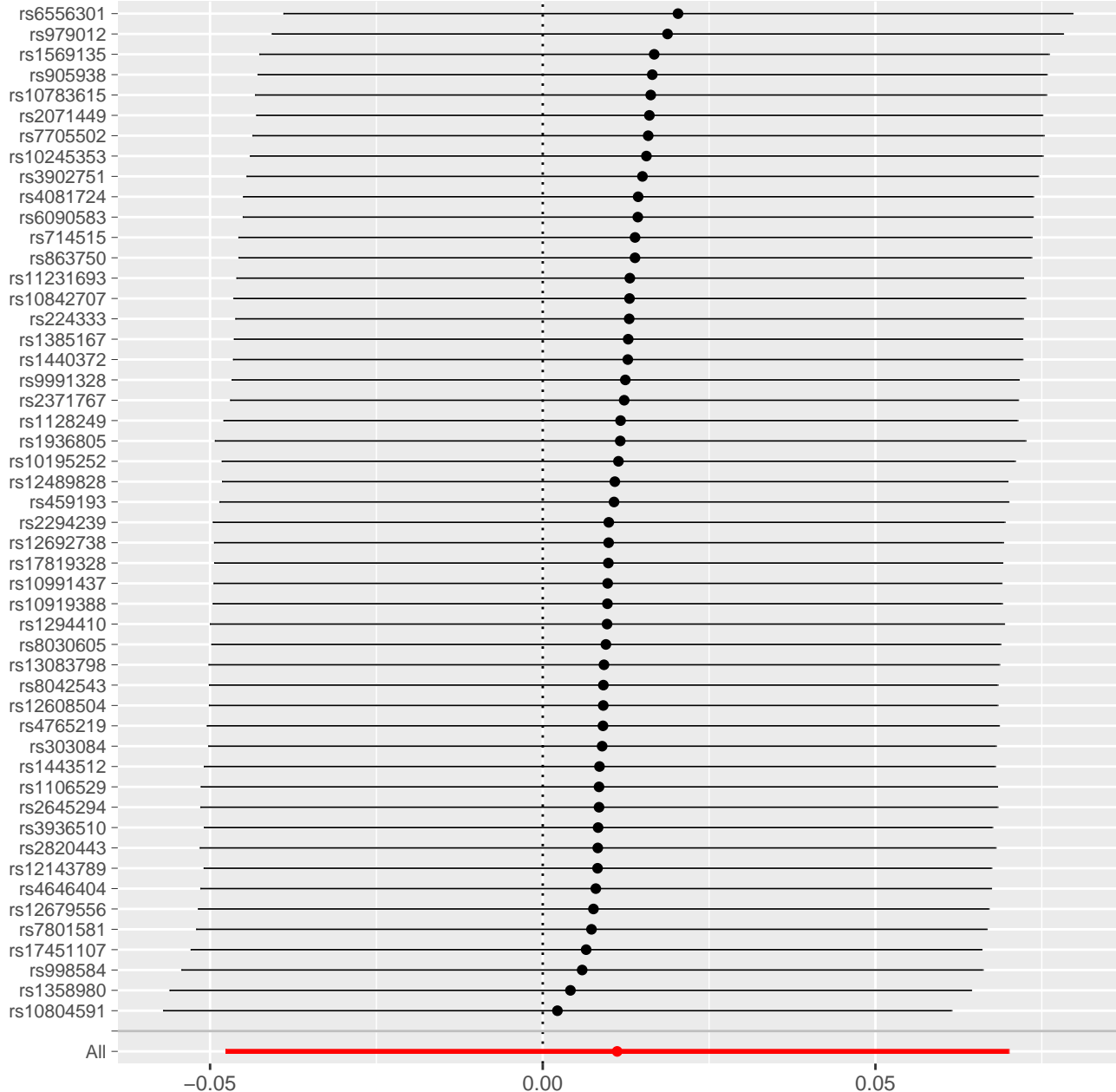
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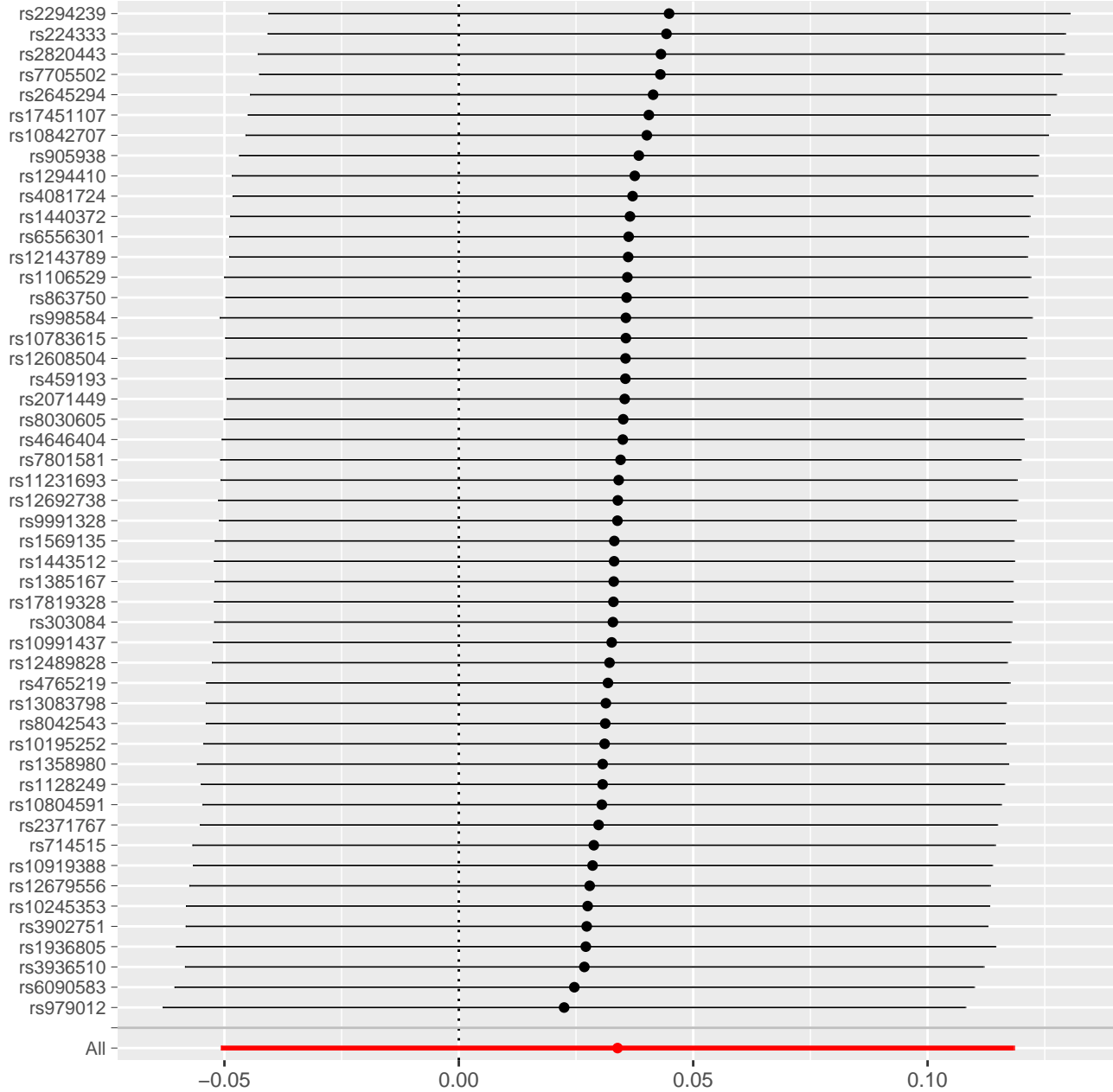'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12230 || id:593'

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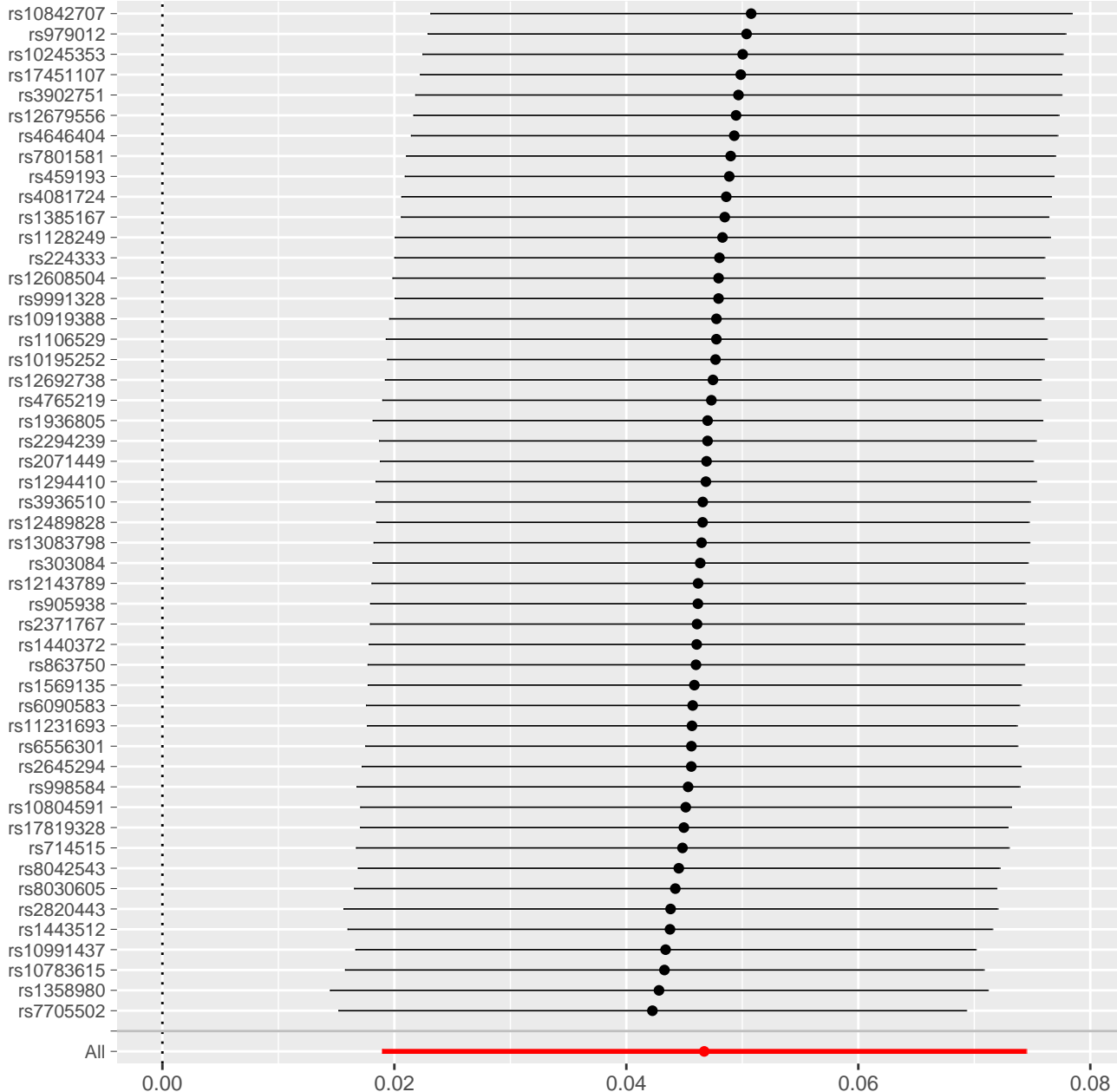
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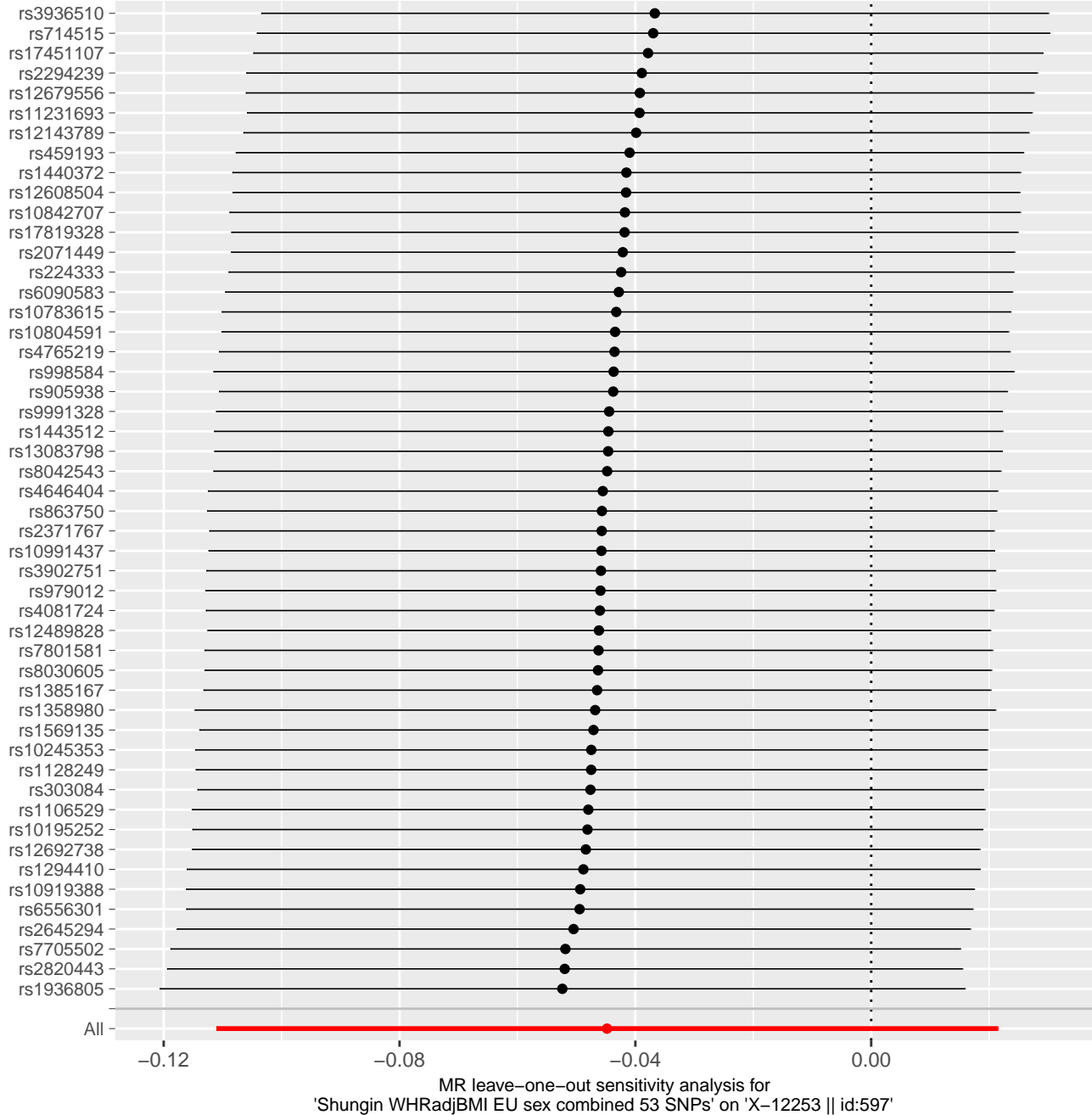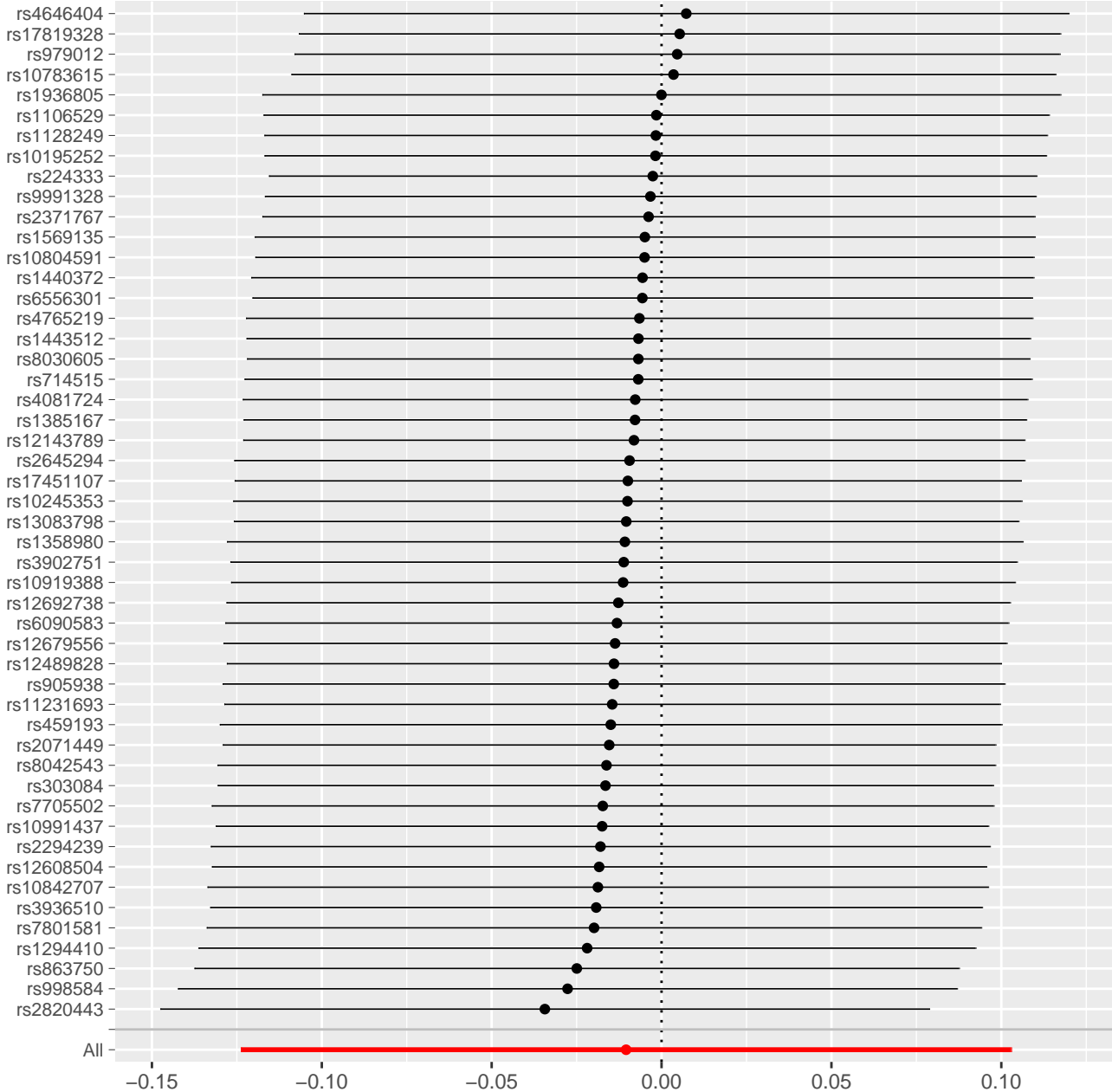
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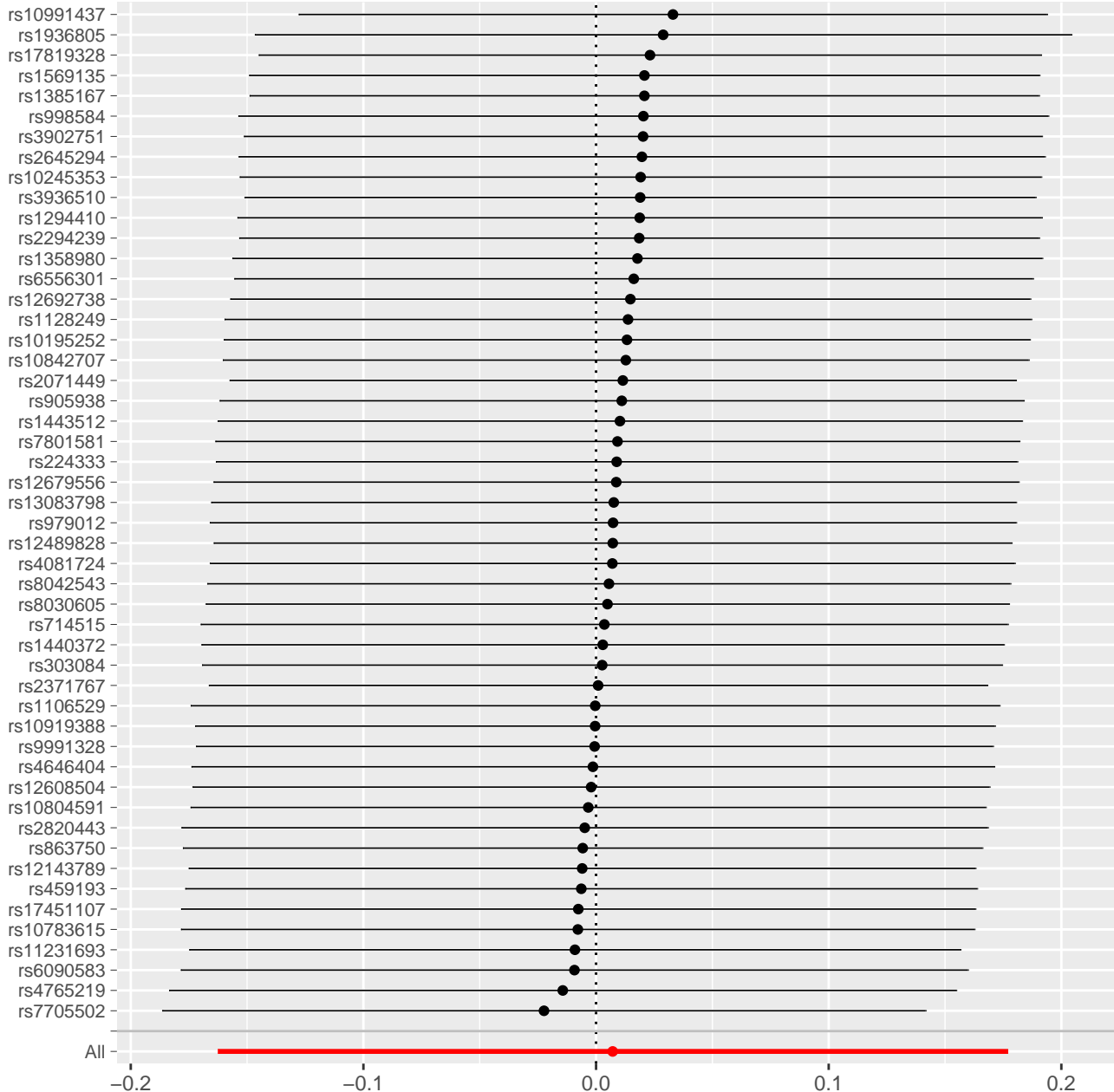'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12261 || id:598'

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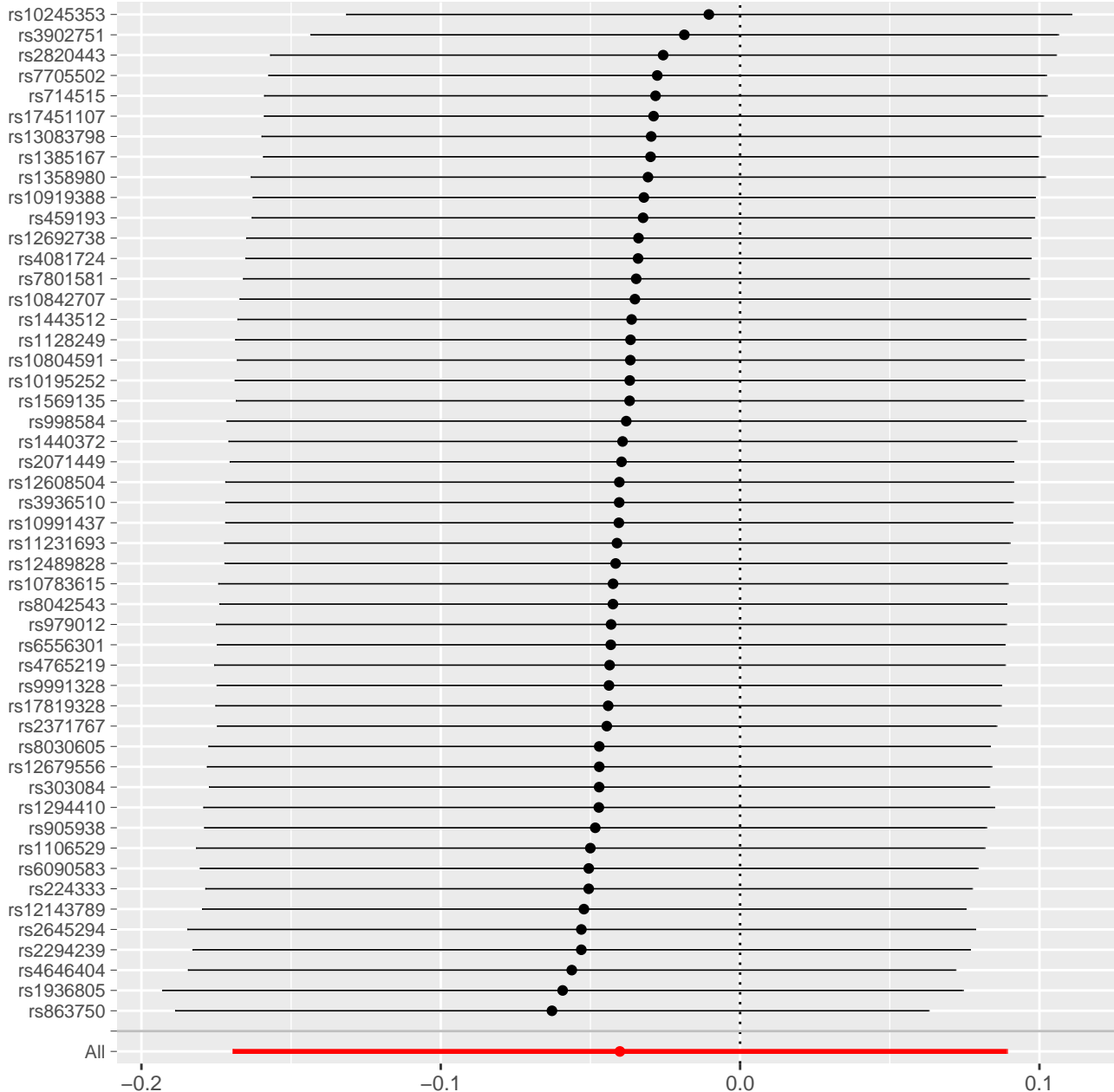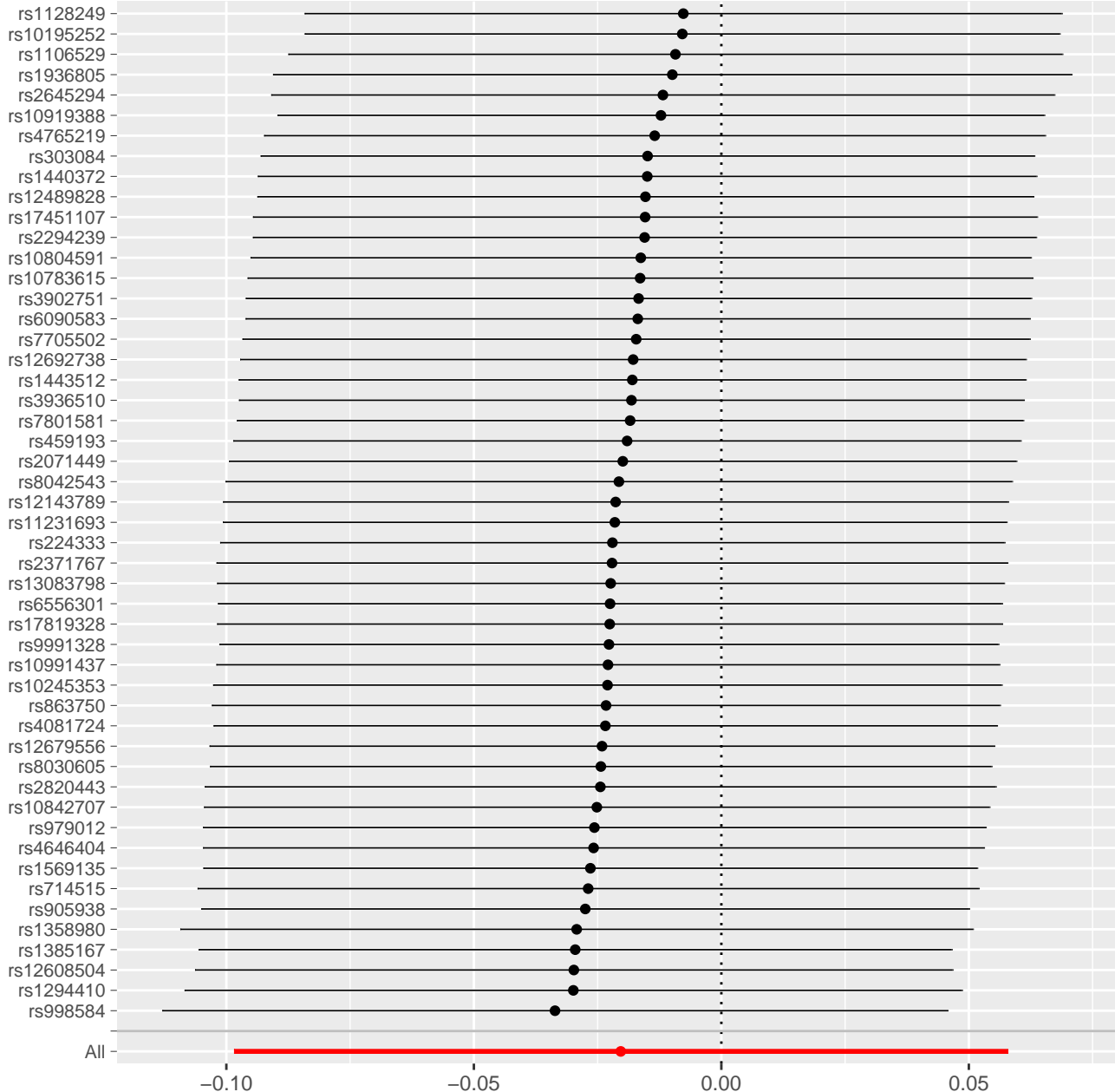'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−10346 || id:600'

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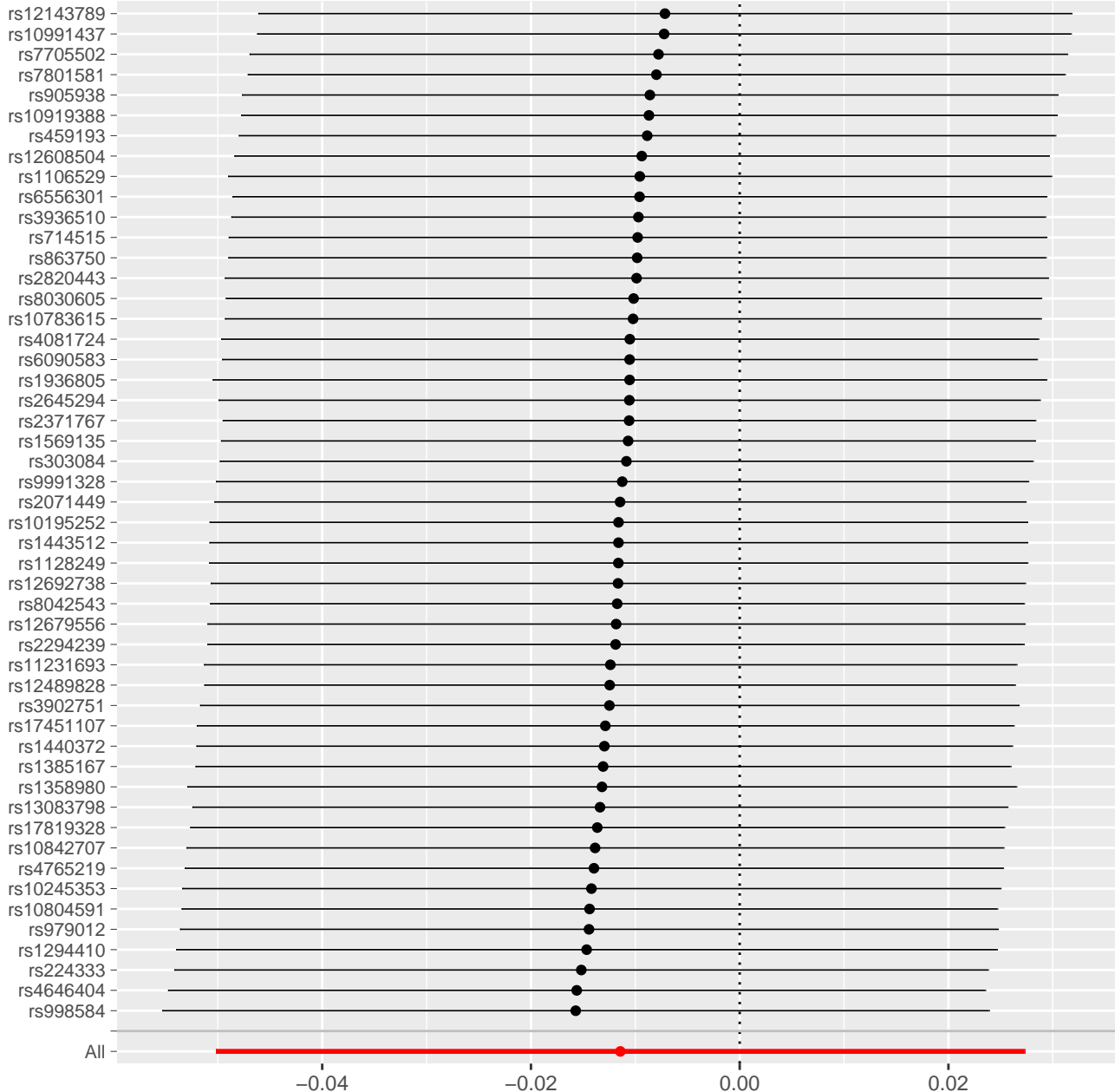
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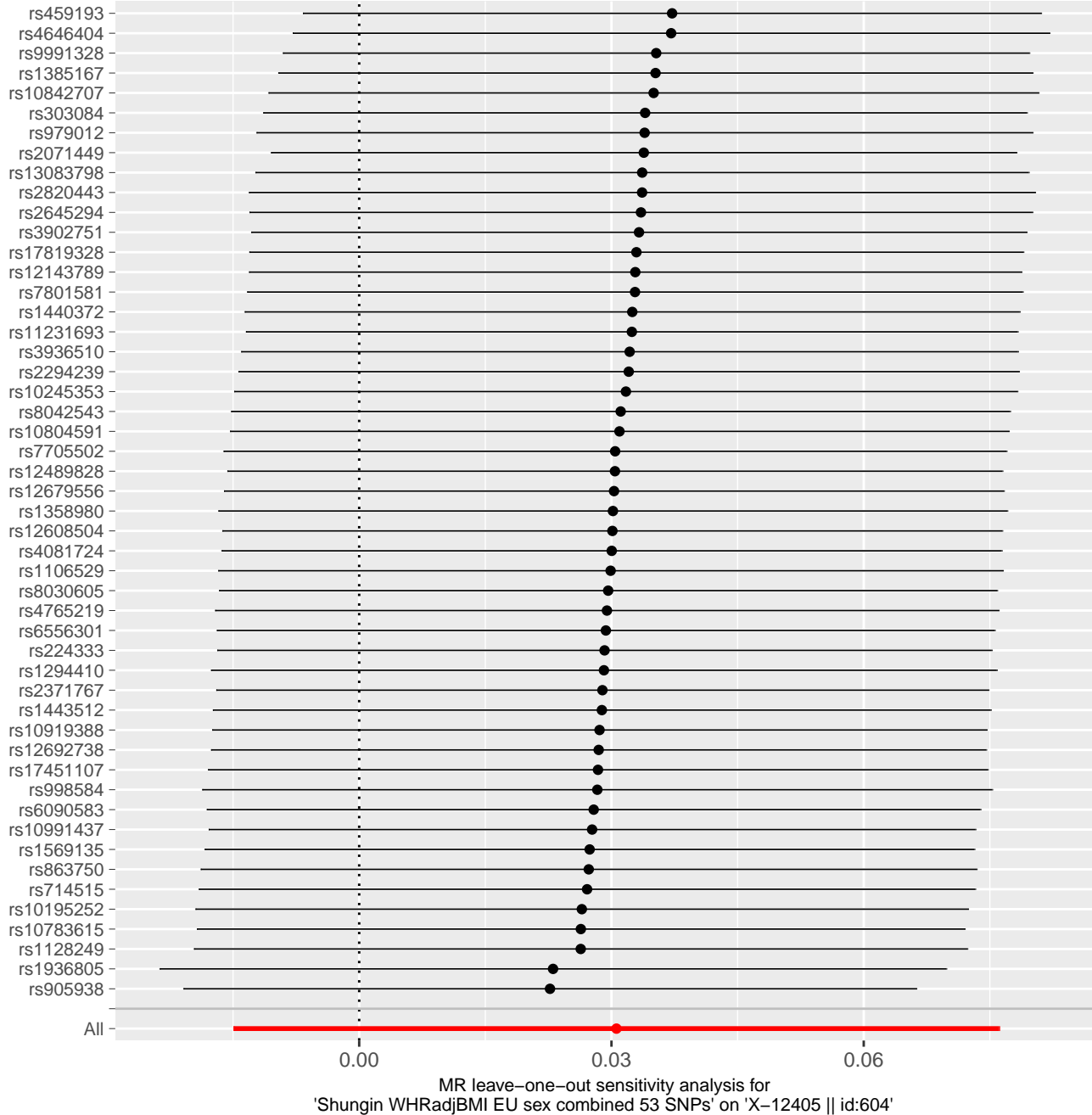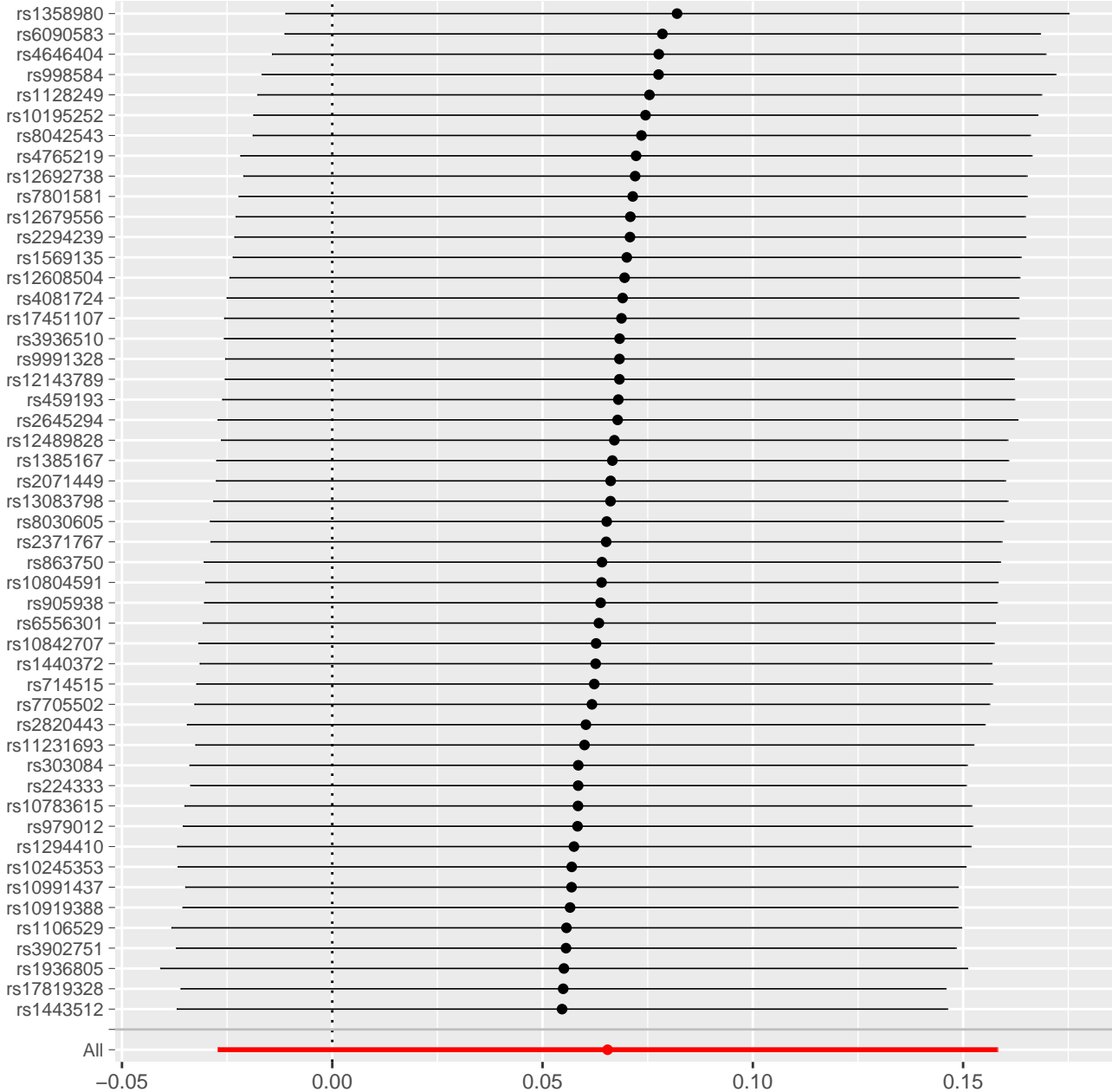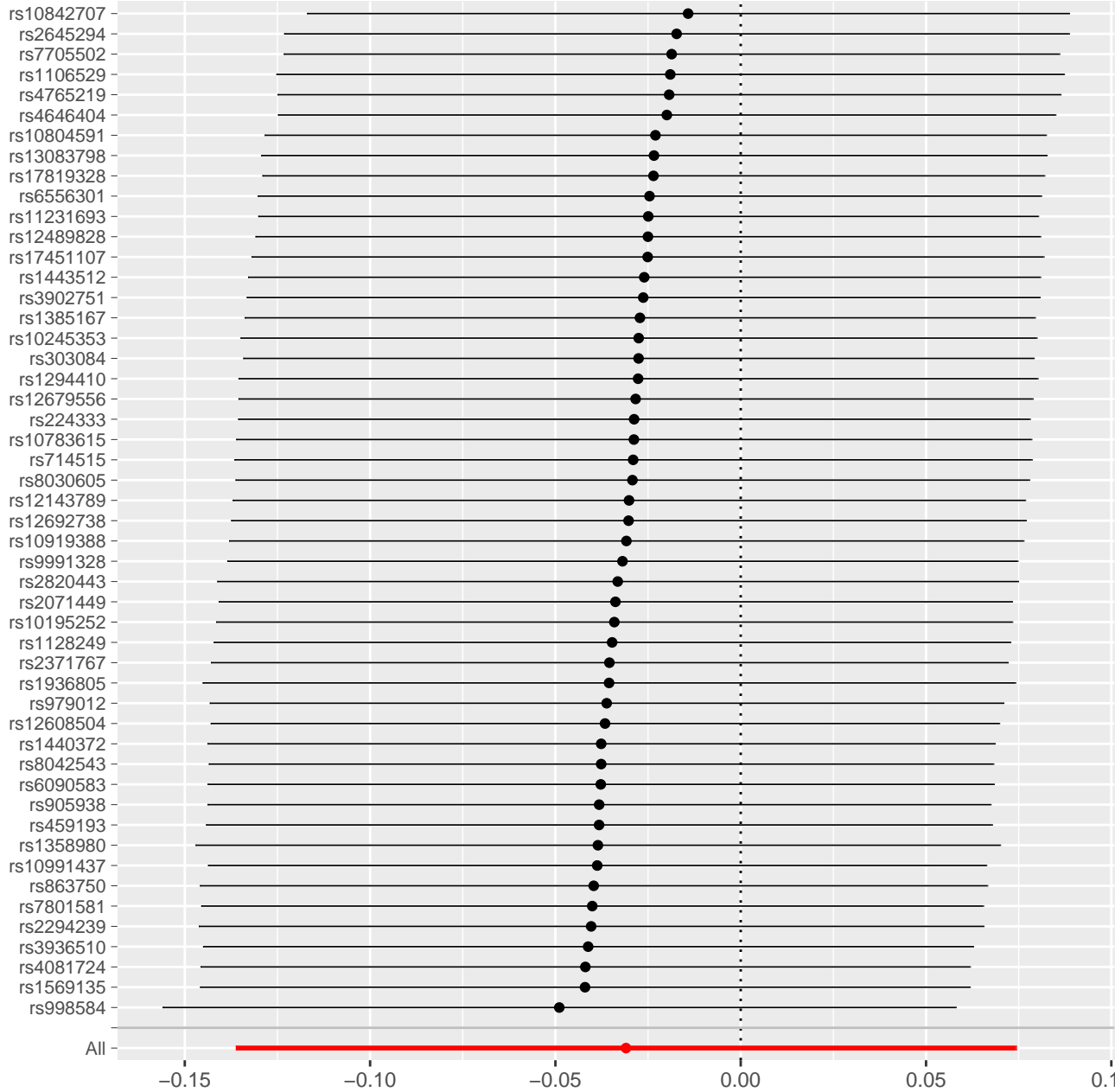'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−eicosatrienoylglycerophosphocholine* || id:602'

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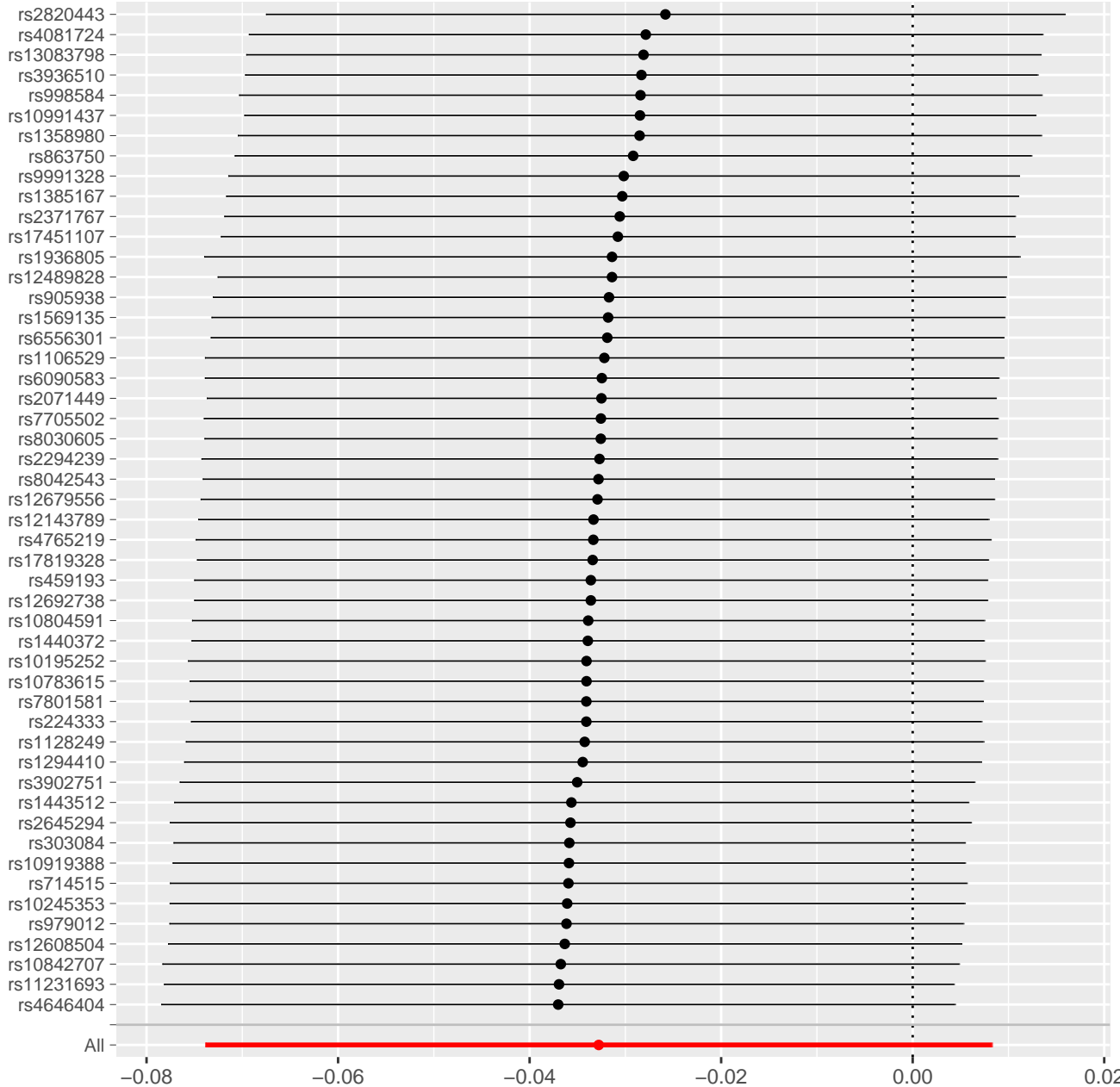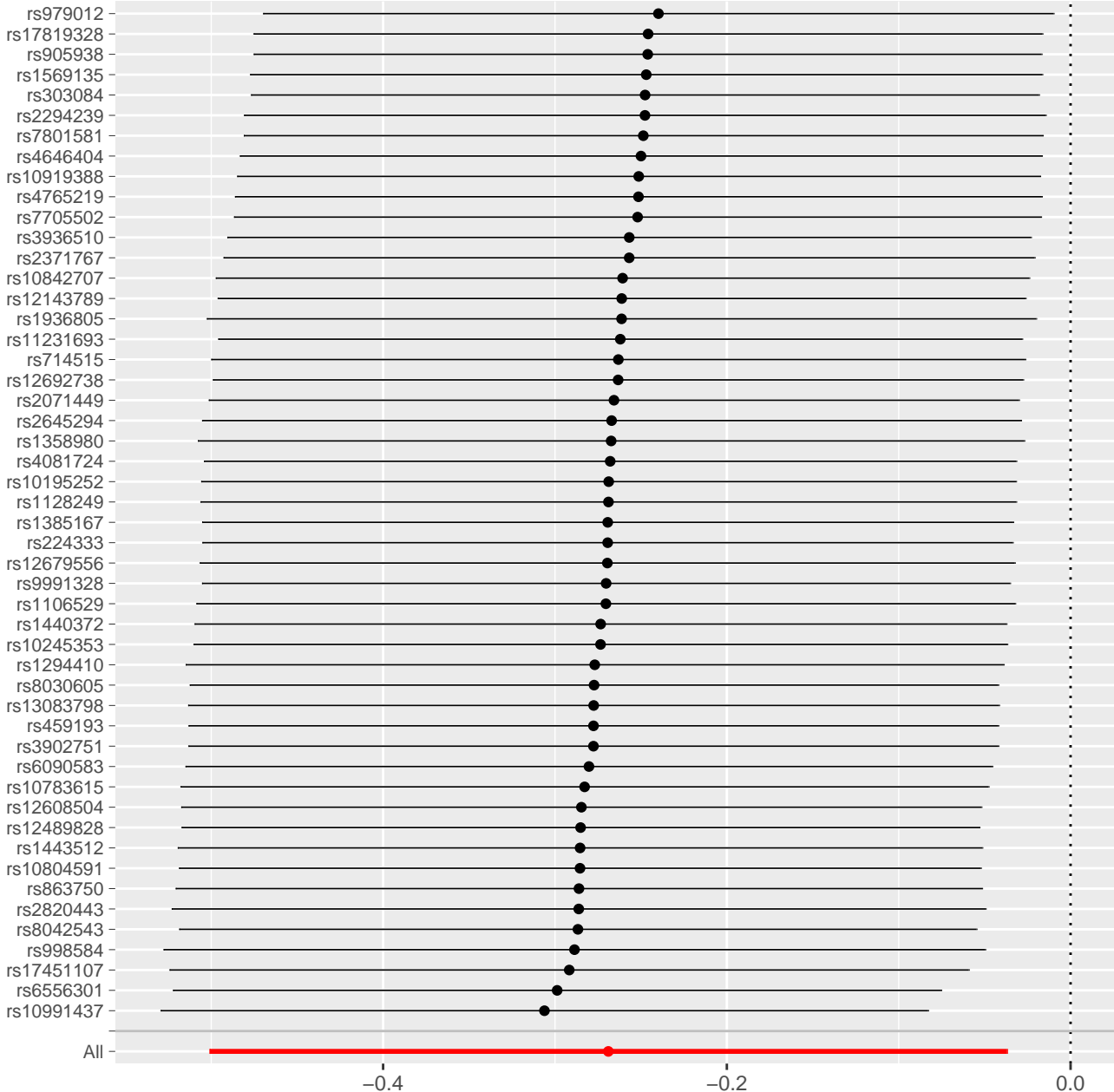'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12405 || id:604'

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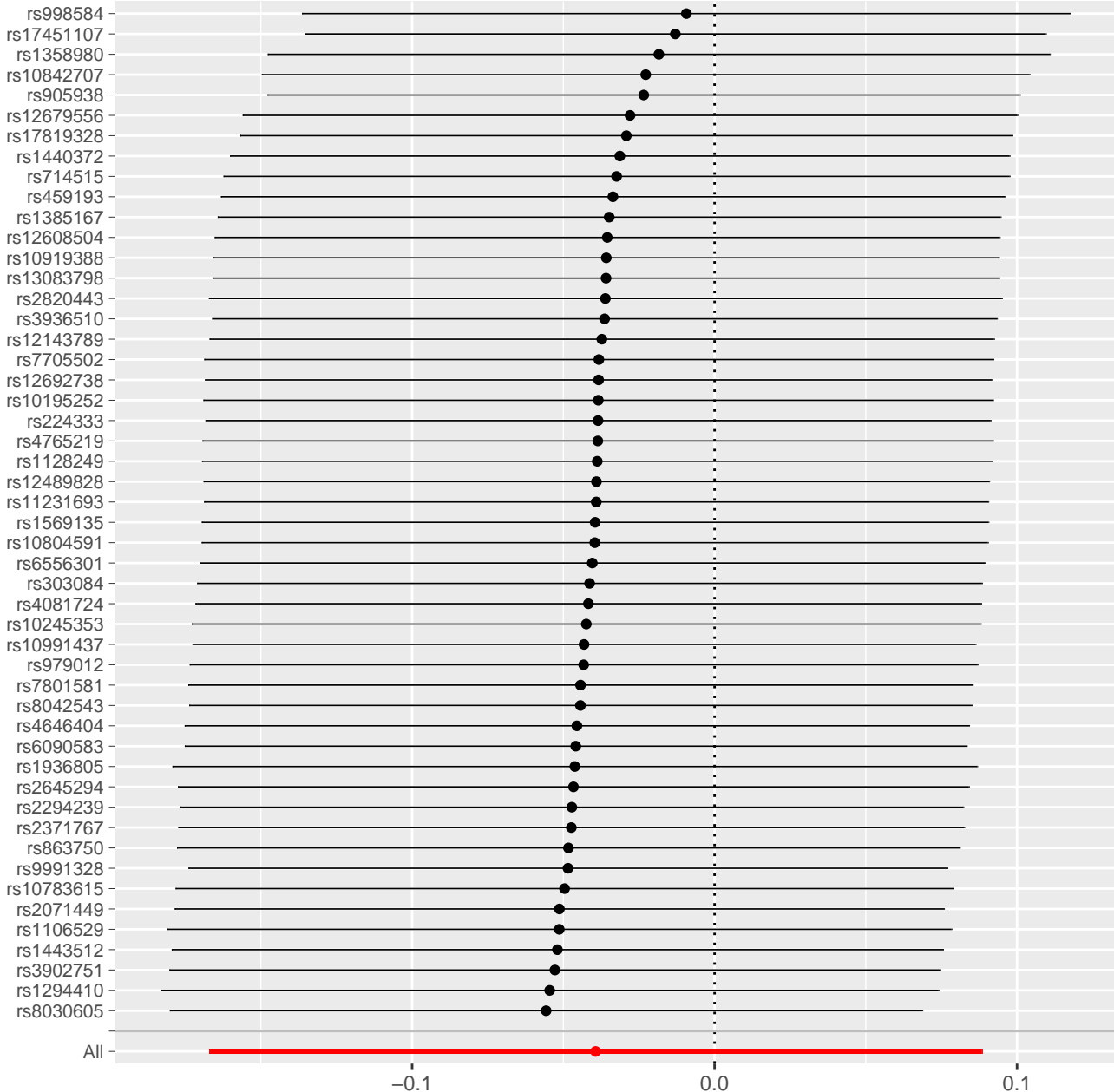
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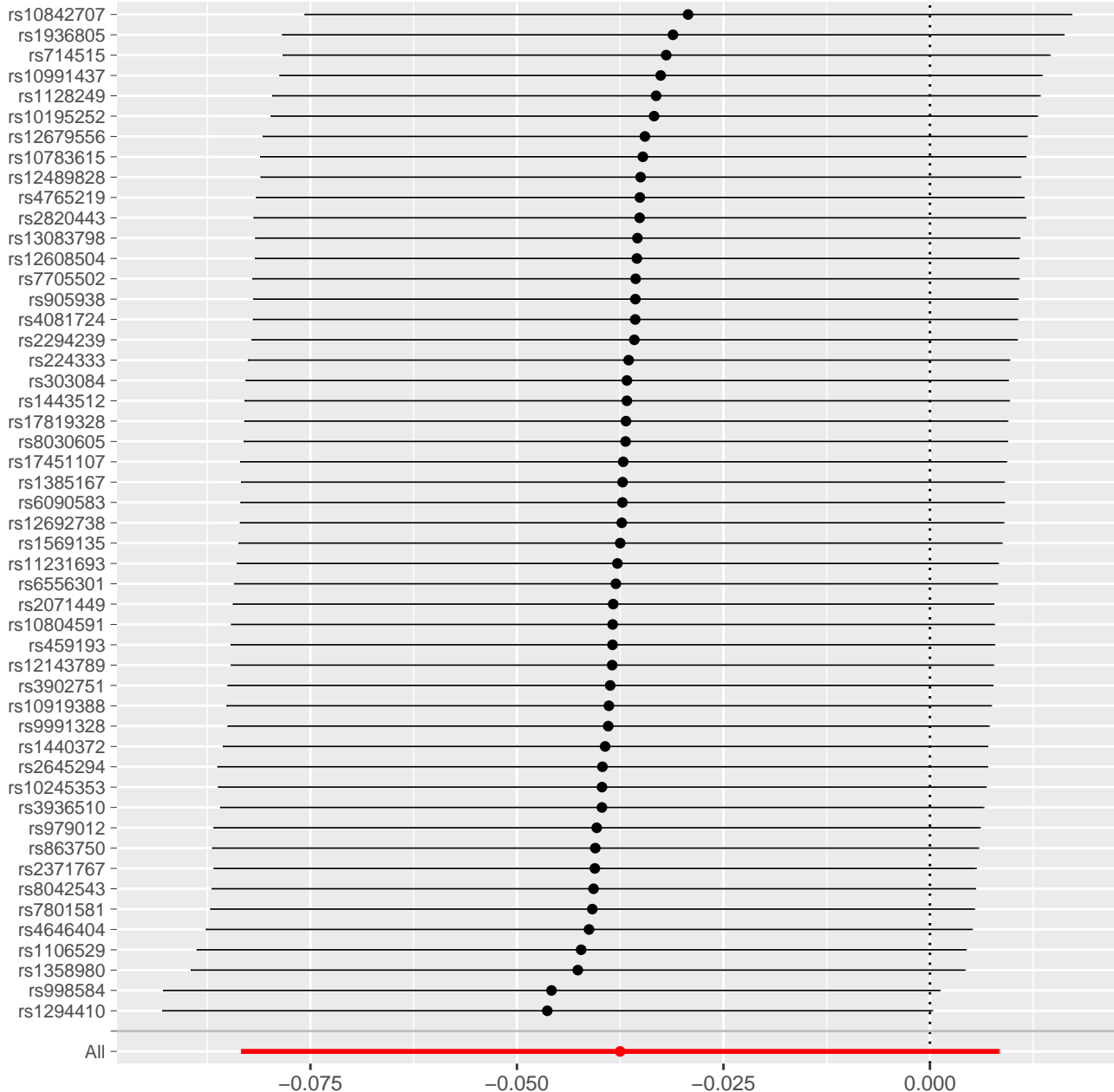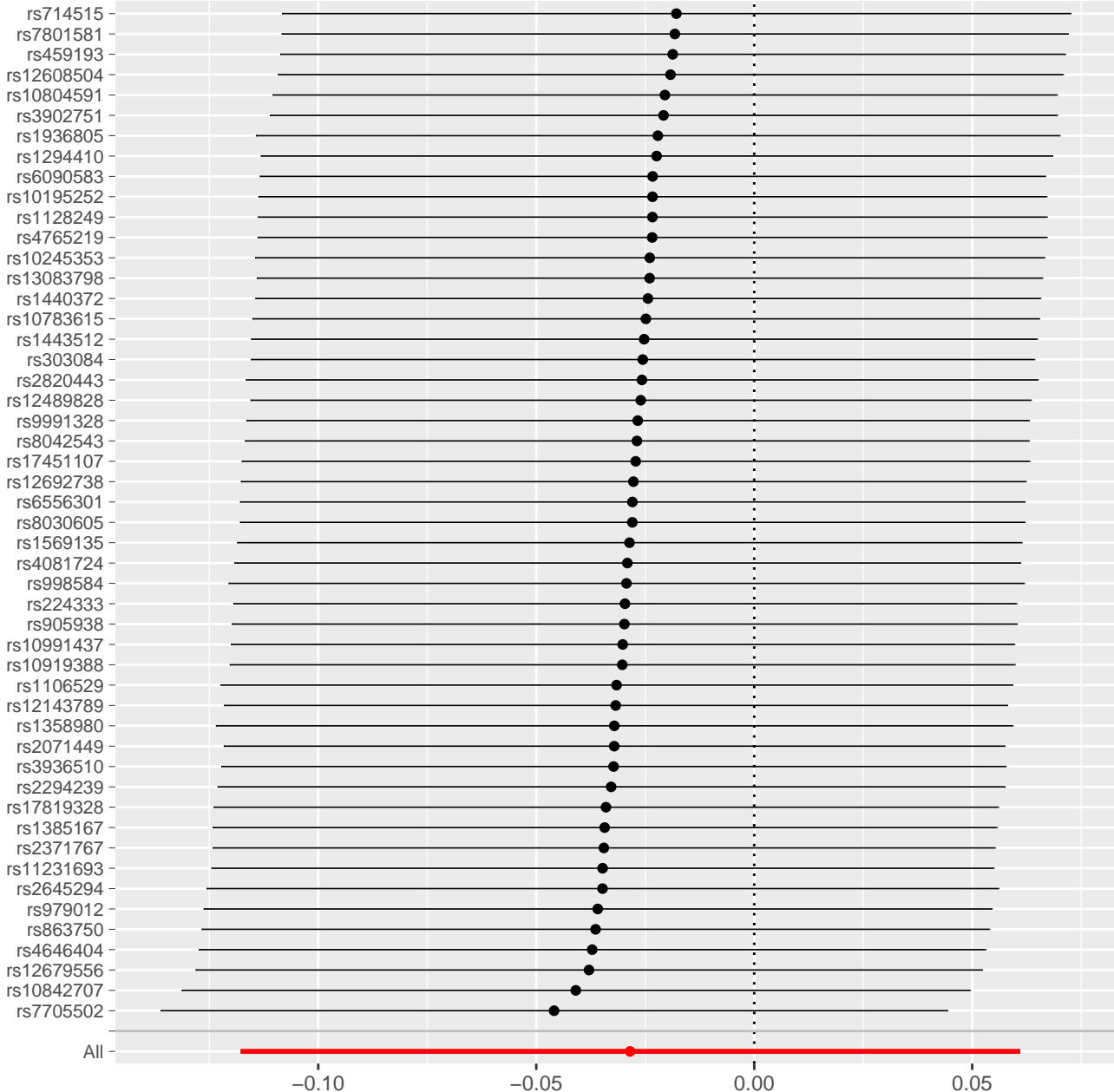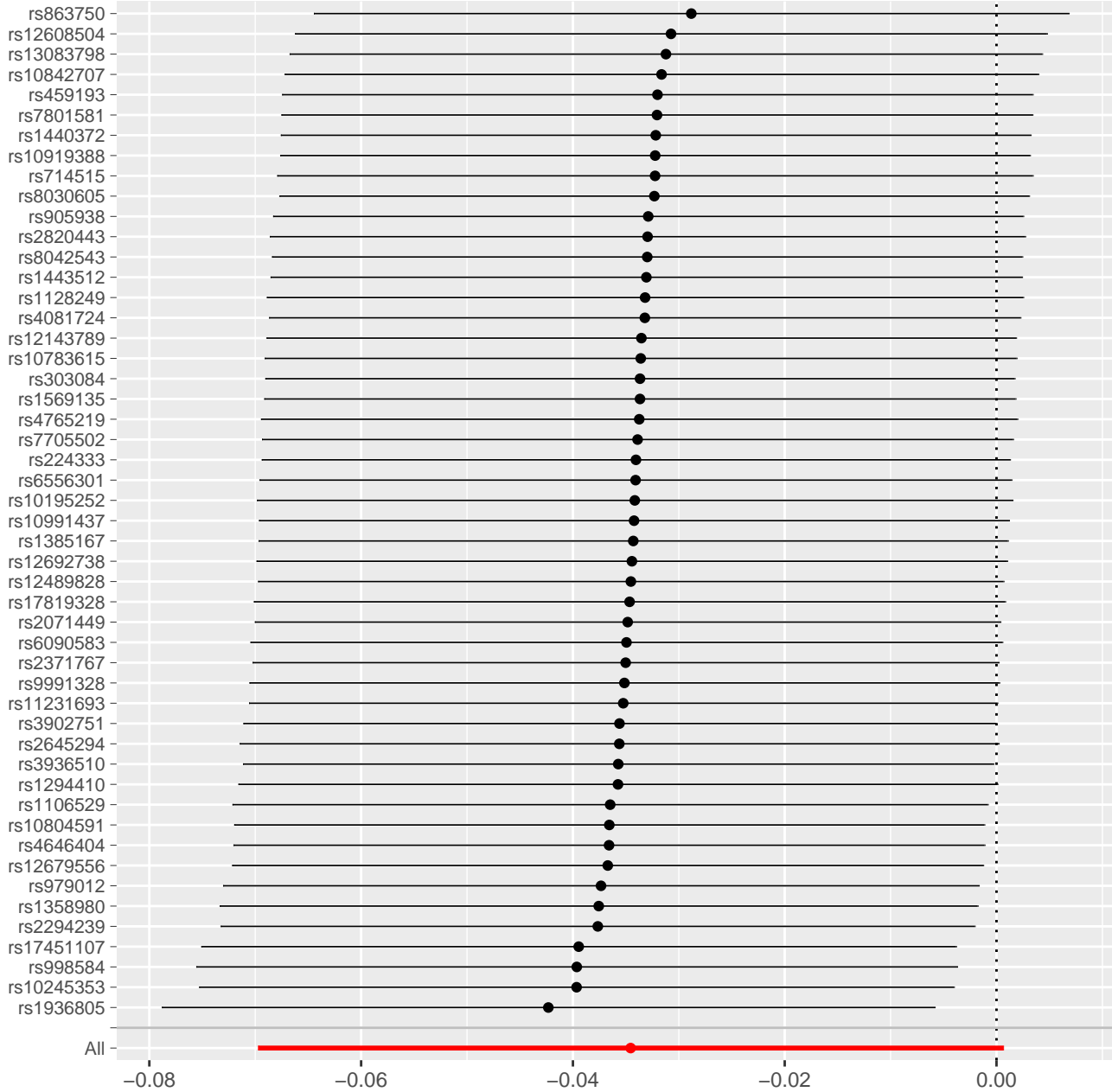'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12435 || id:608'

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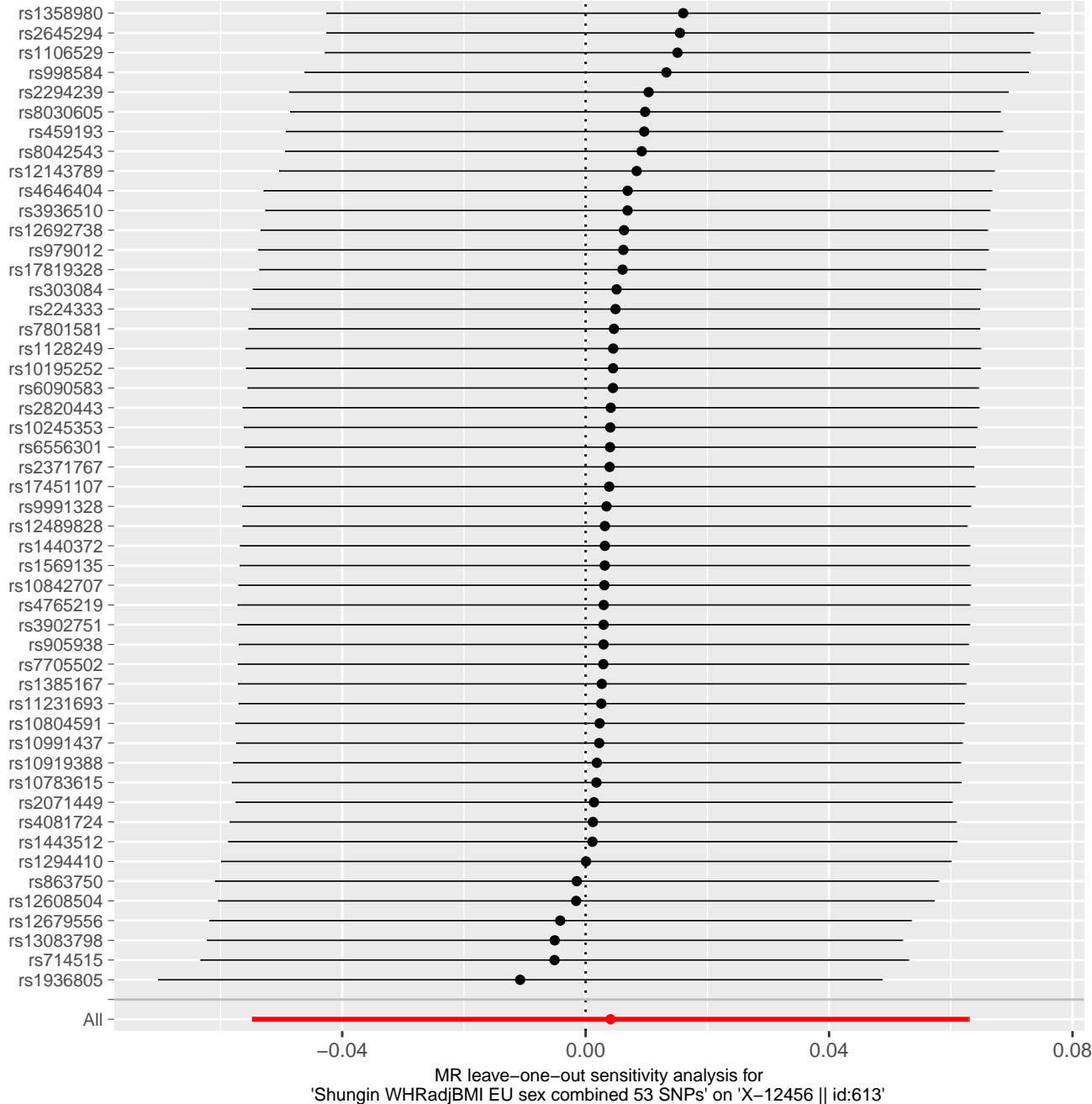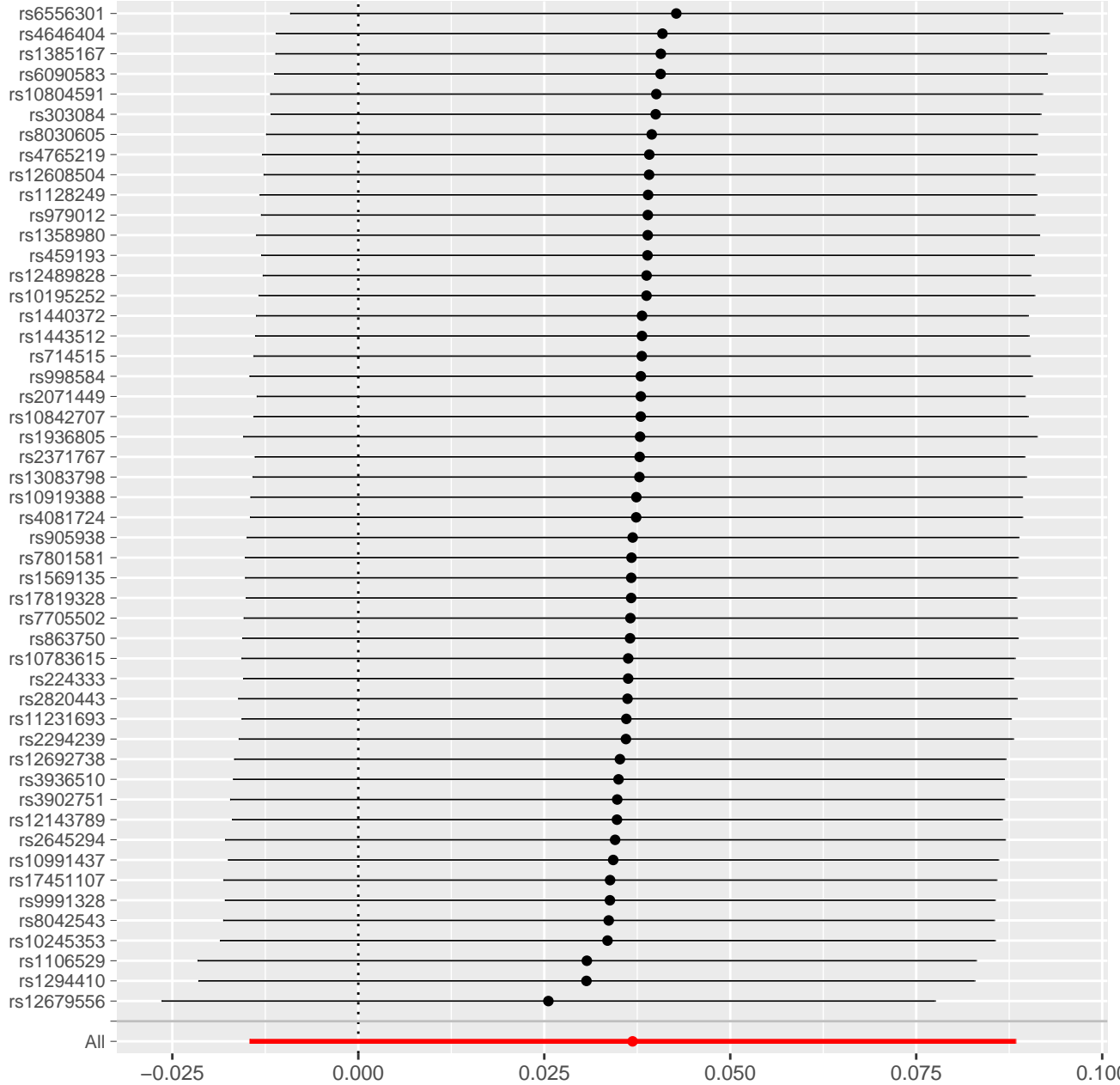
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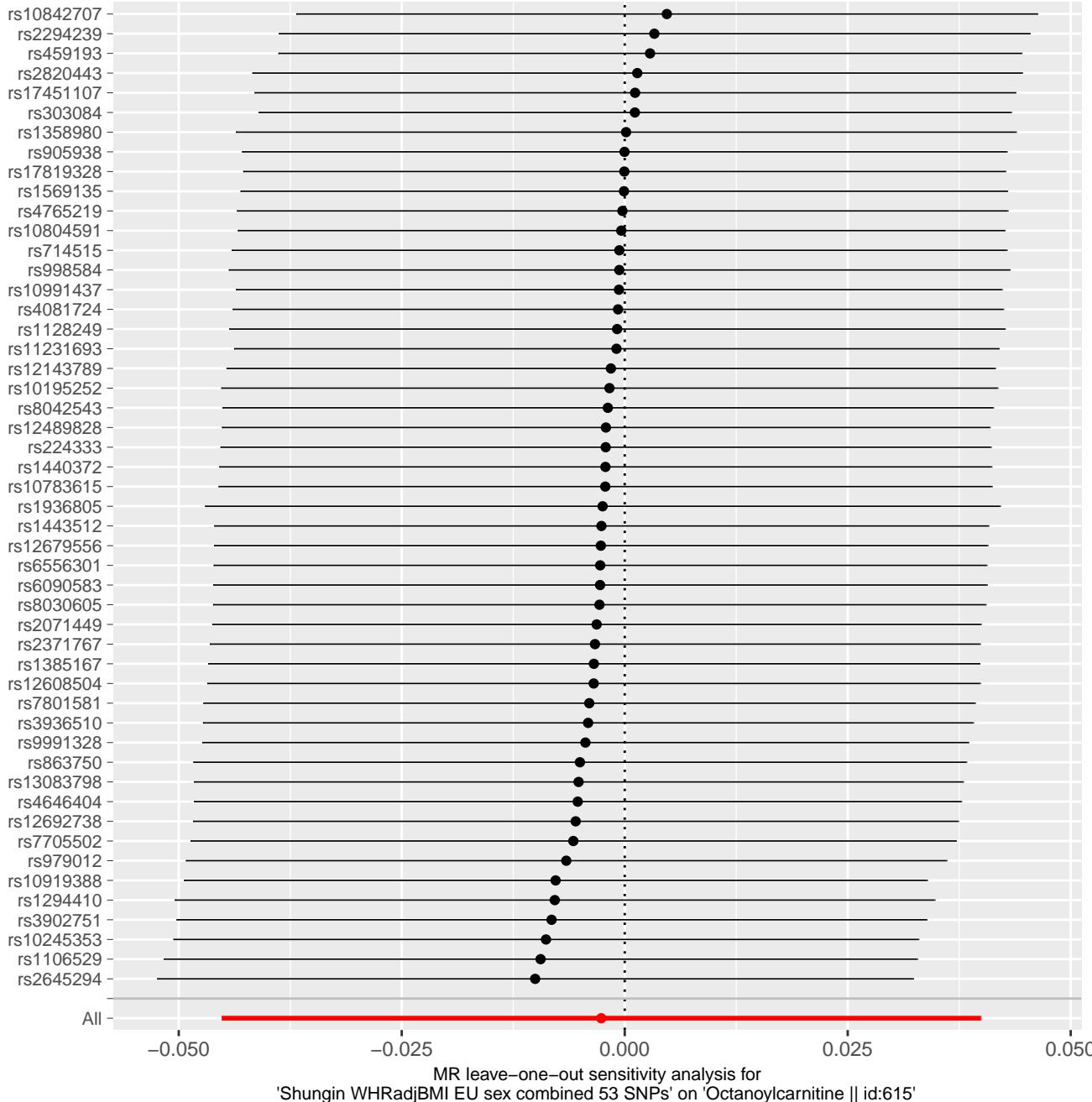'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12442−−5,8−tetradecadienoate || id:610'

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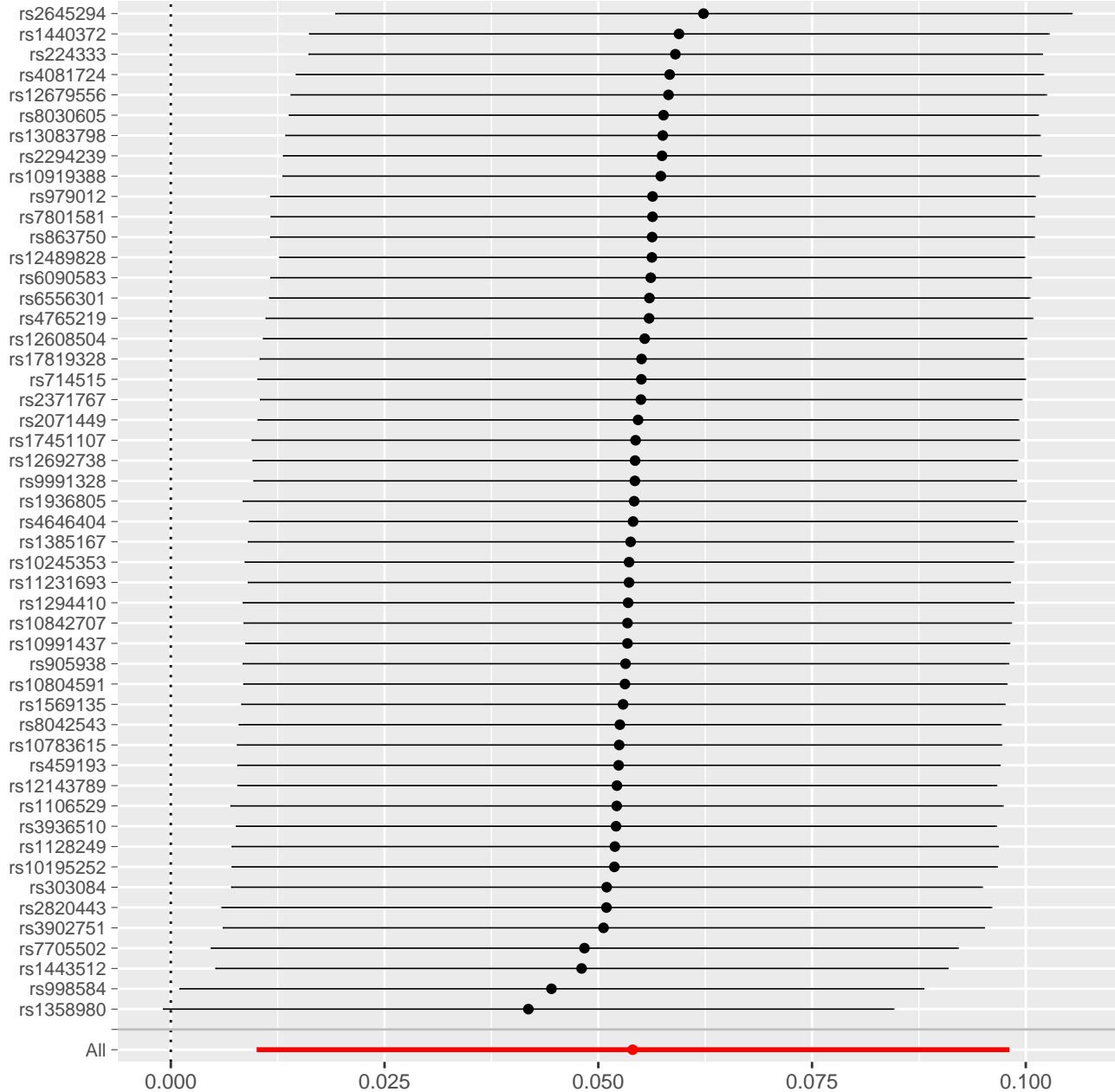
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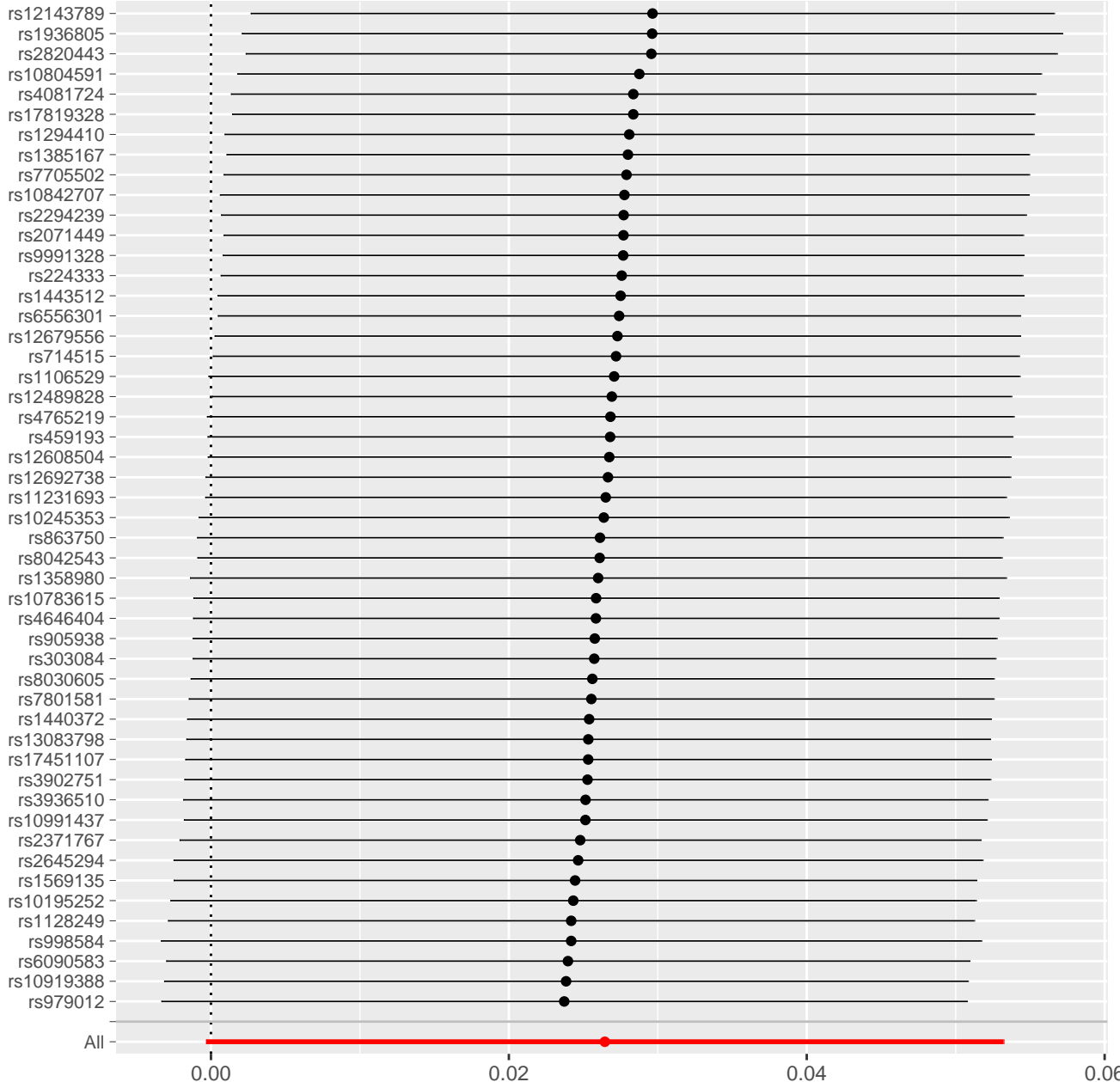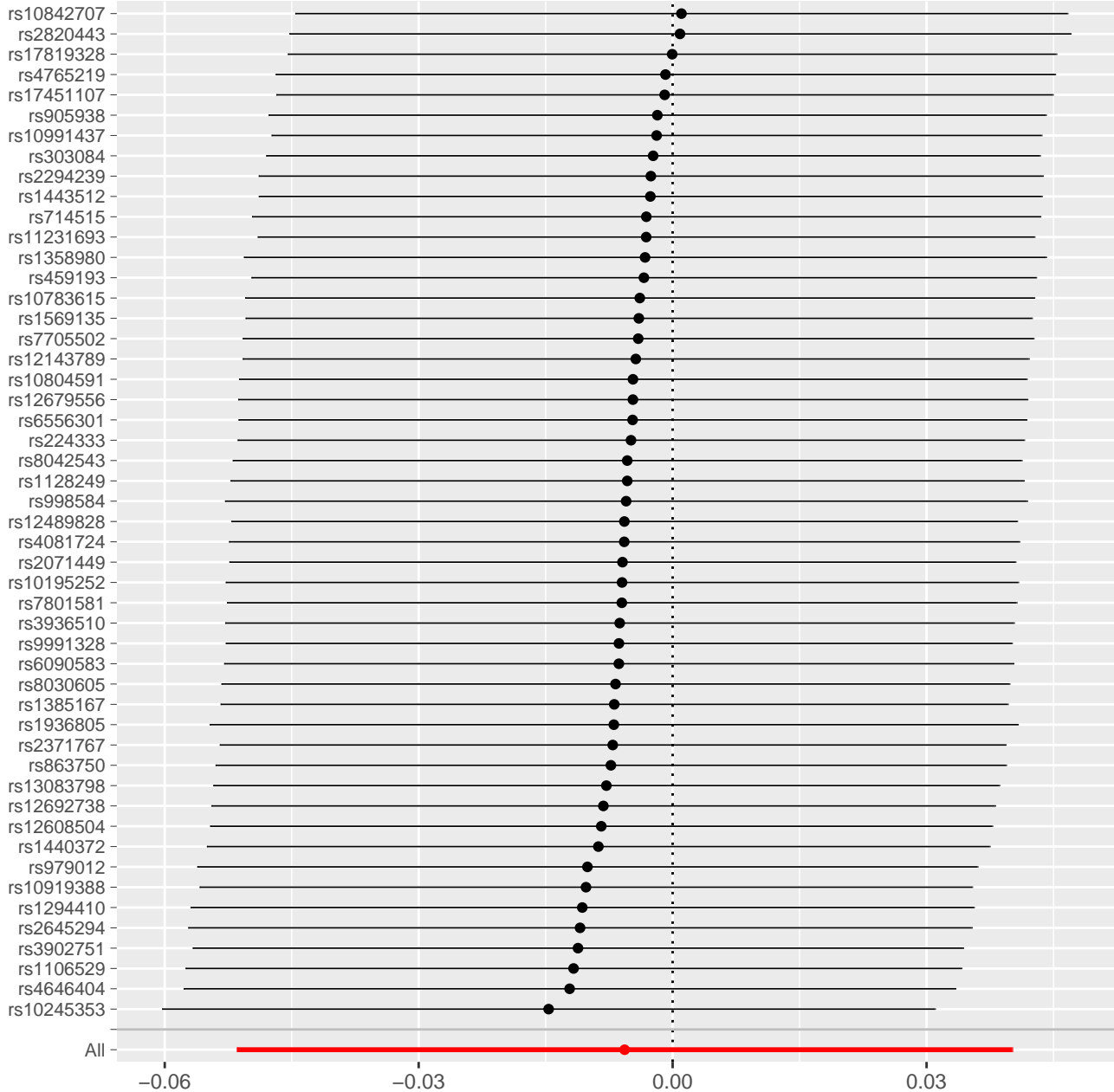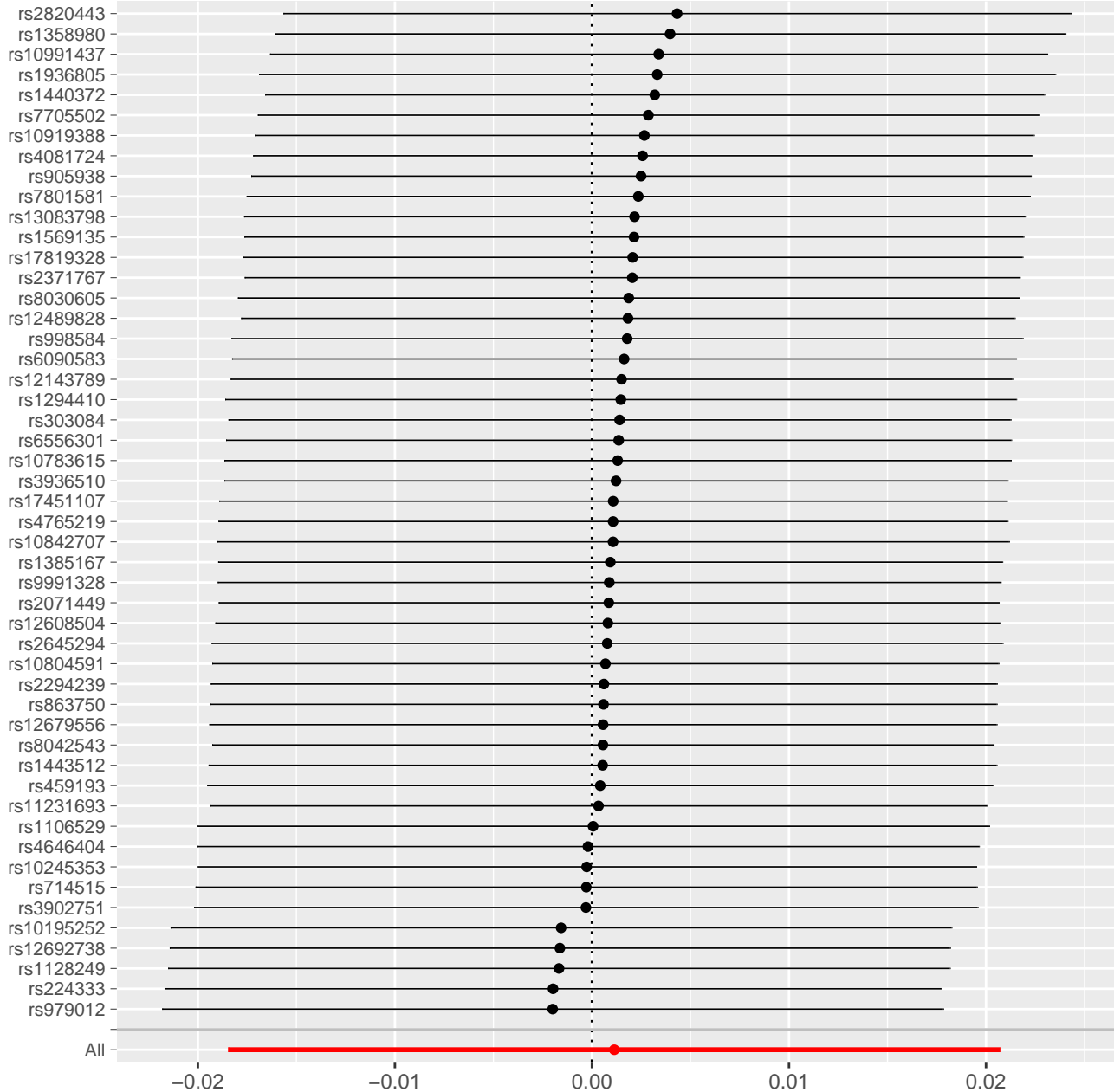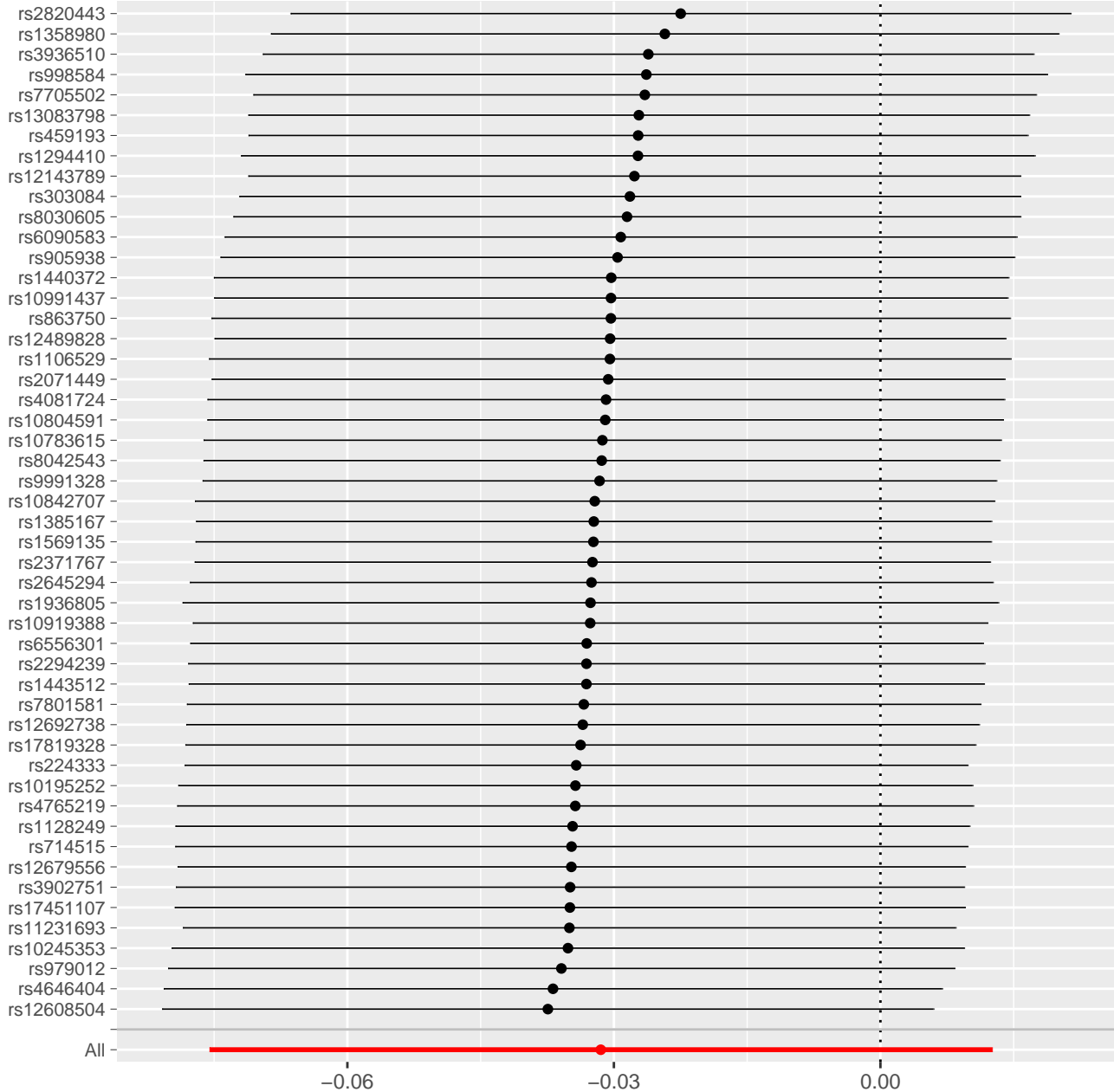
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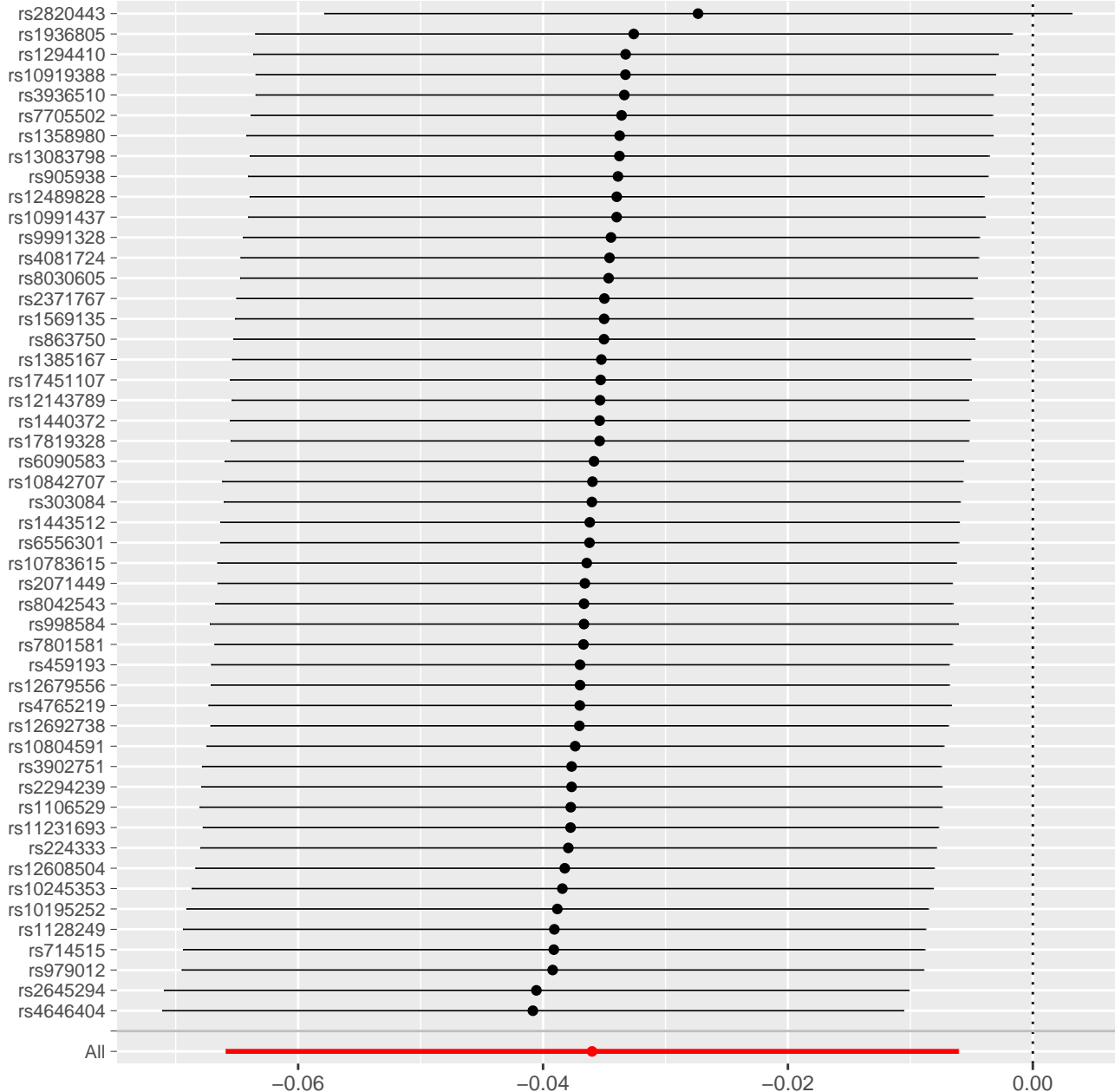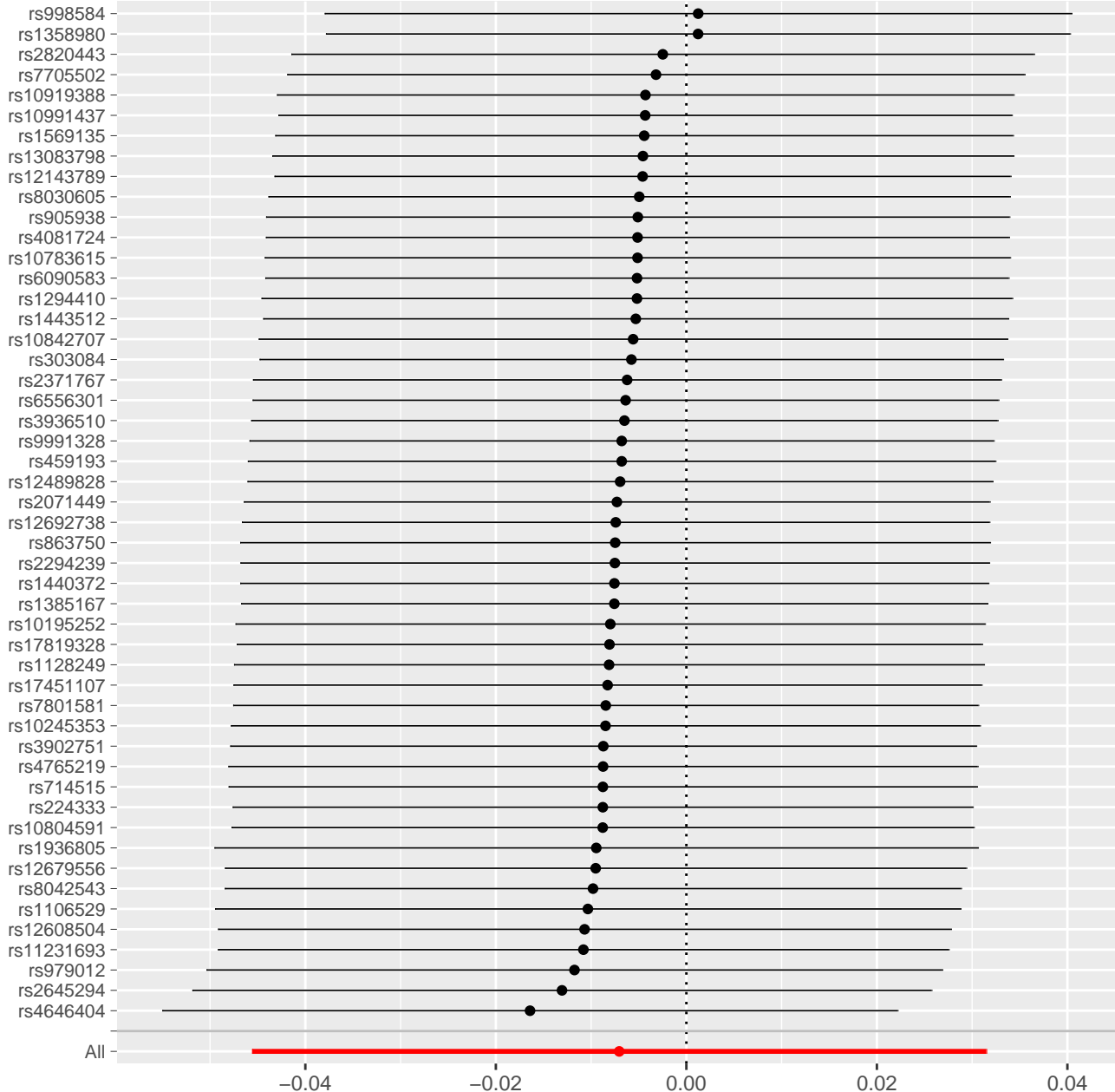'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−palmitoylglycerophosphocholine || id:619'
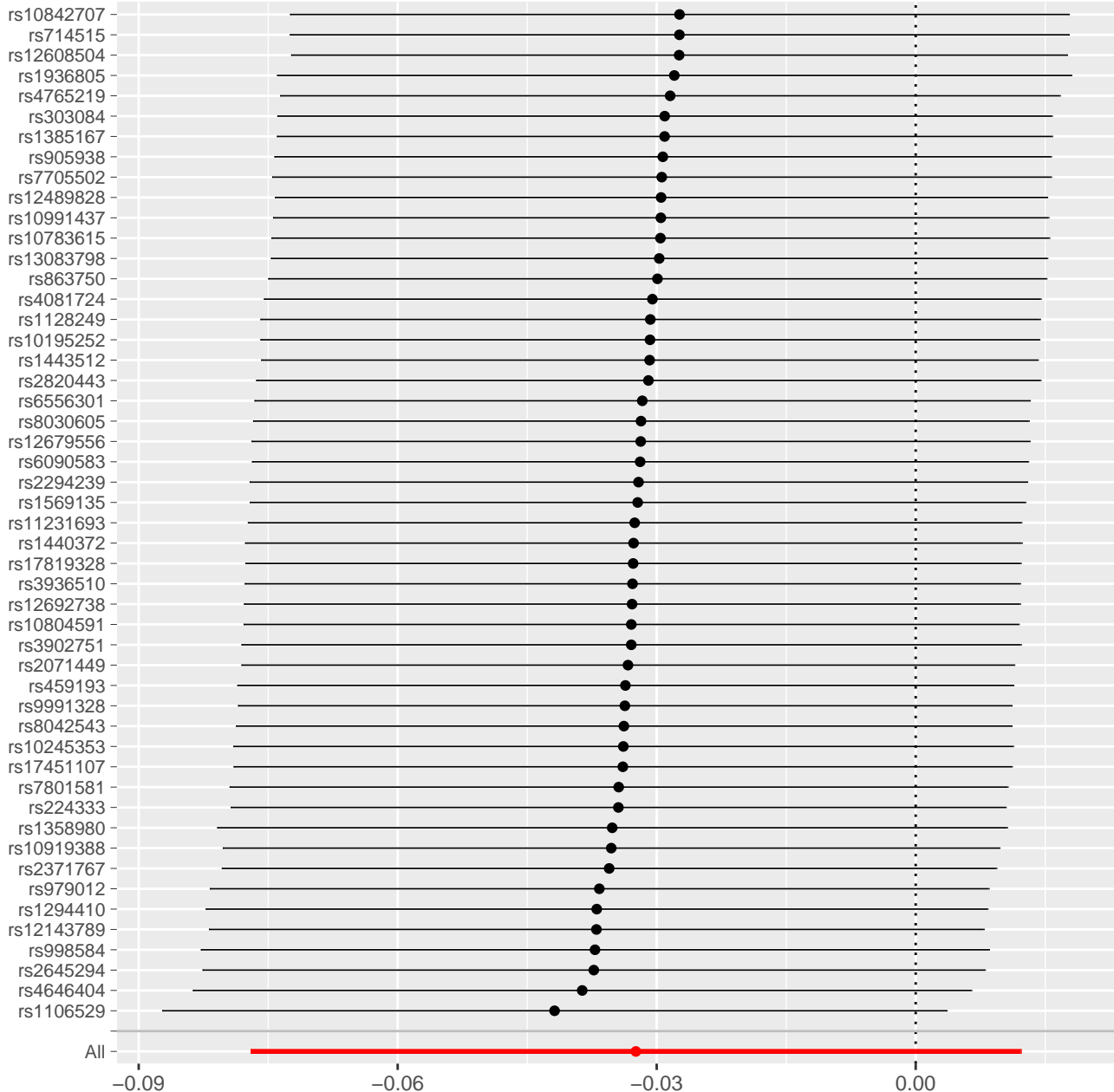
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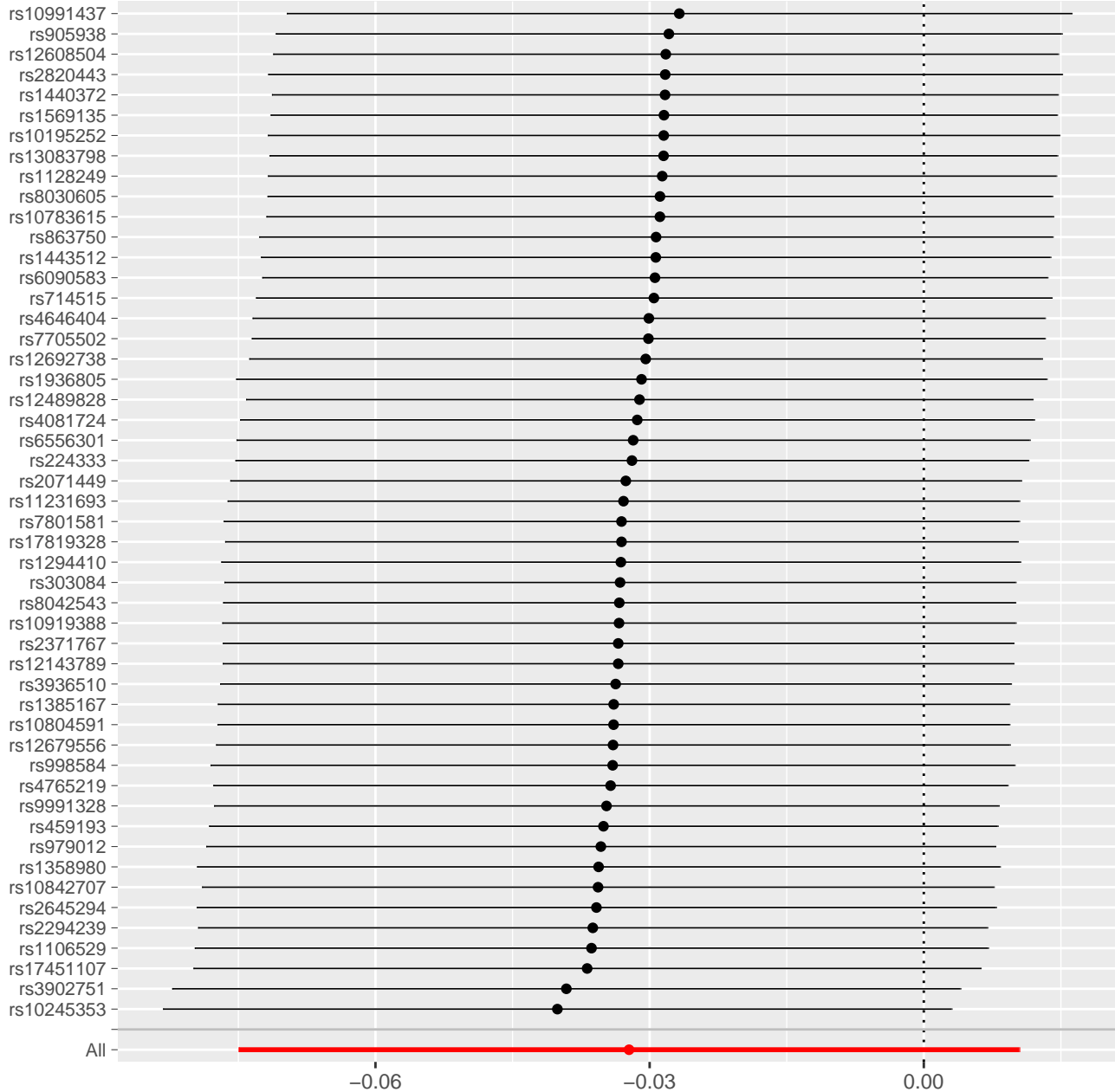'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−oleoylglycerophosphocholine || id:621'

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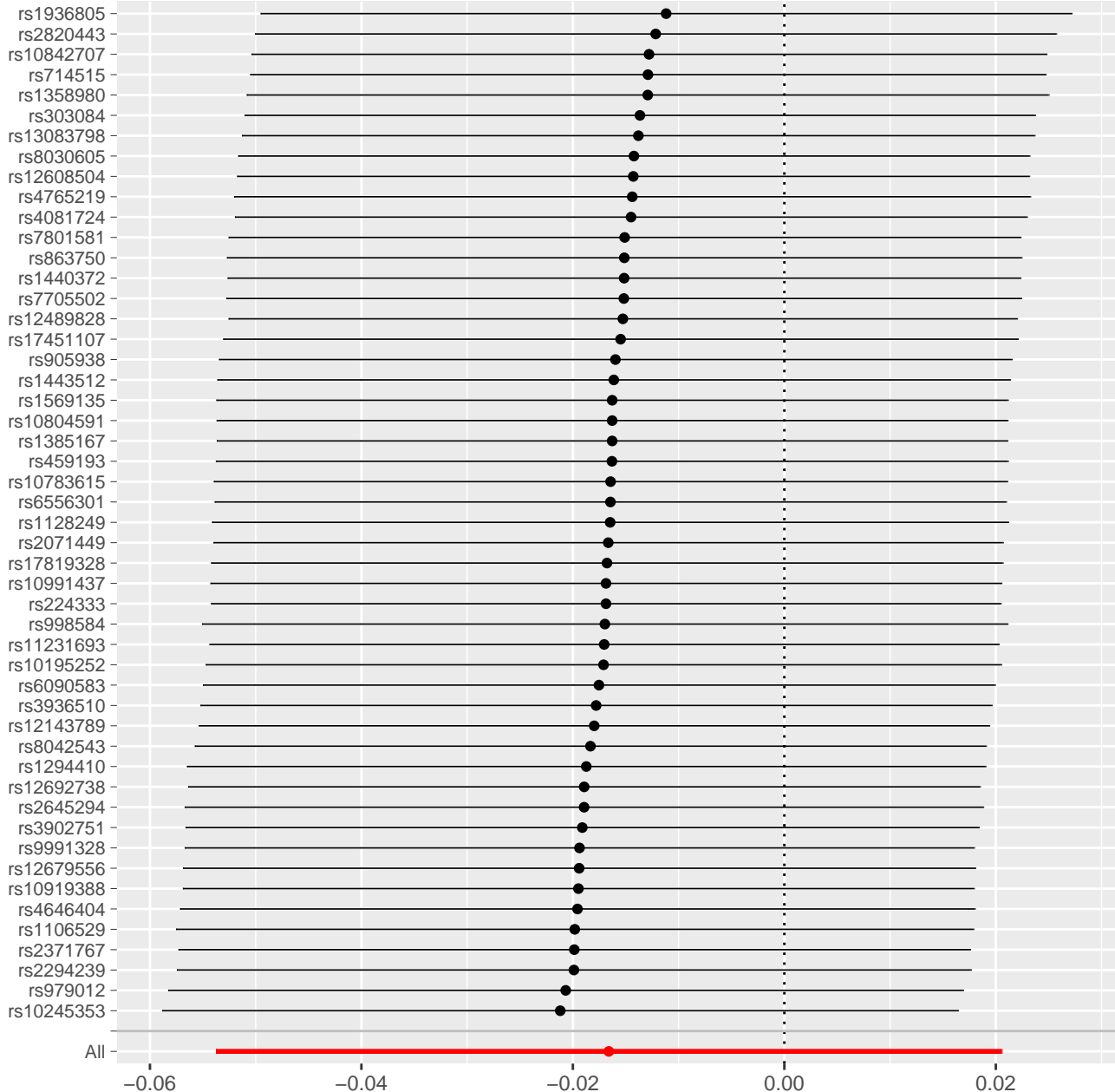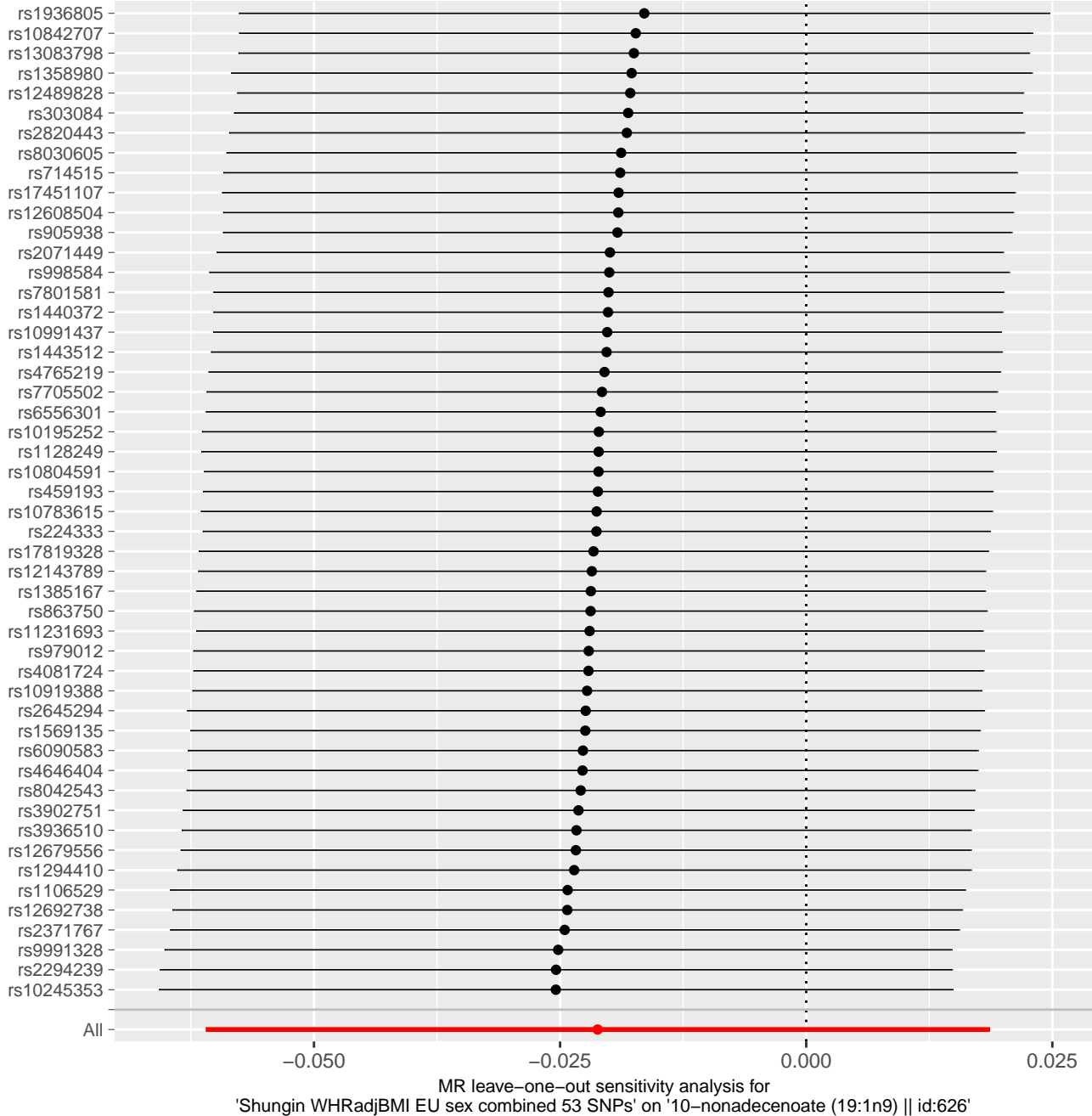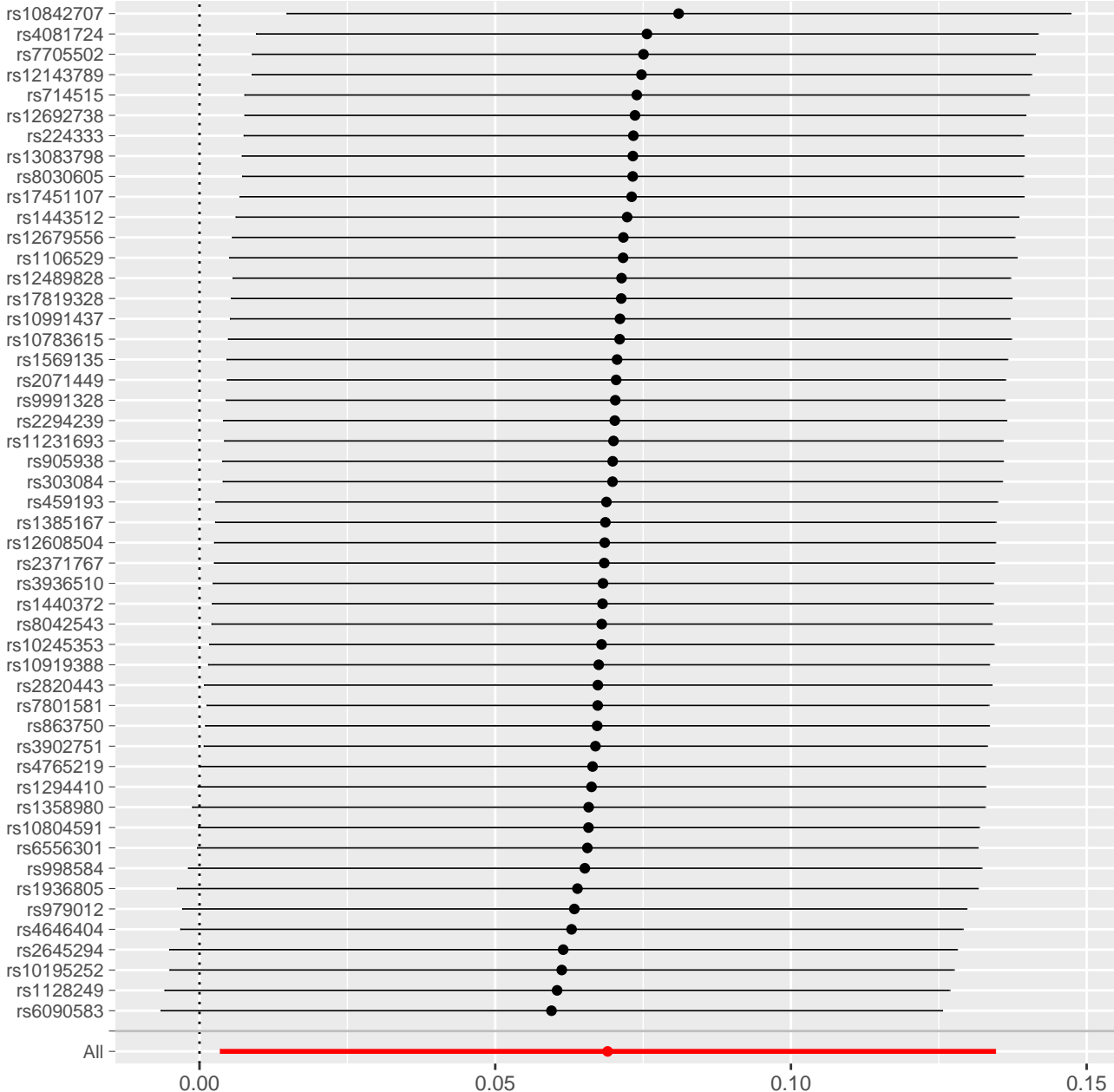'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−stearoylglycerophosphocholine || id:622'

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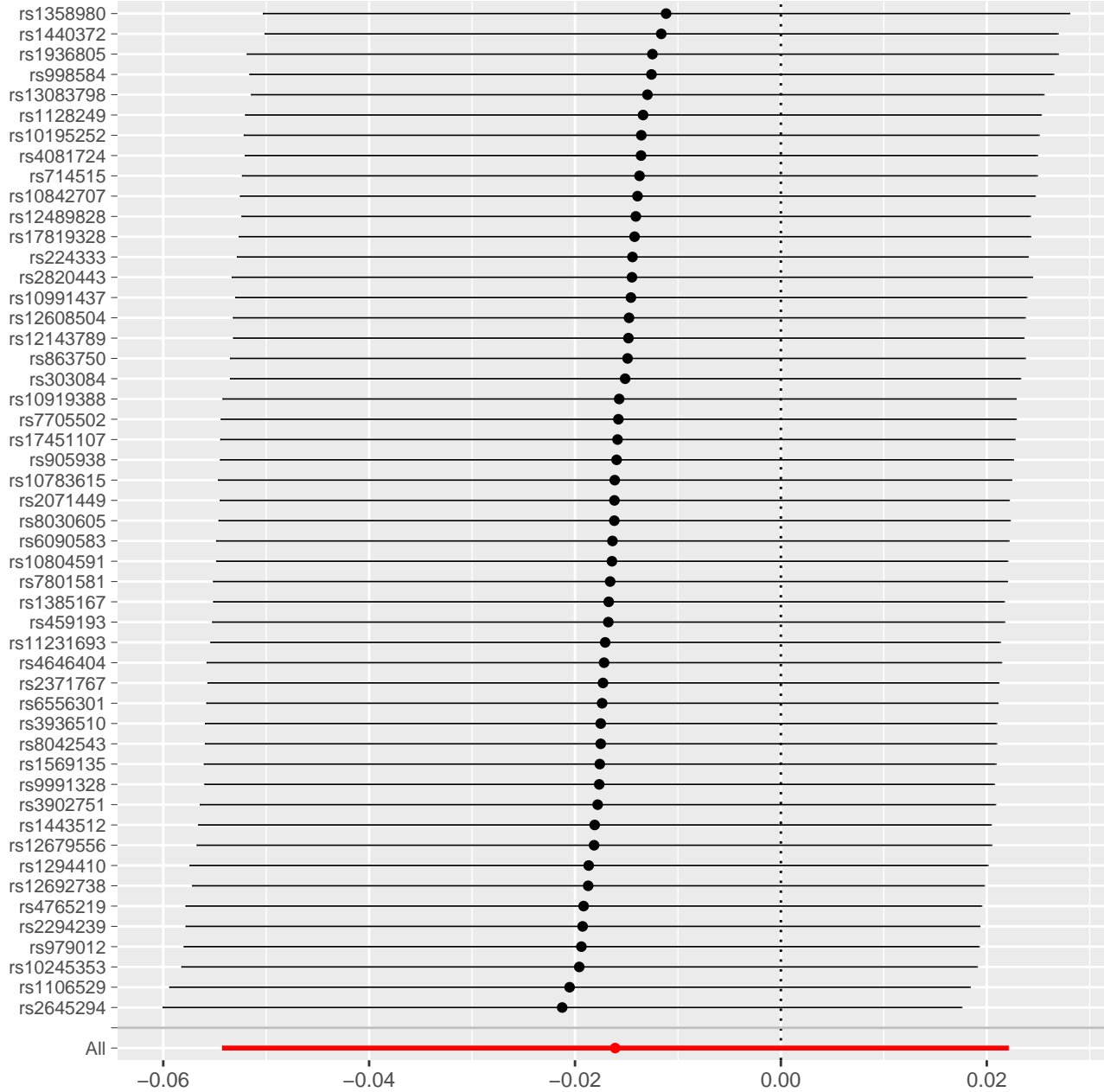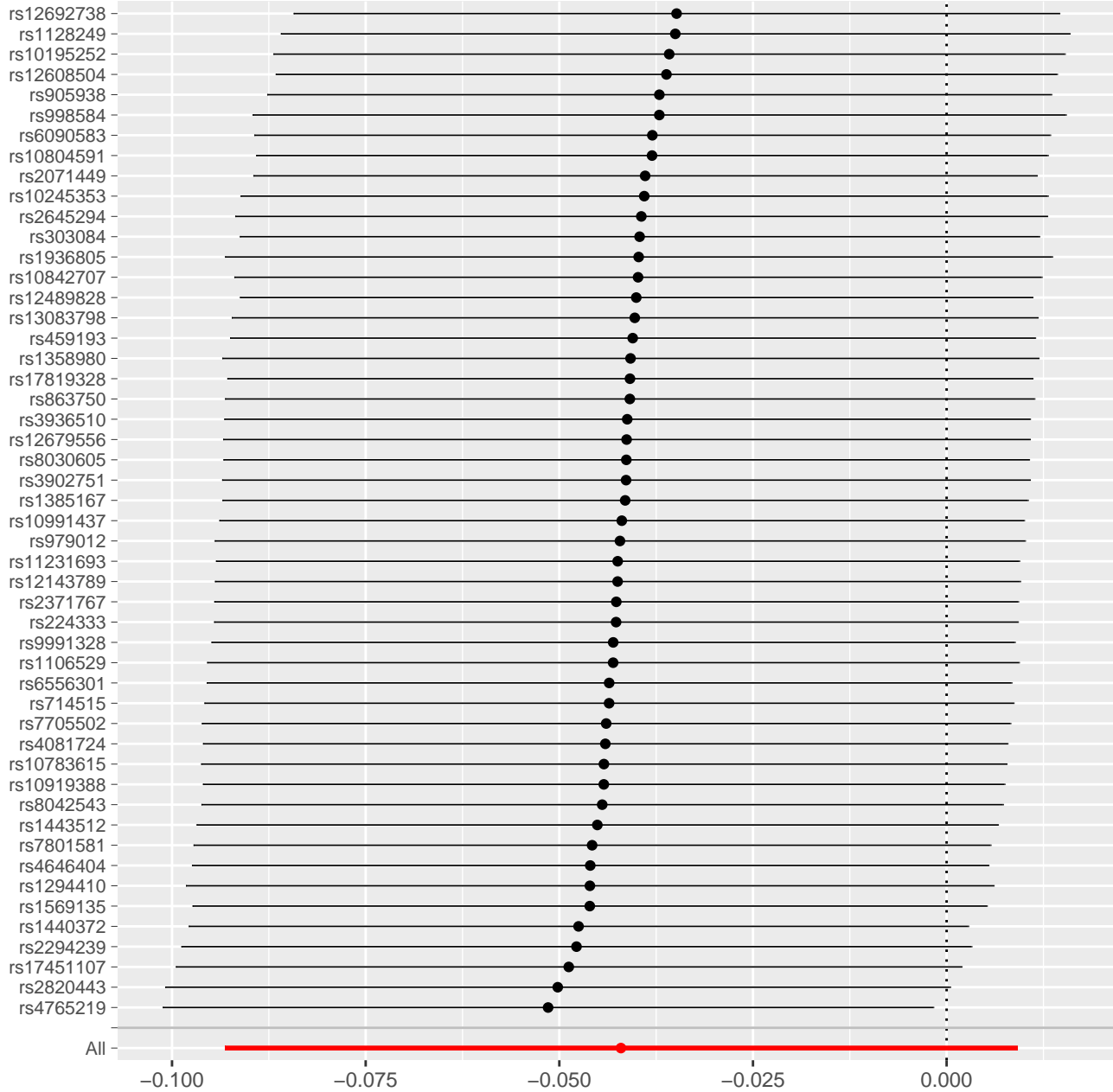
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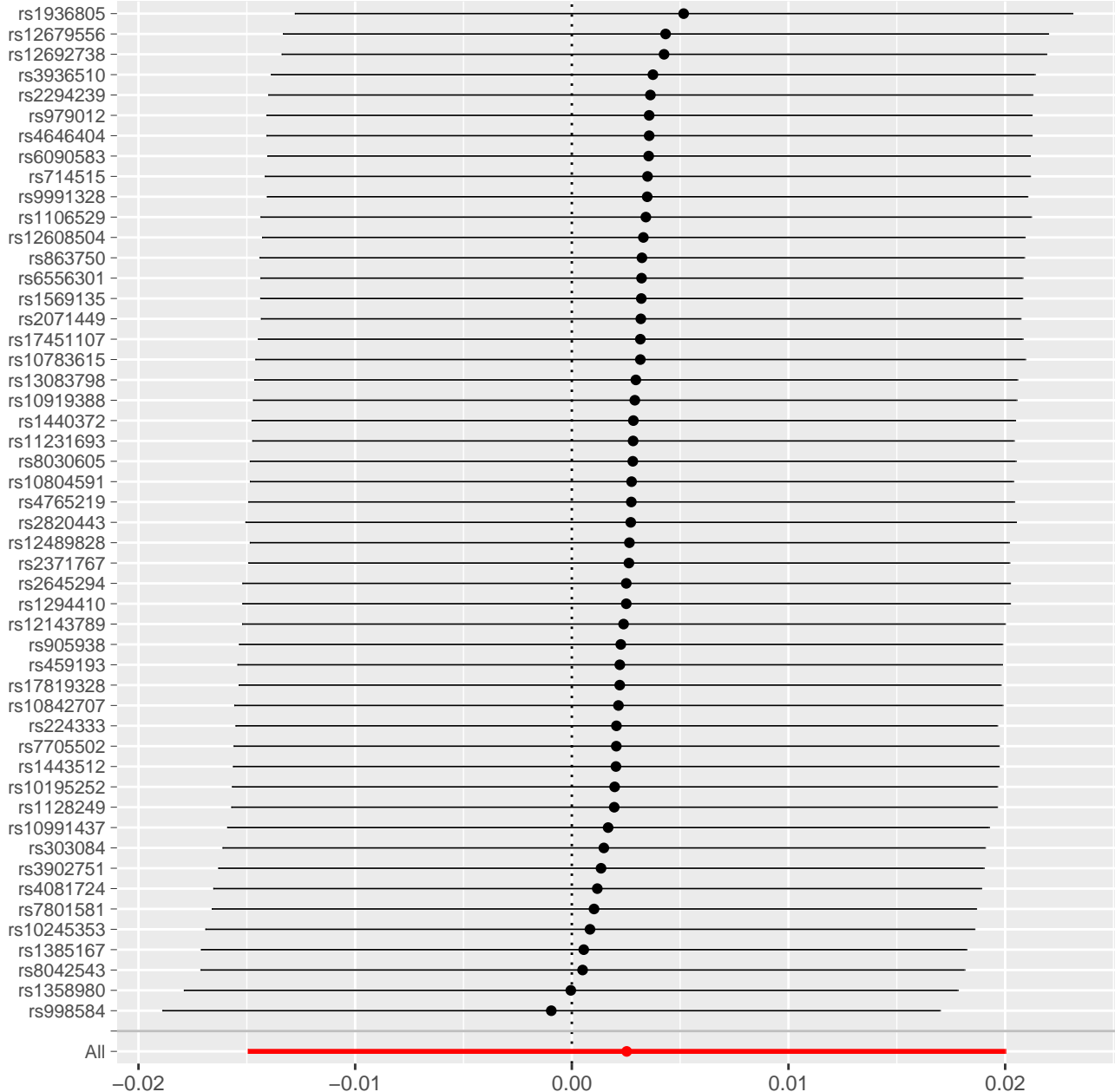'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Stearidonate (18:4n3) || id:624'

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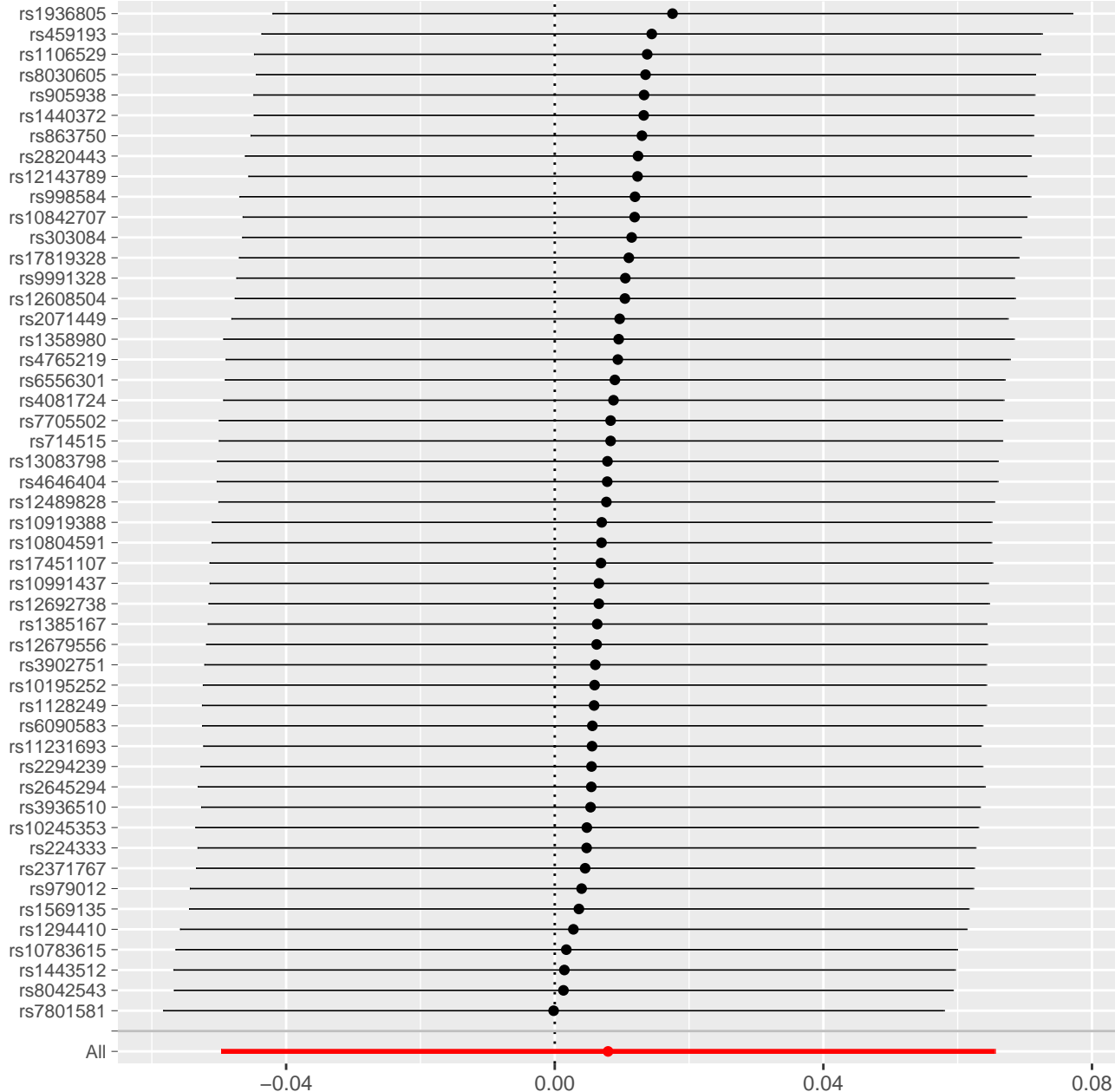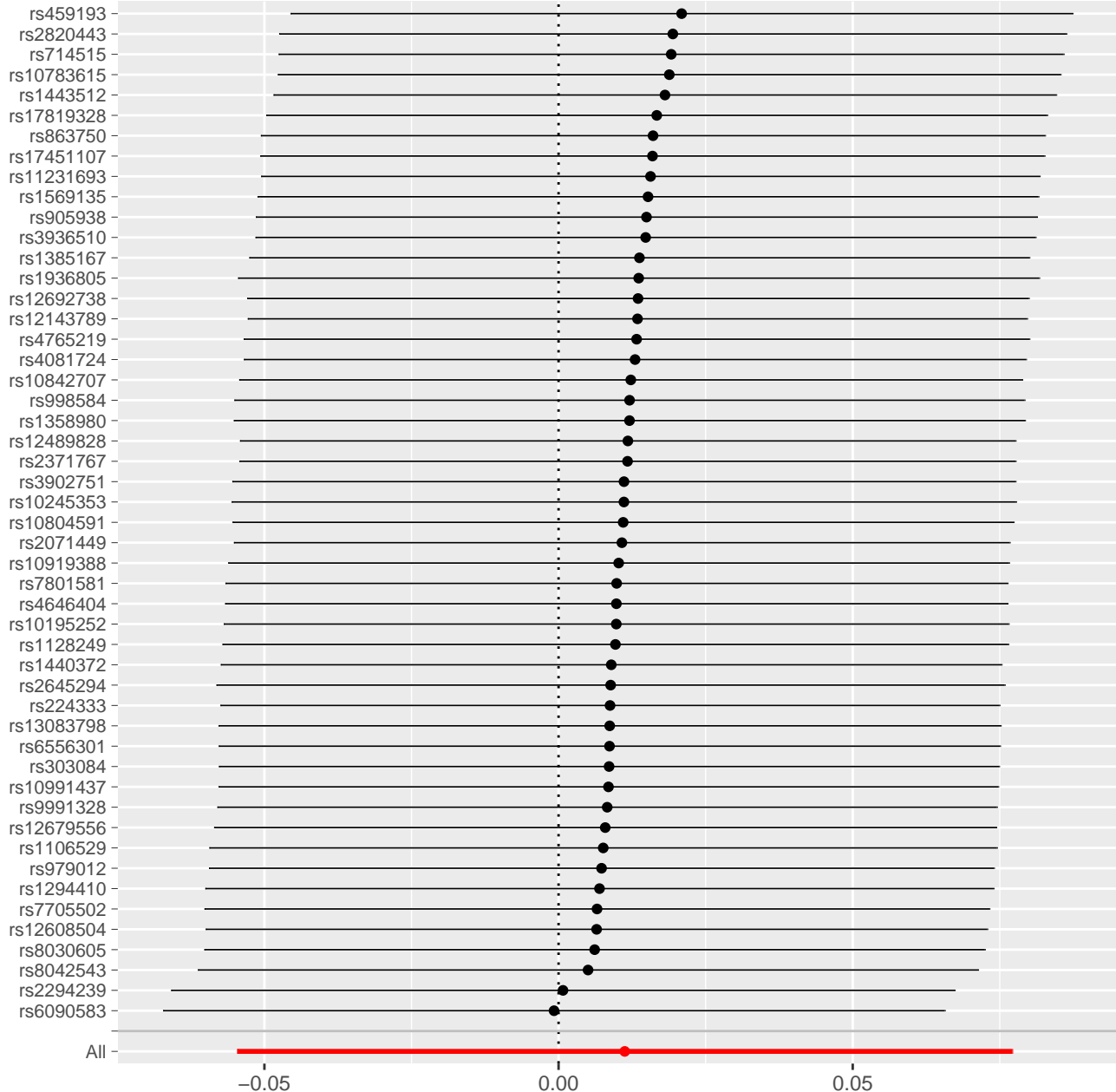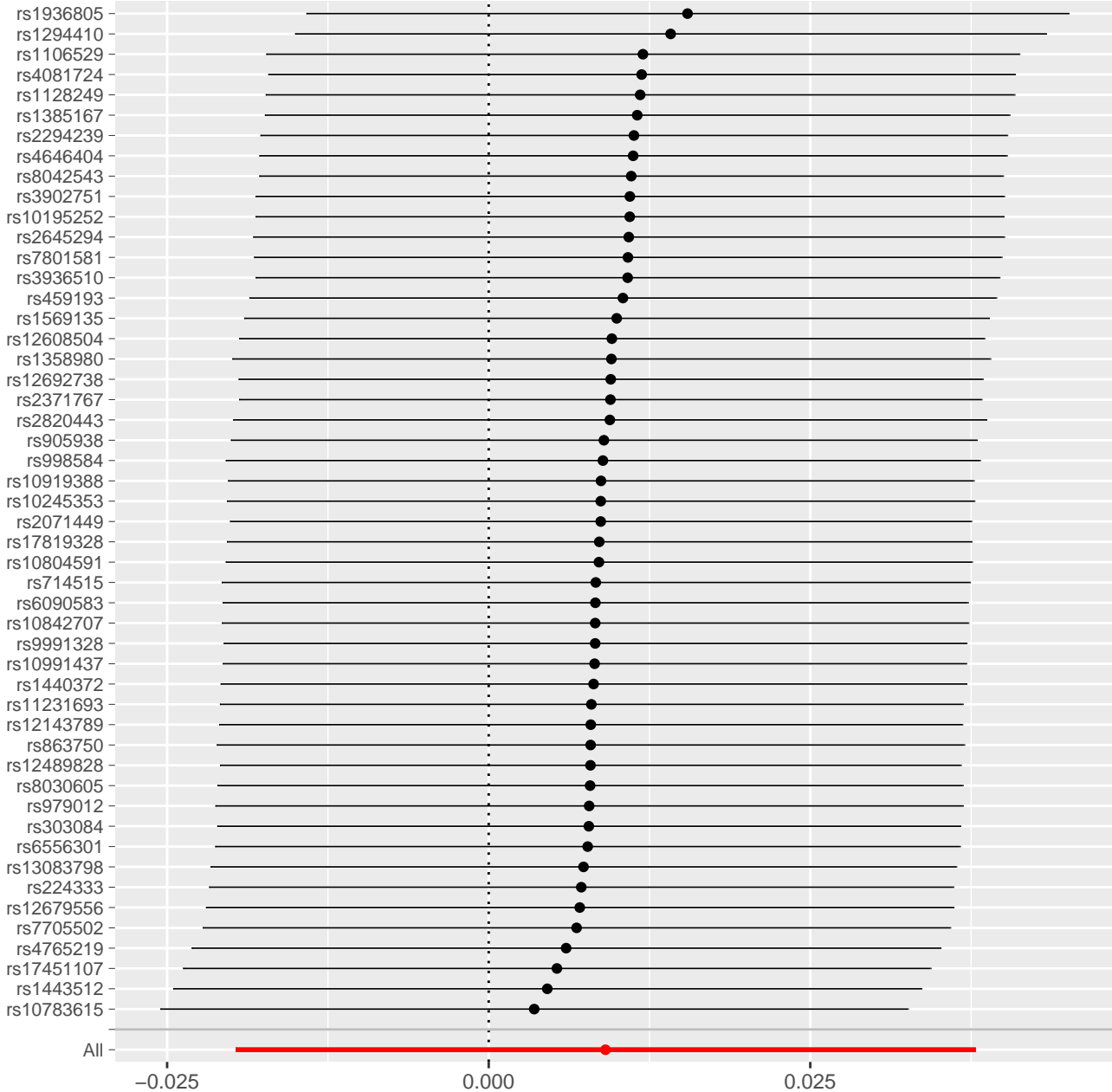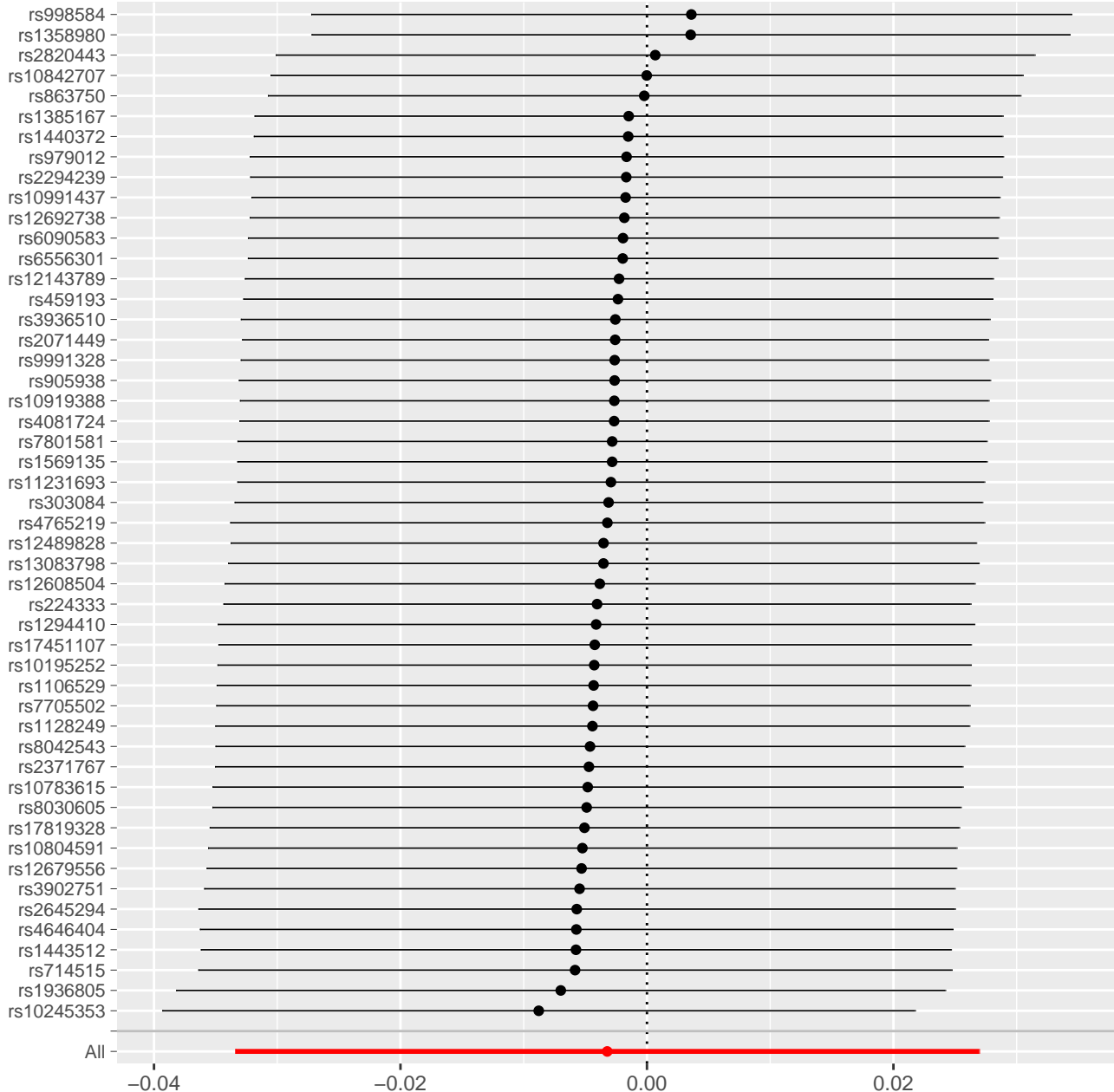'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12510−−2−aminooctanoic acid || id:629'

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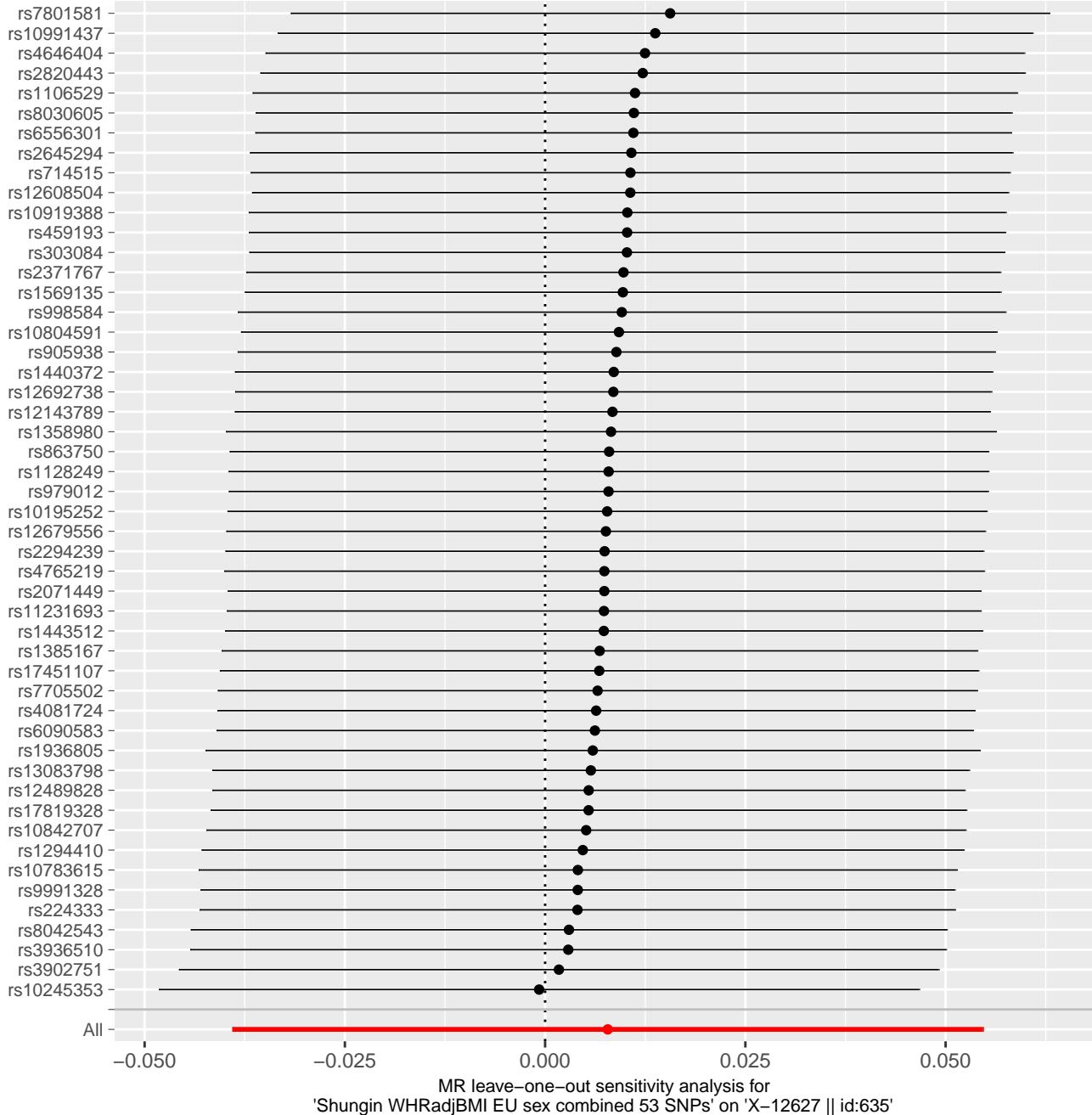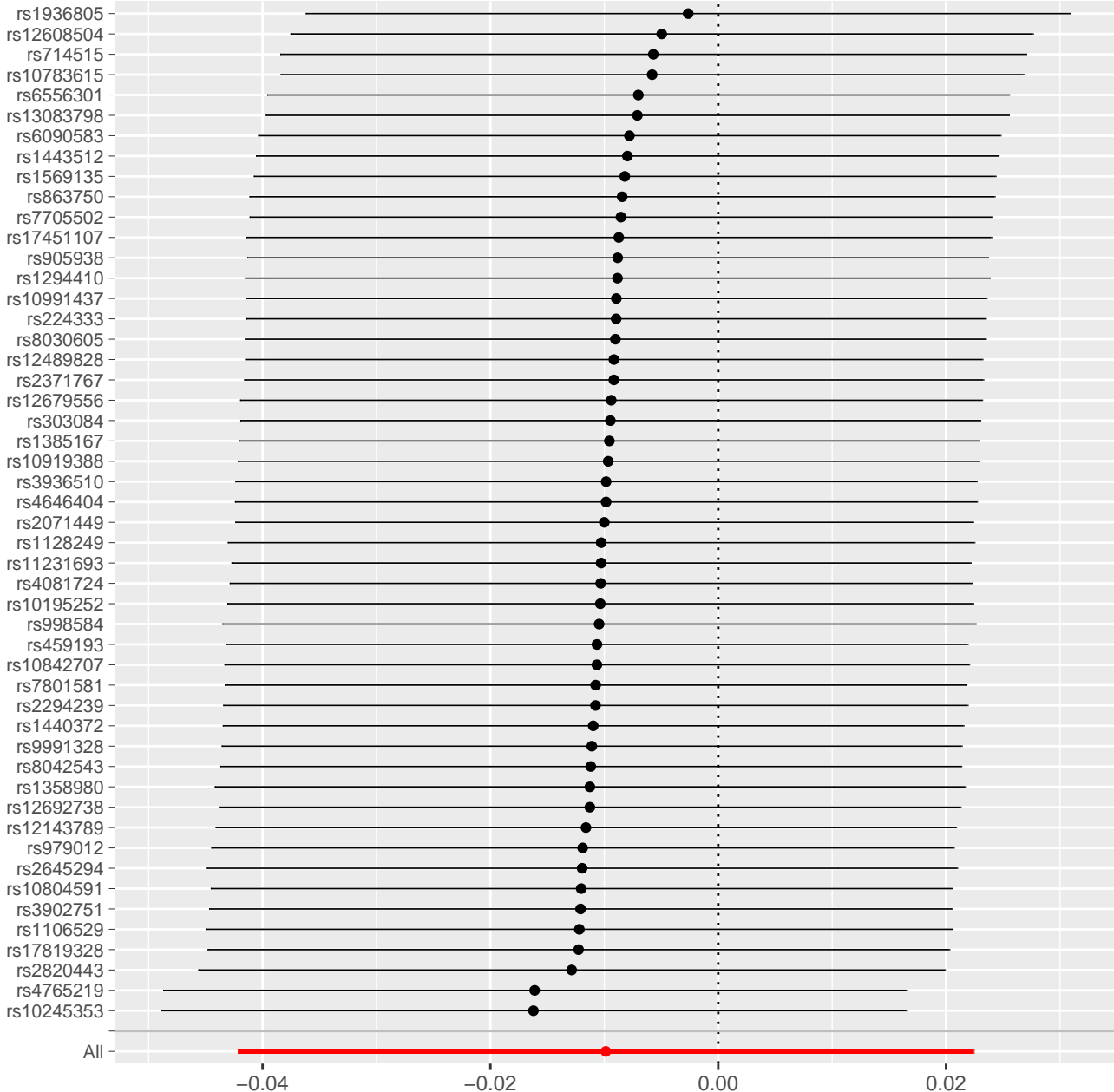
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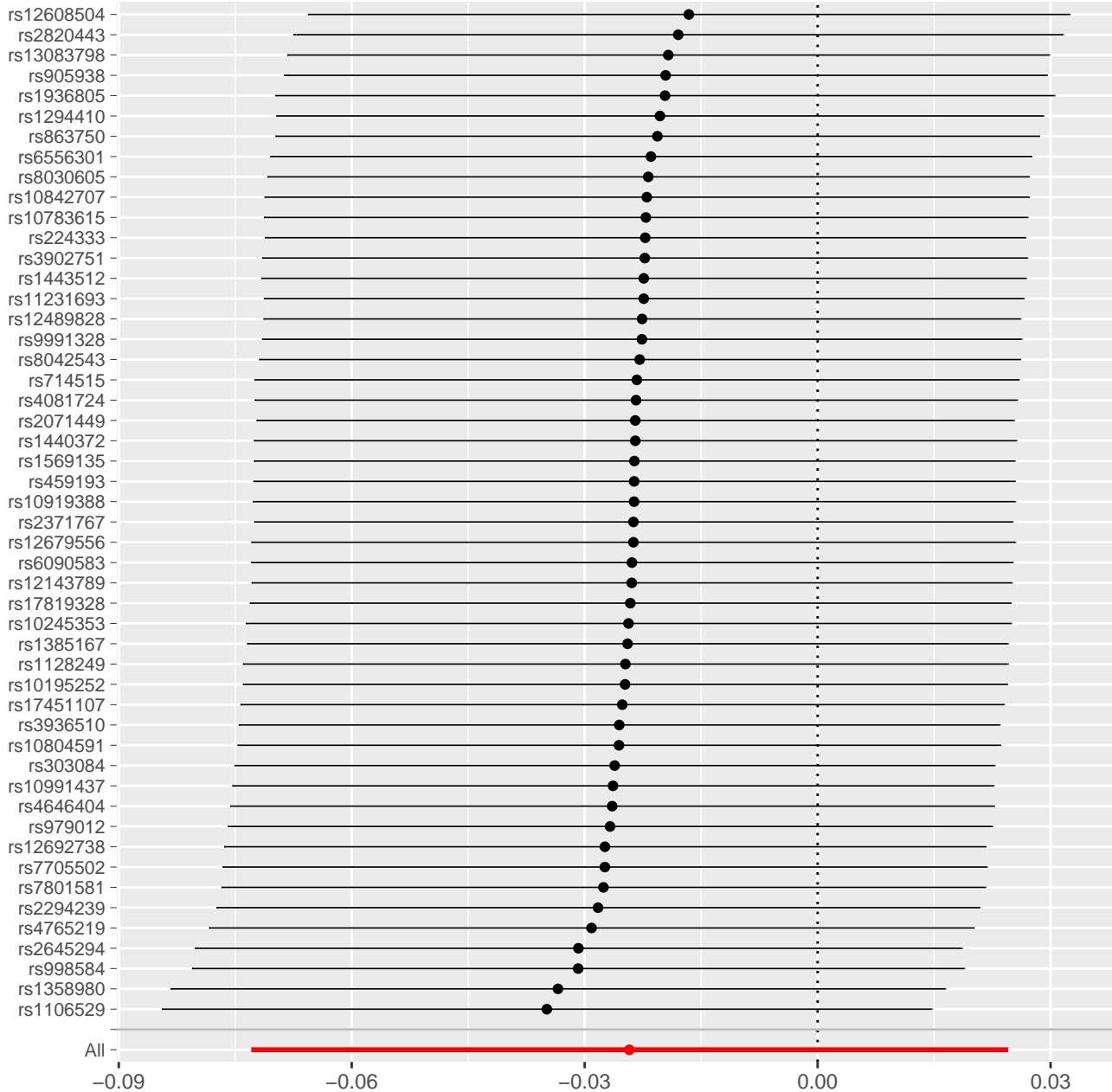'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12544 || id:632'

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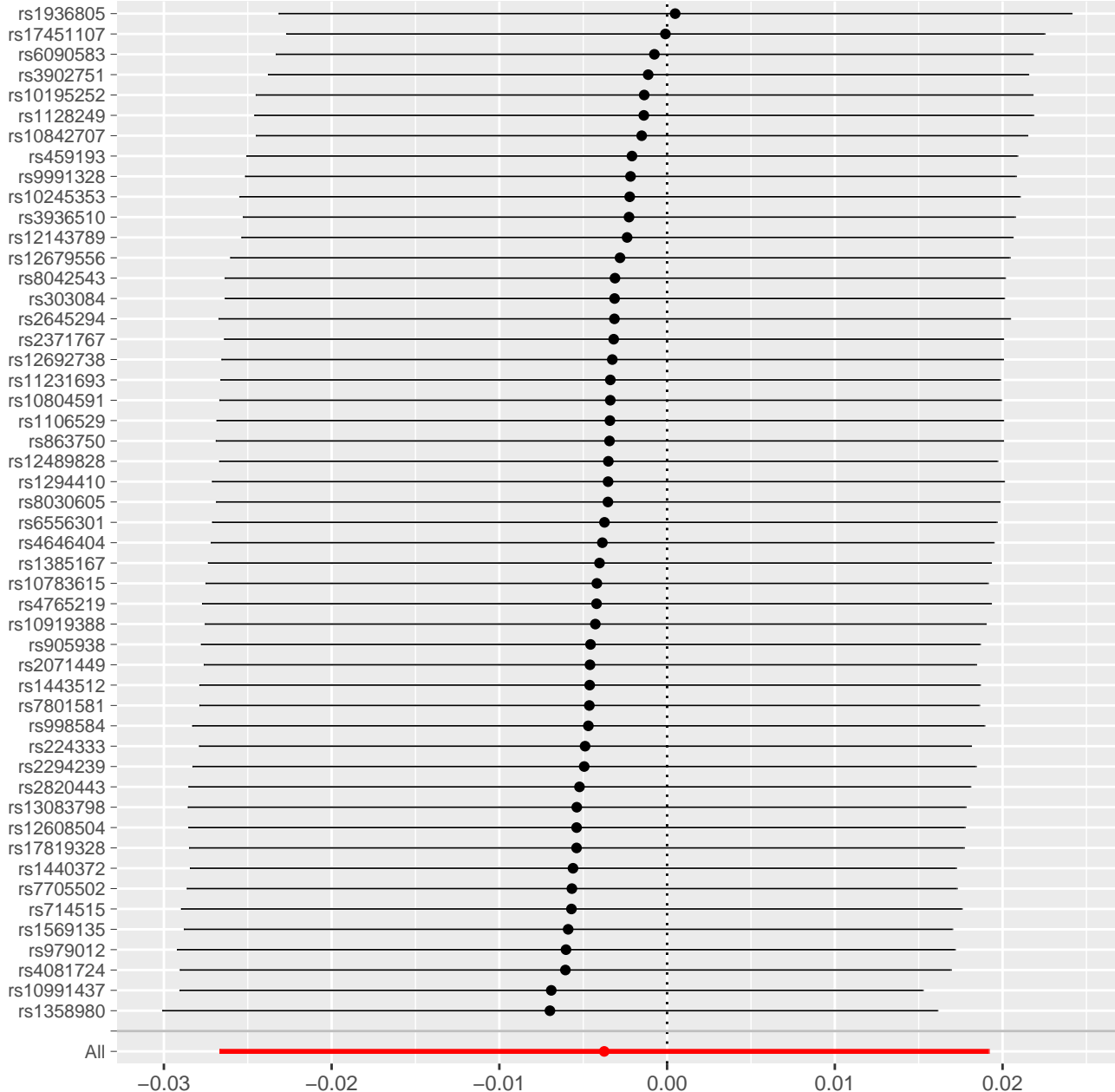'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12556 || id:633'

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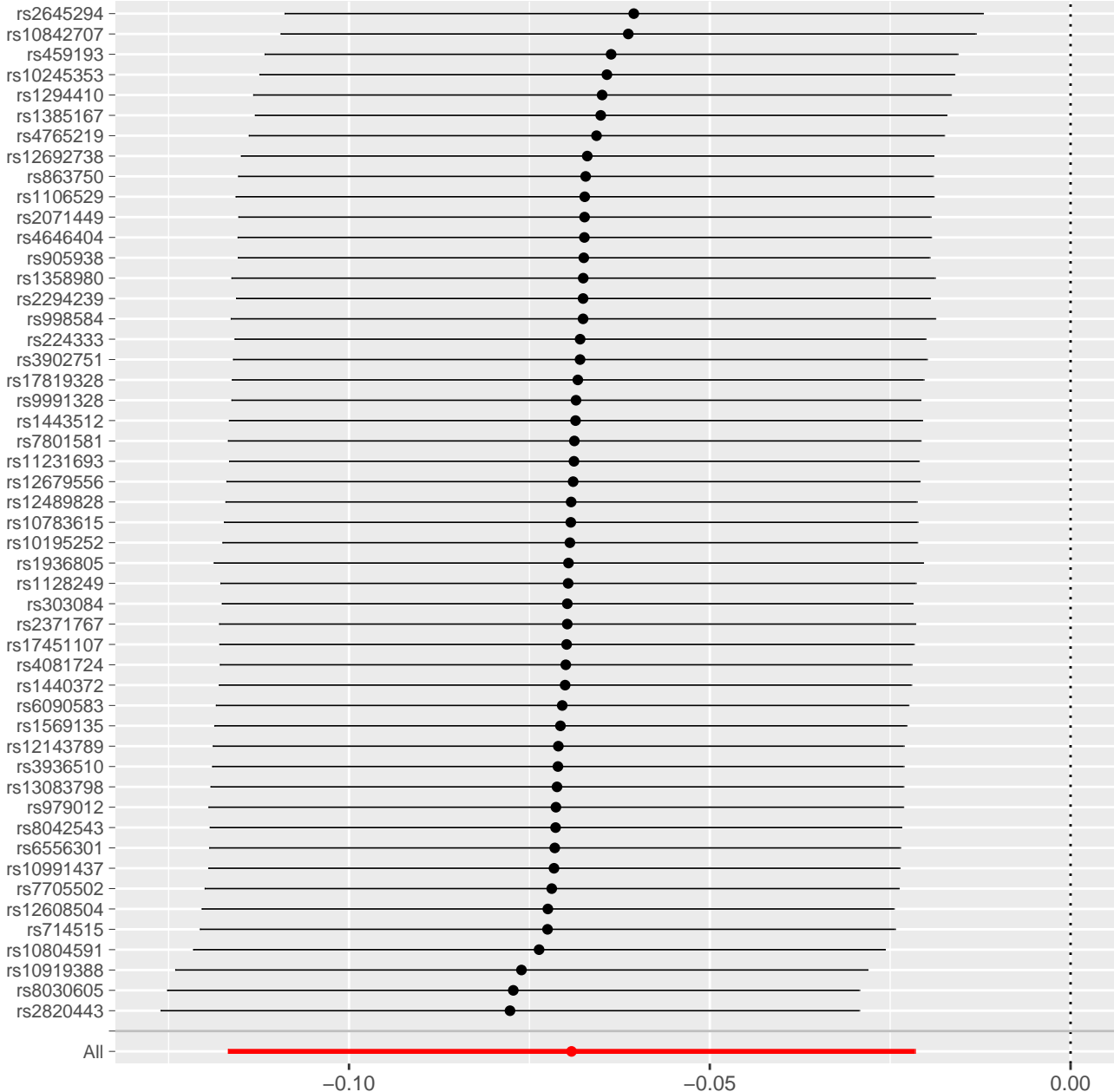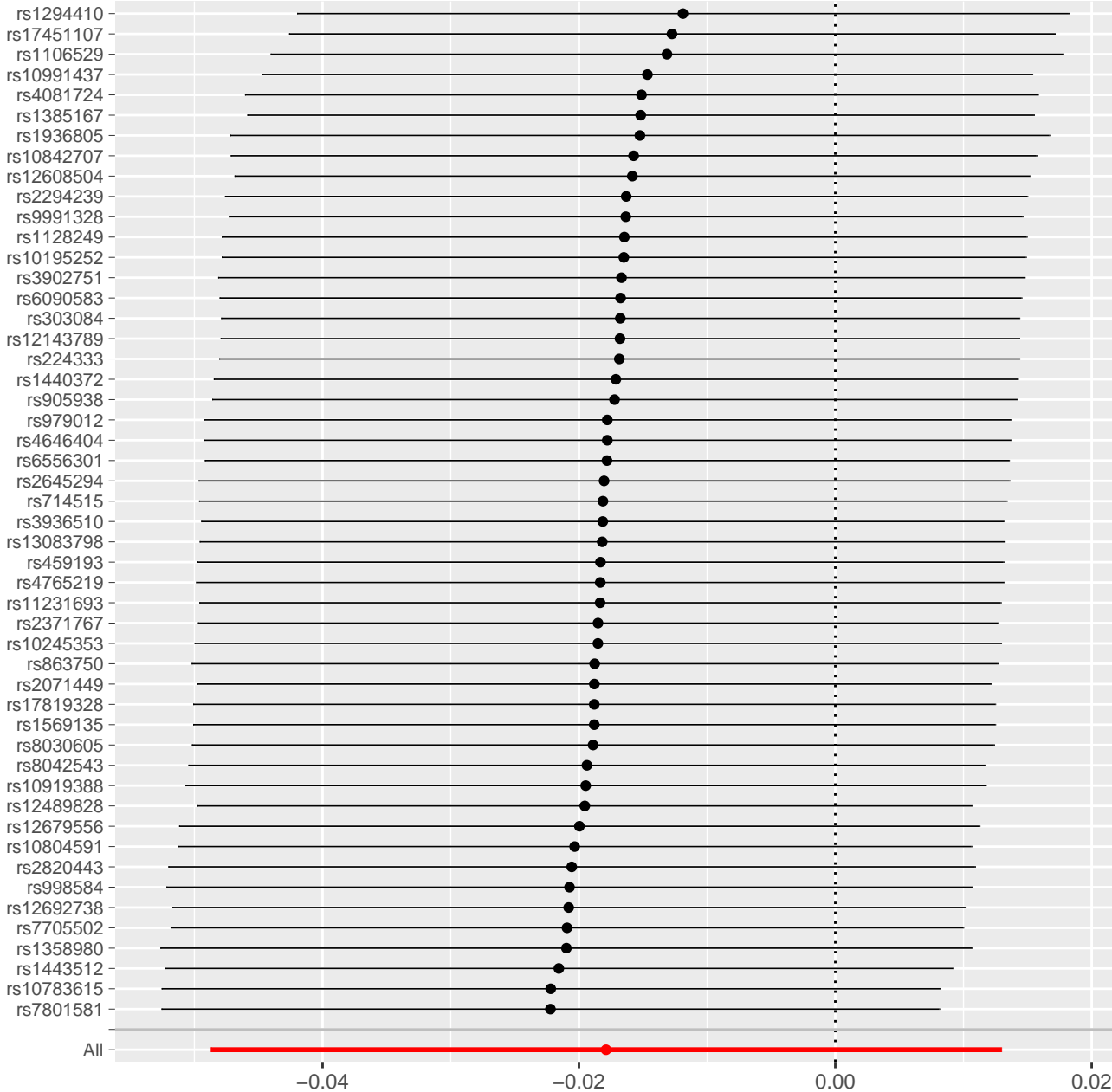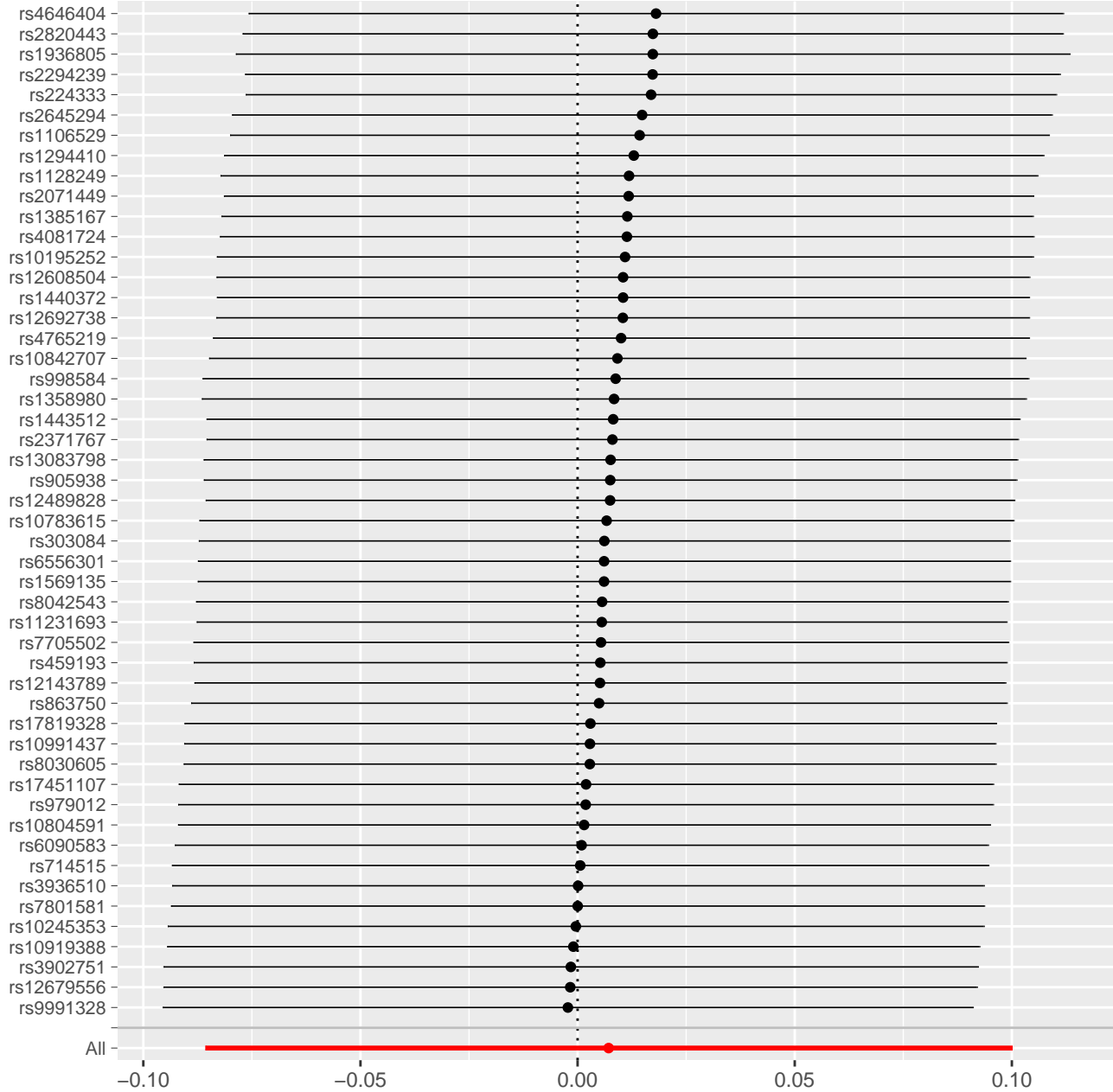'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12644 || id:636'

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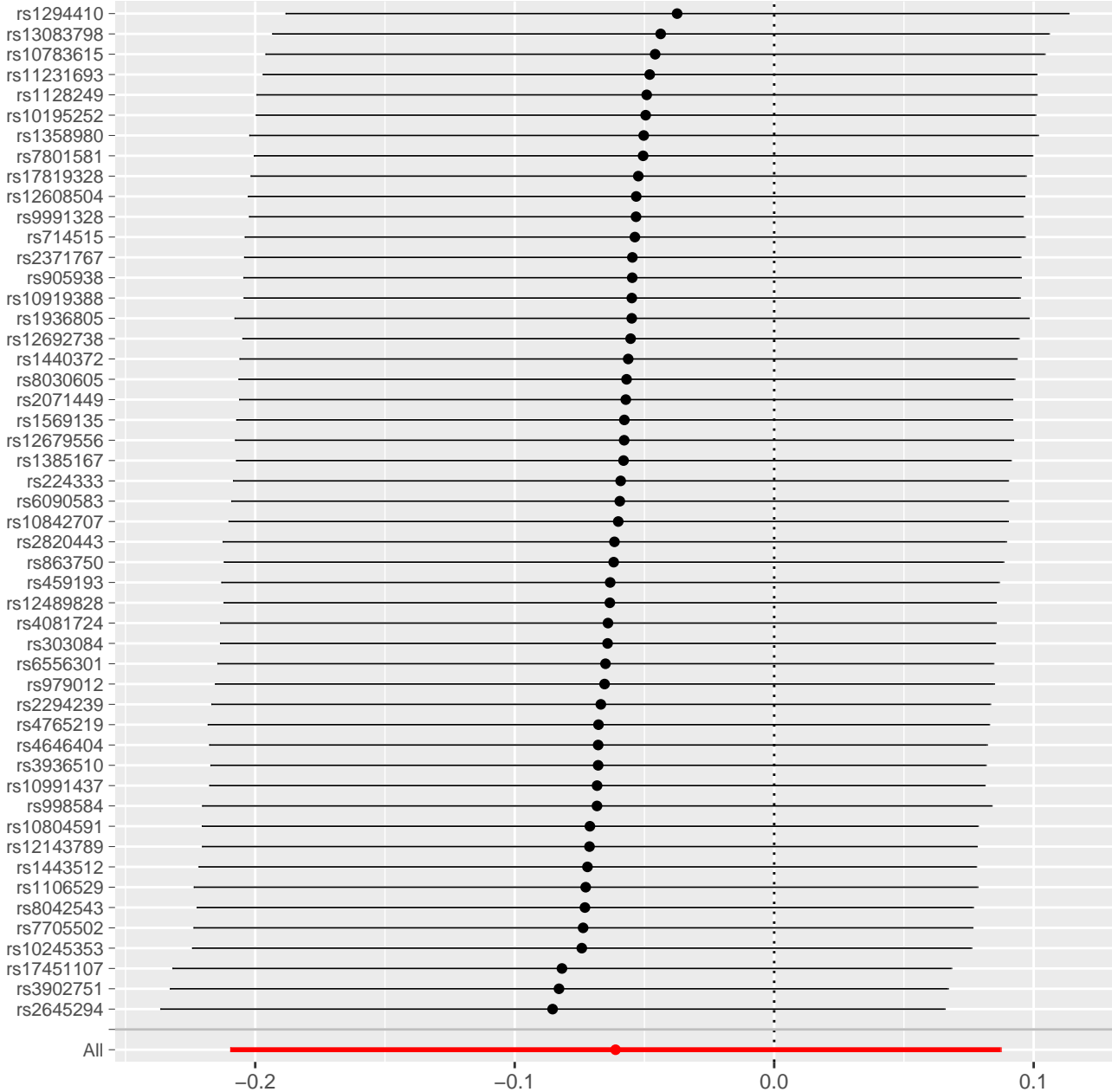'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Asparagine || id:638'
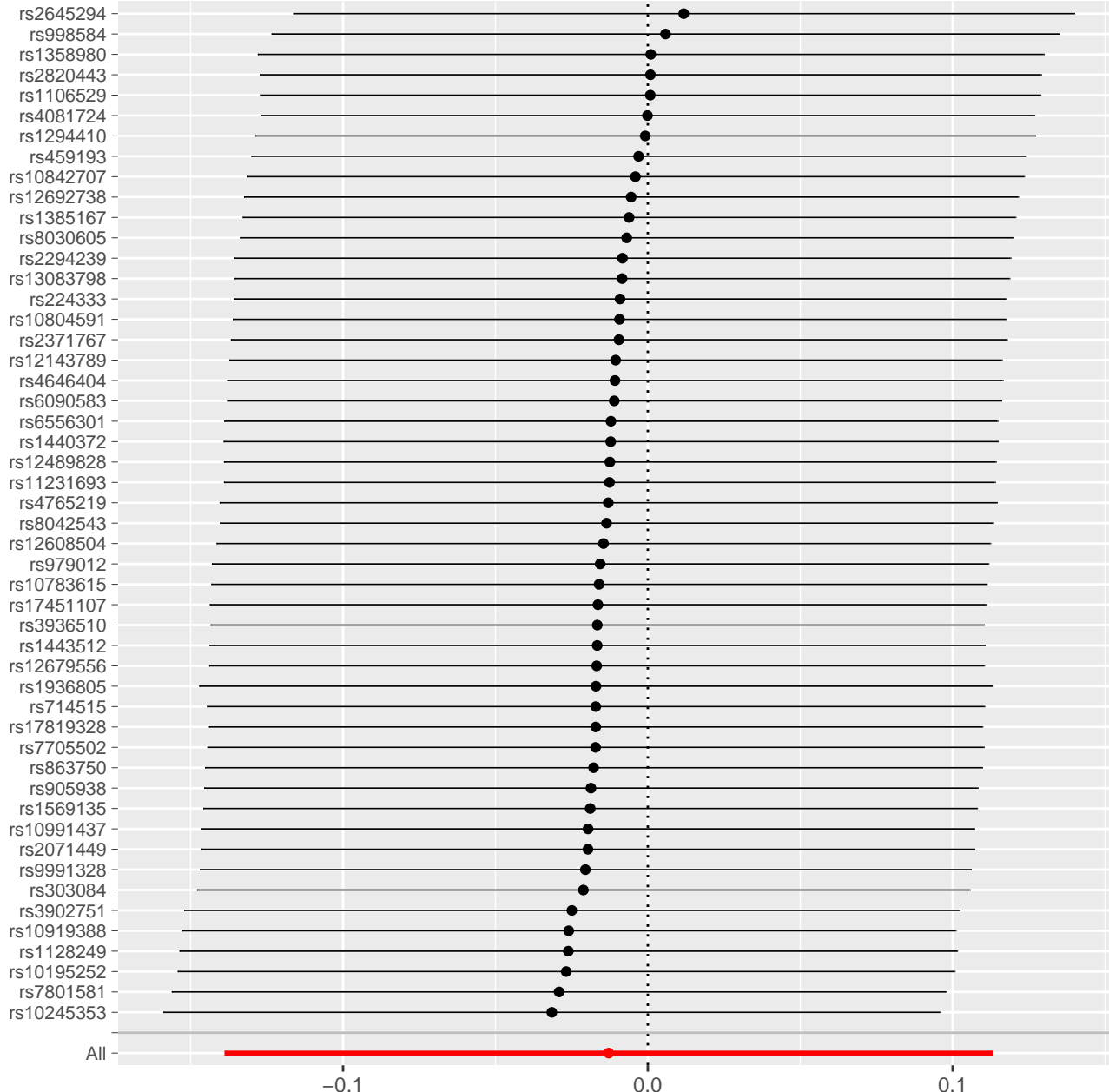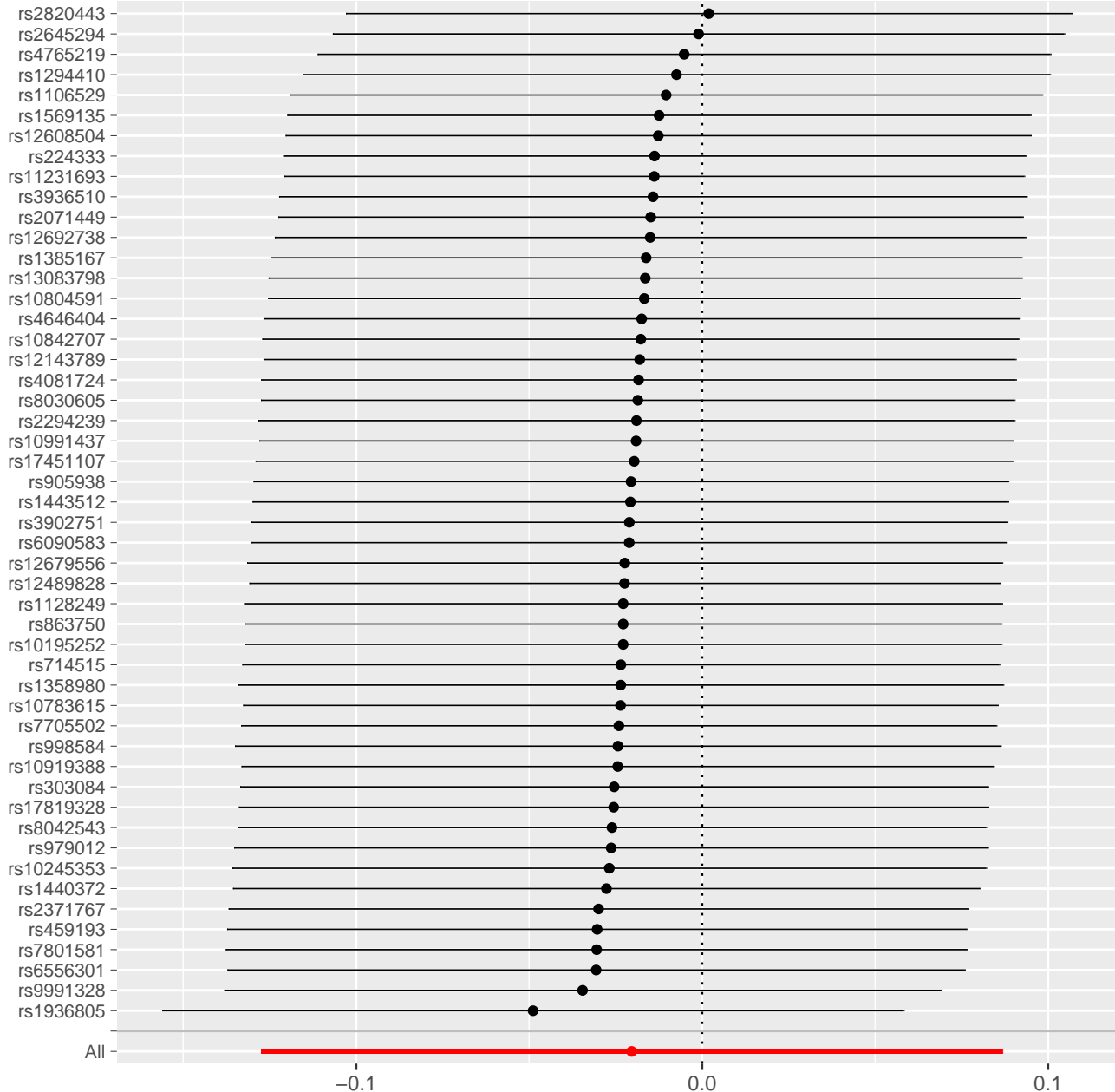
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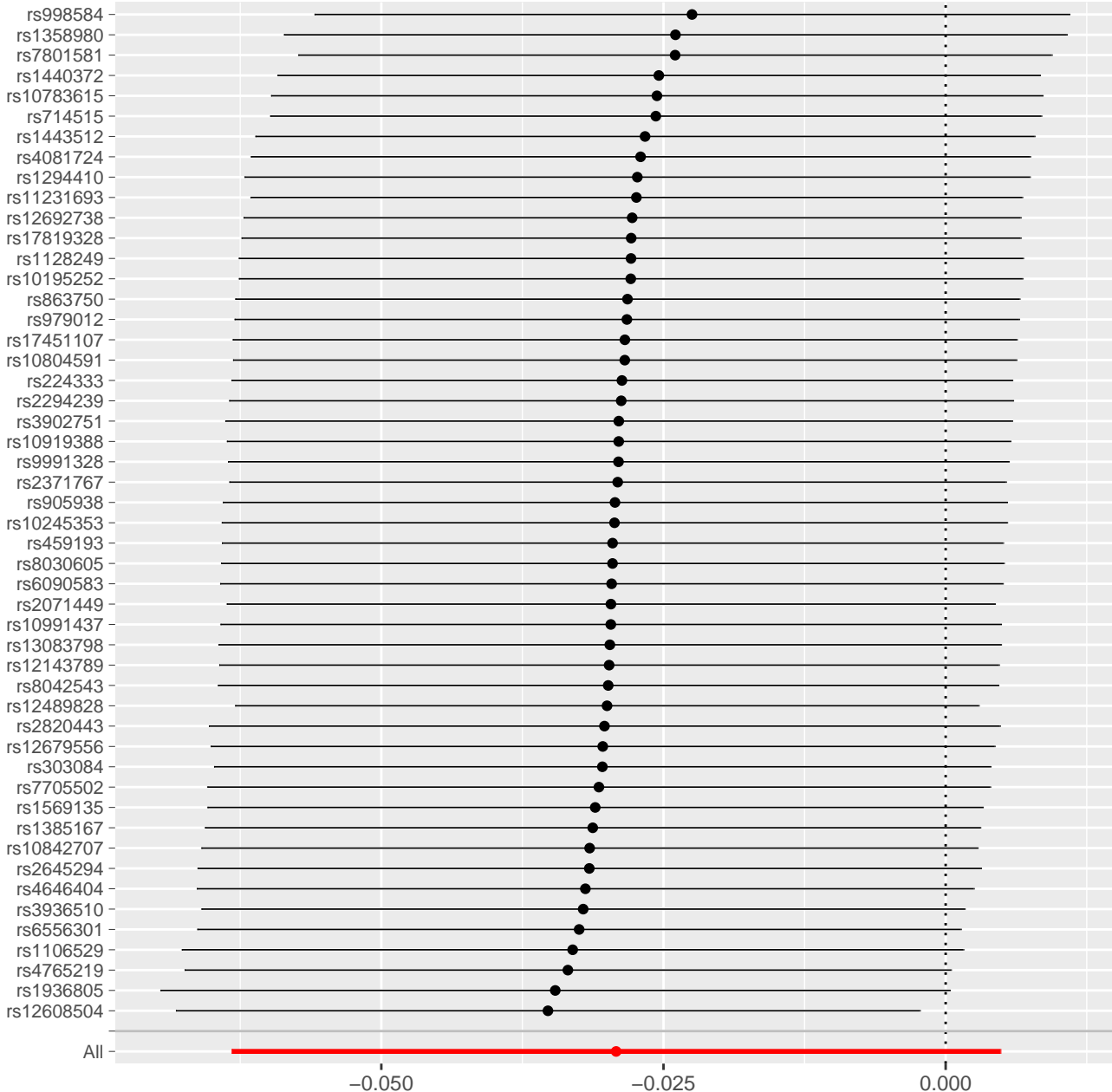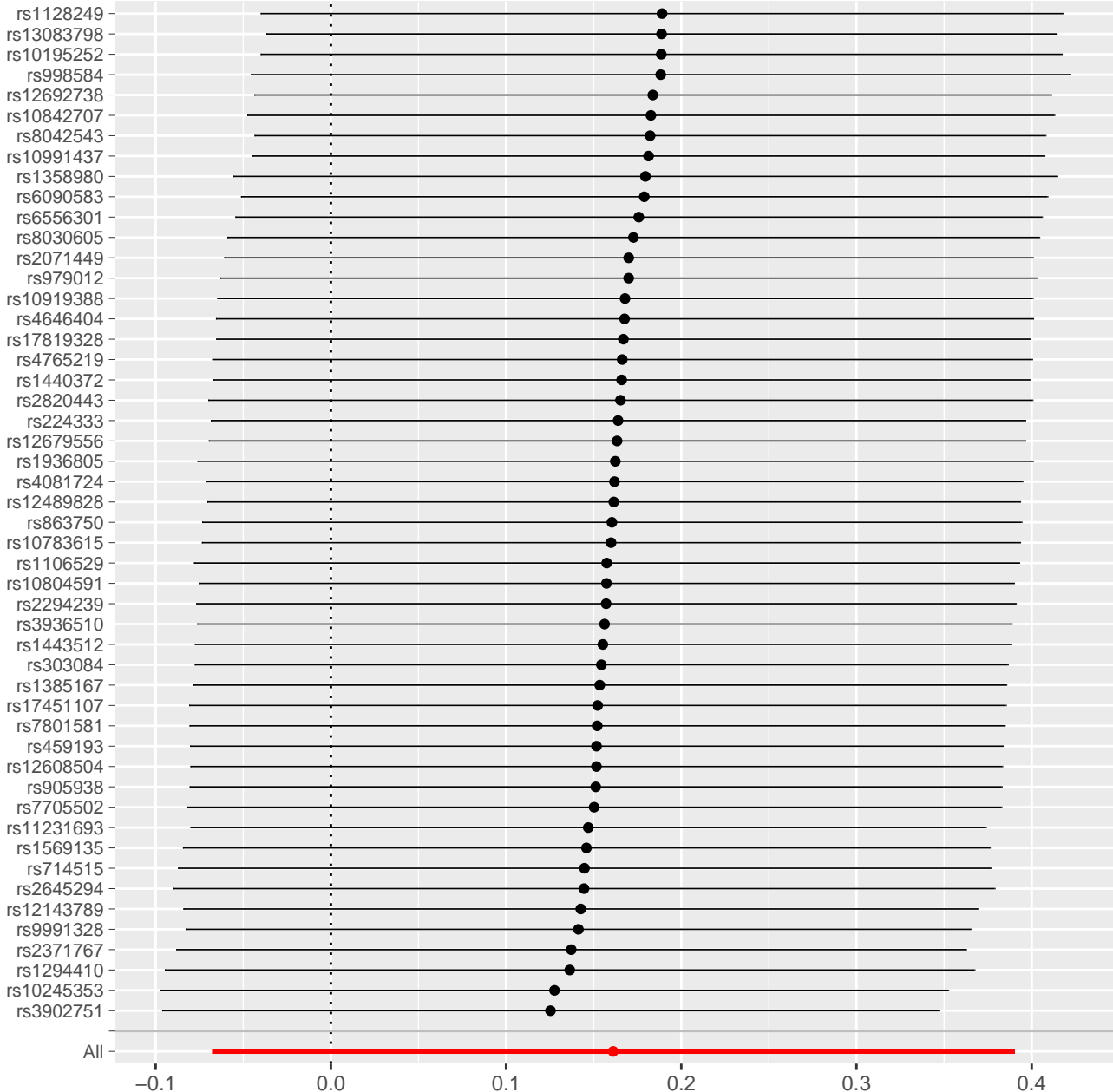'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12712 || id:642'

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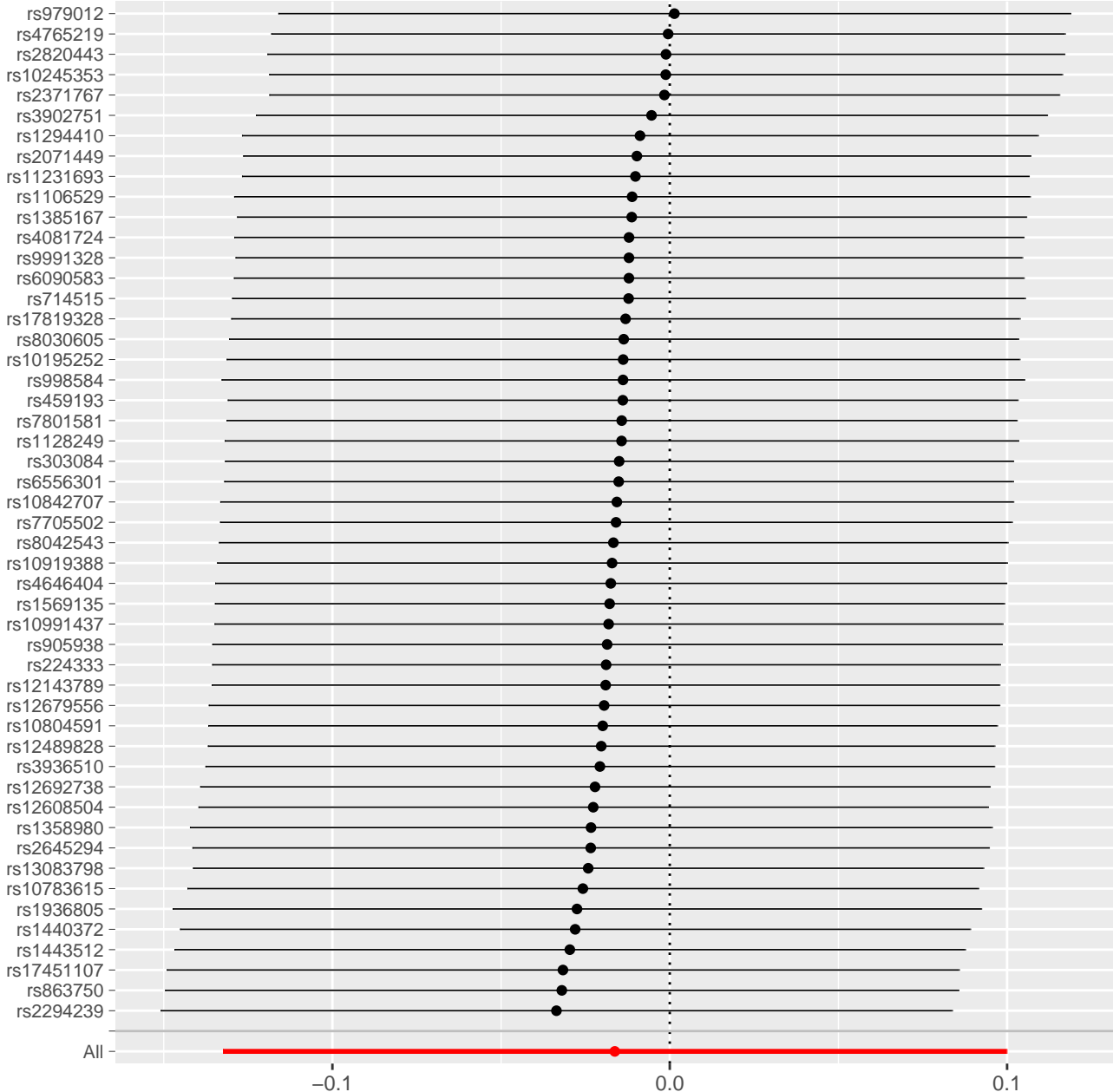
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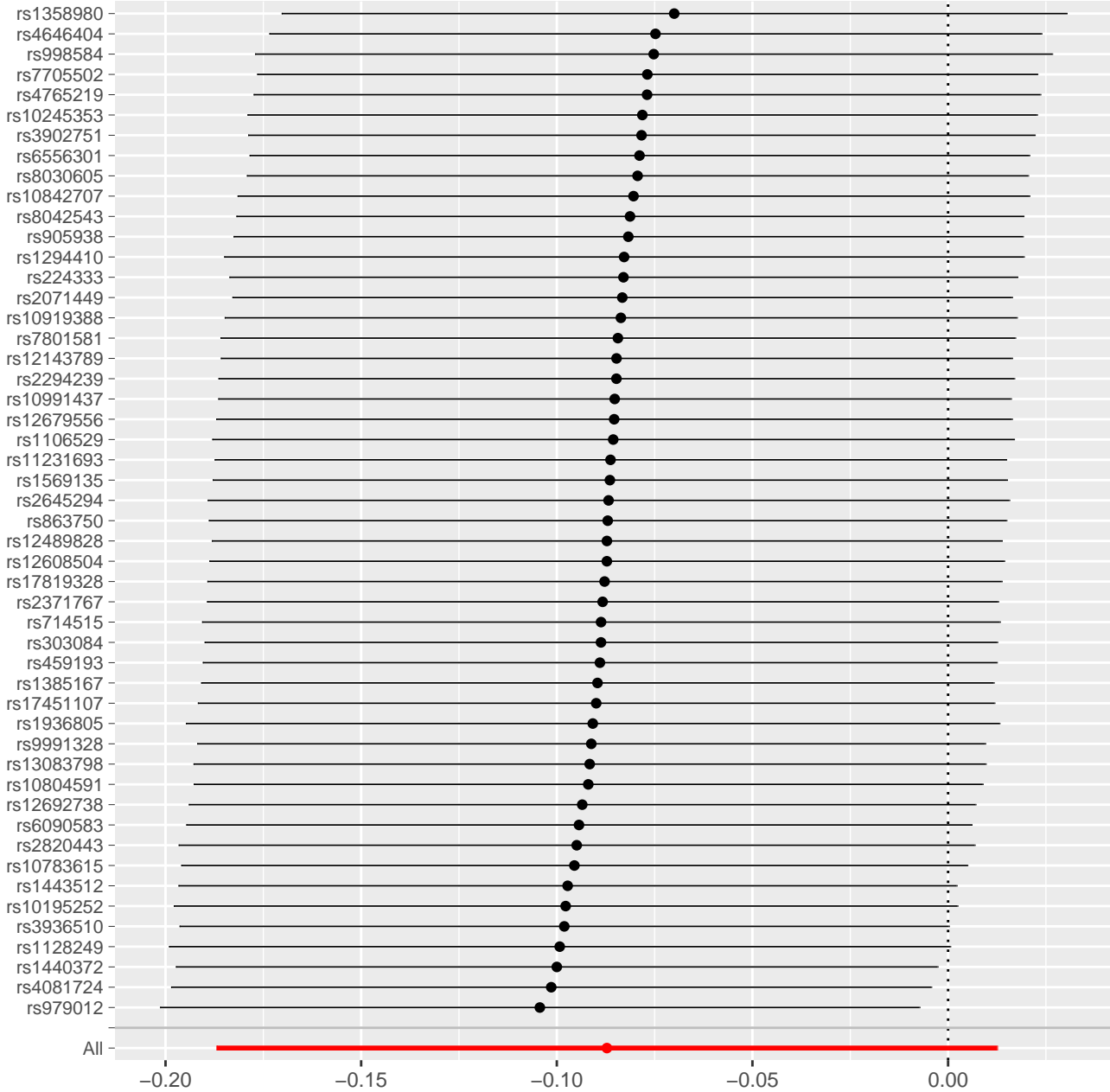'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12719 || id:644'

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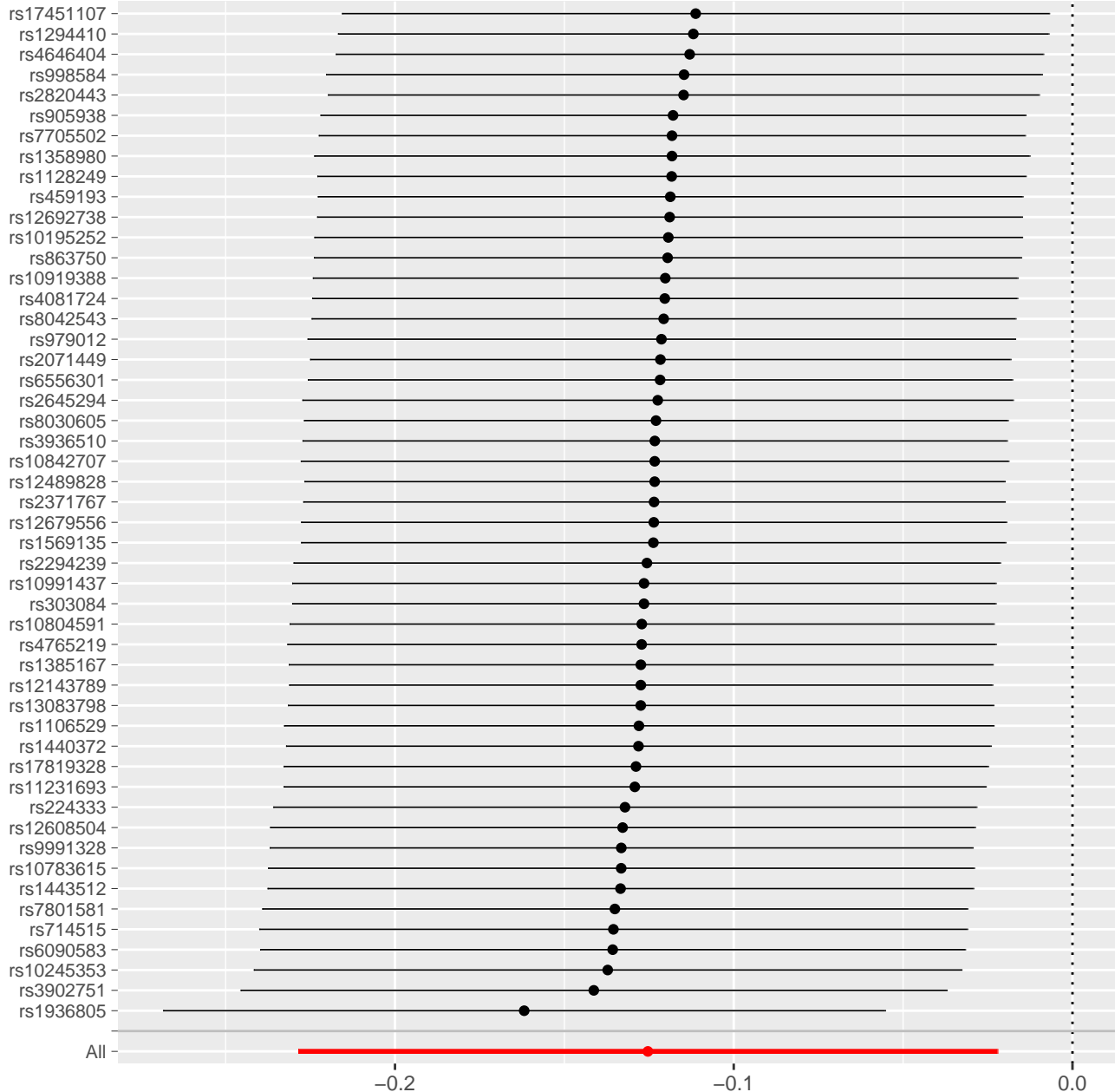
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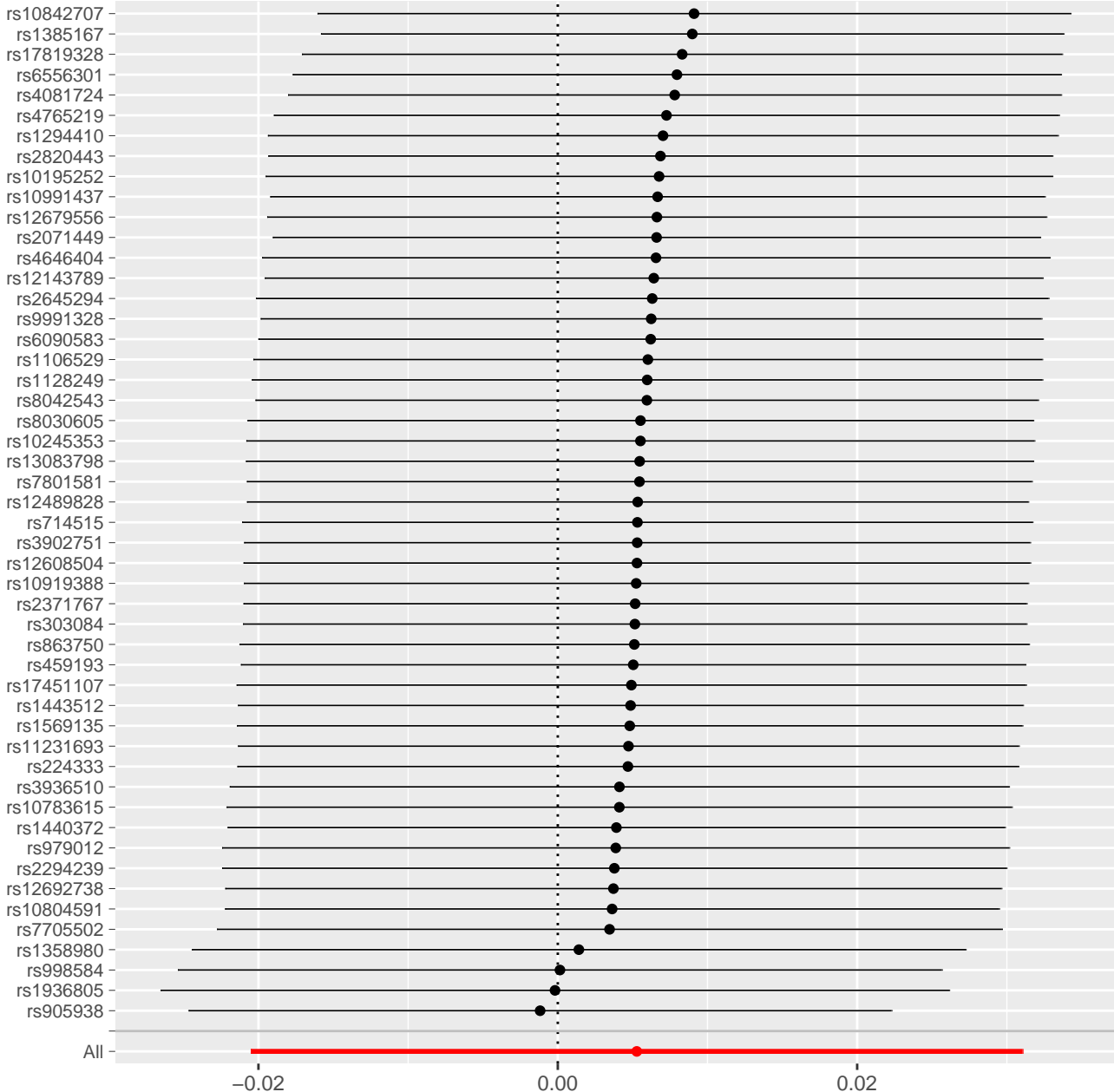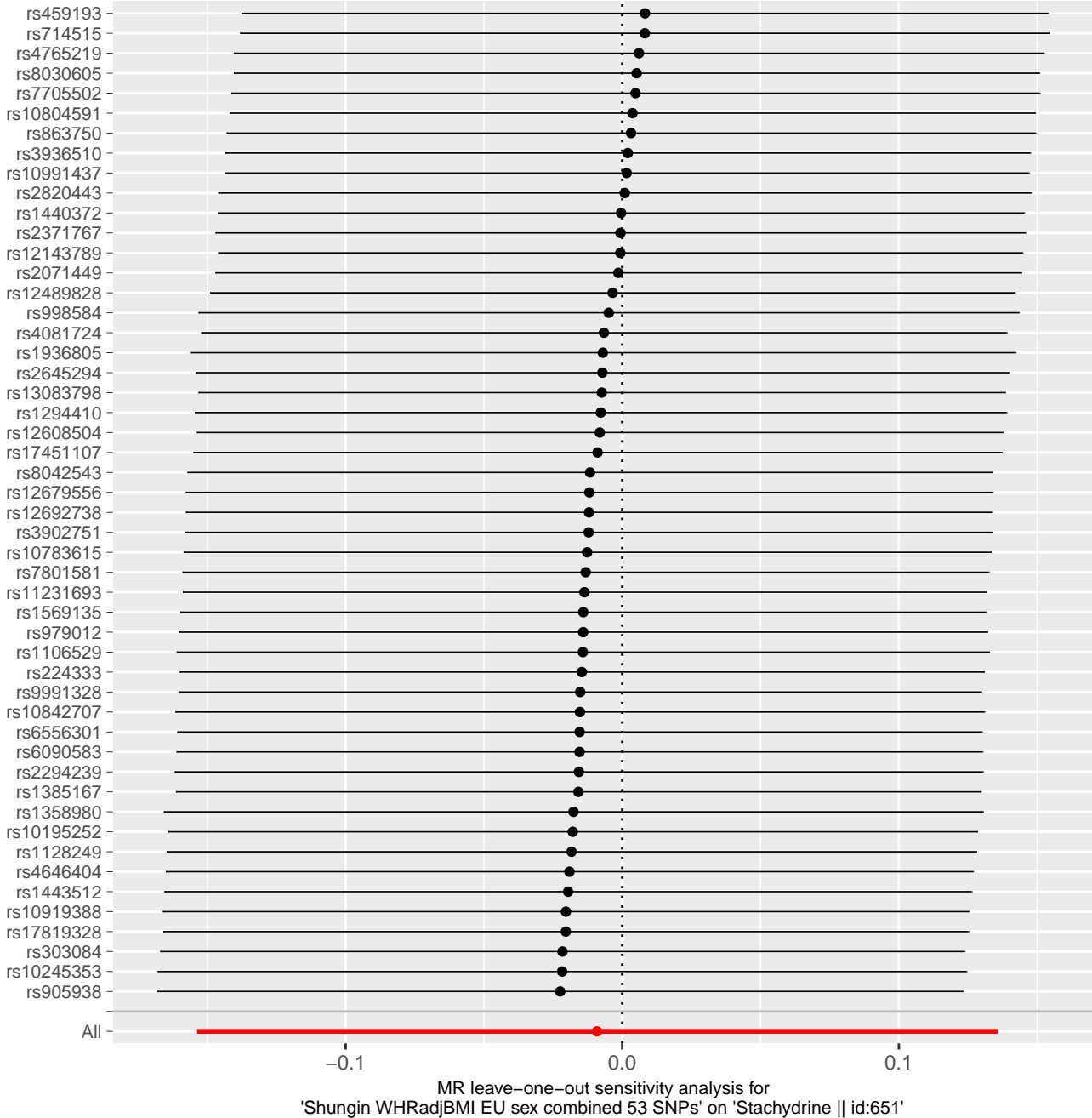'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12728 || id:646'

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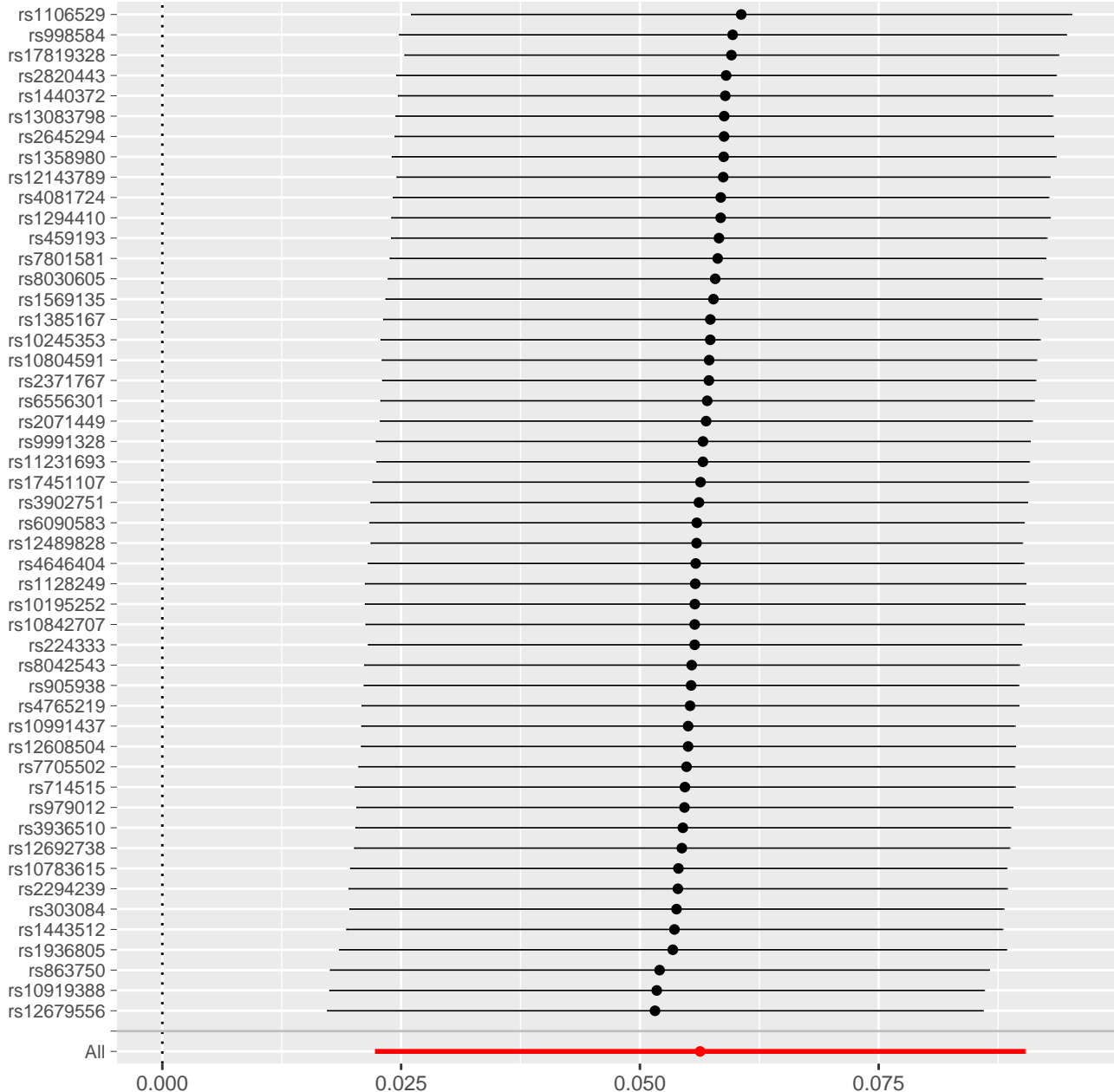'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12729 || id:647'

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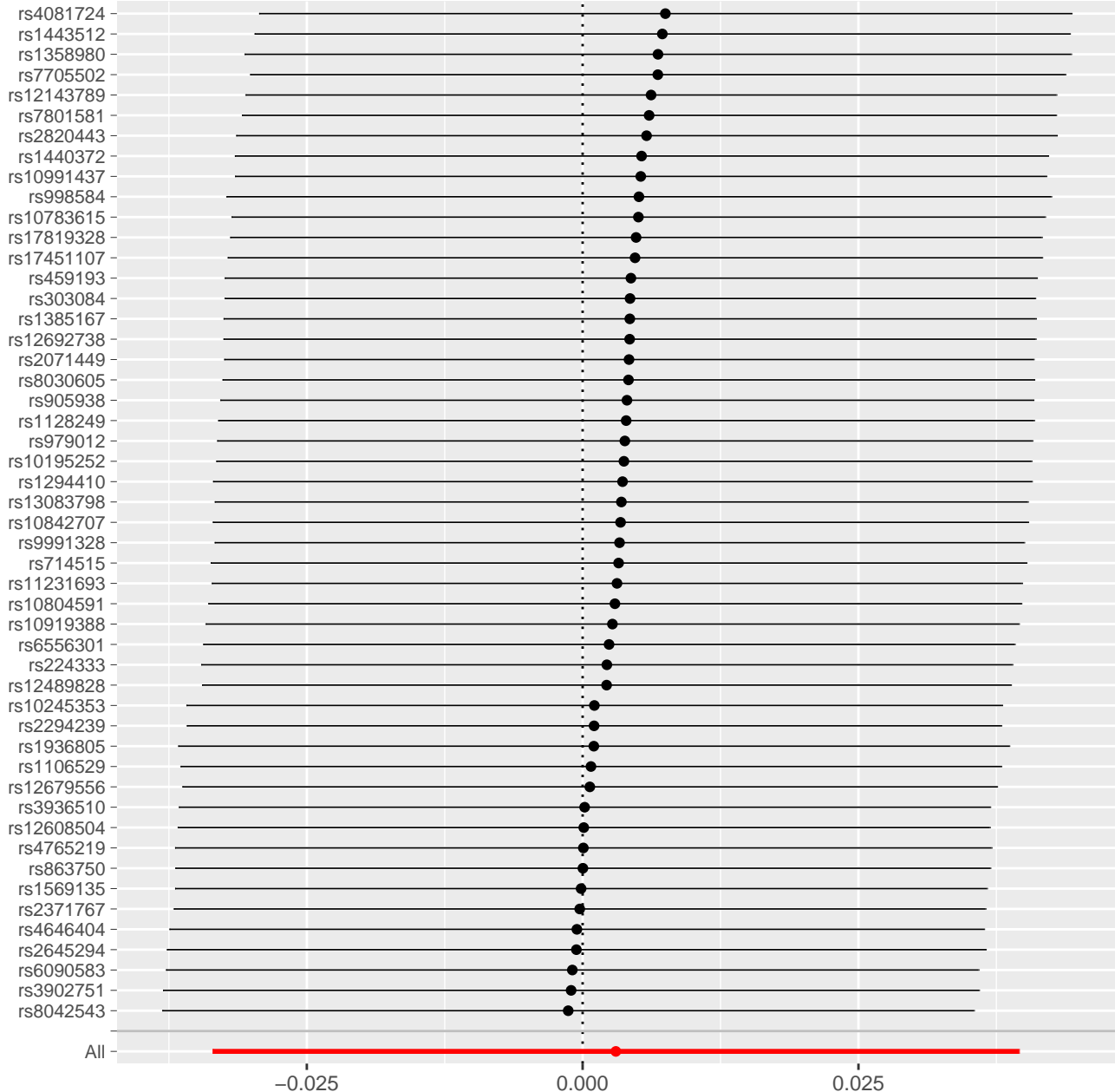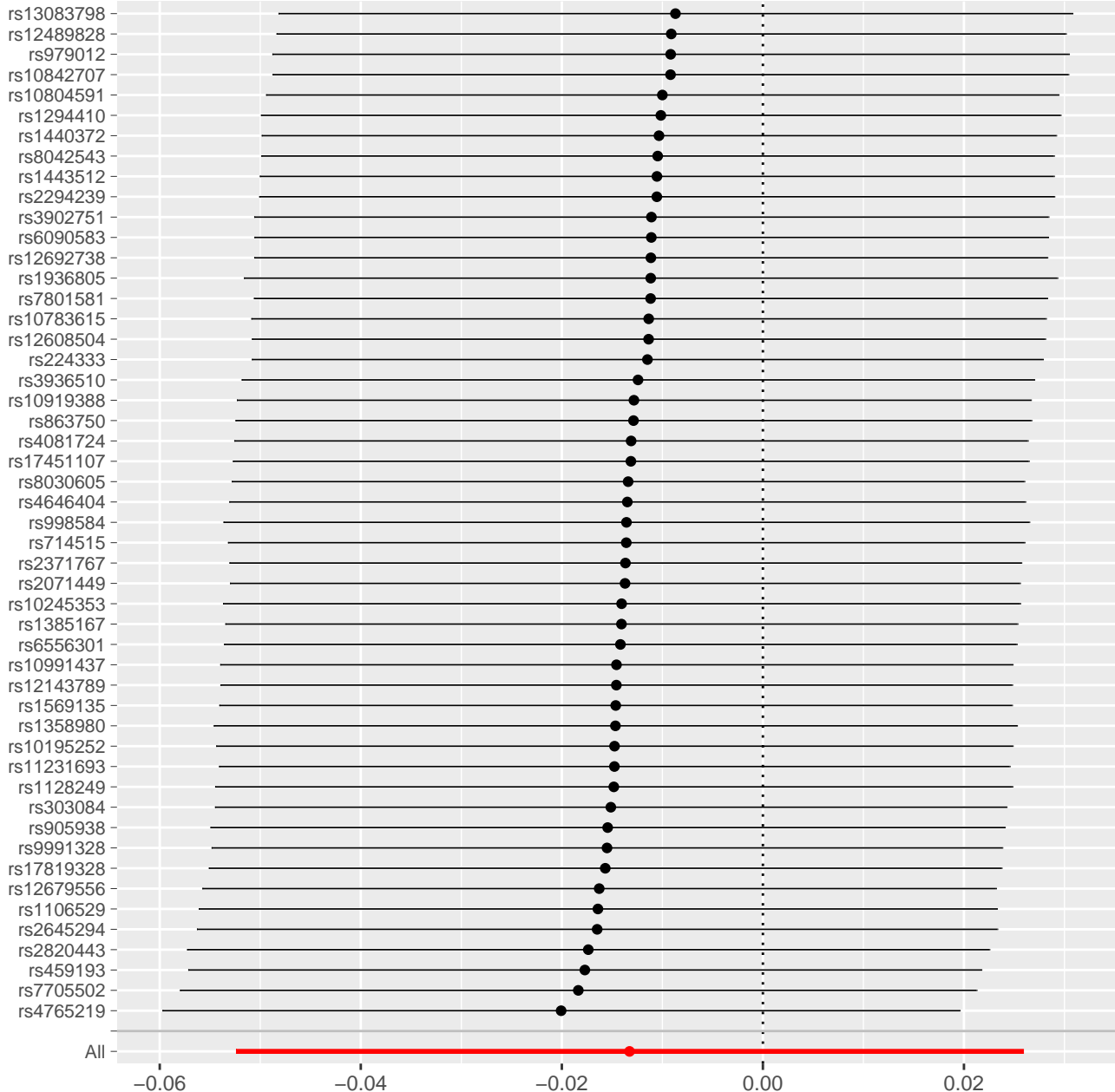
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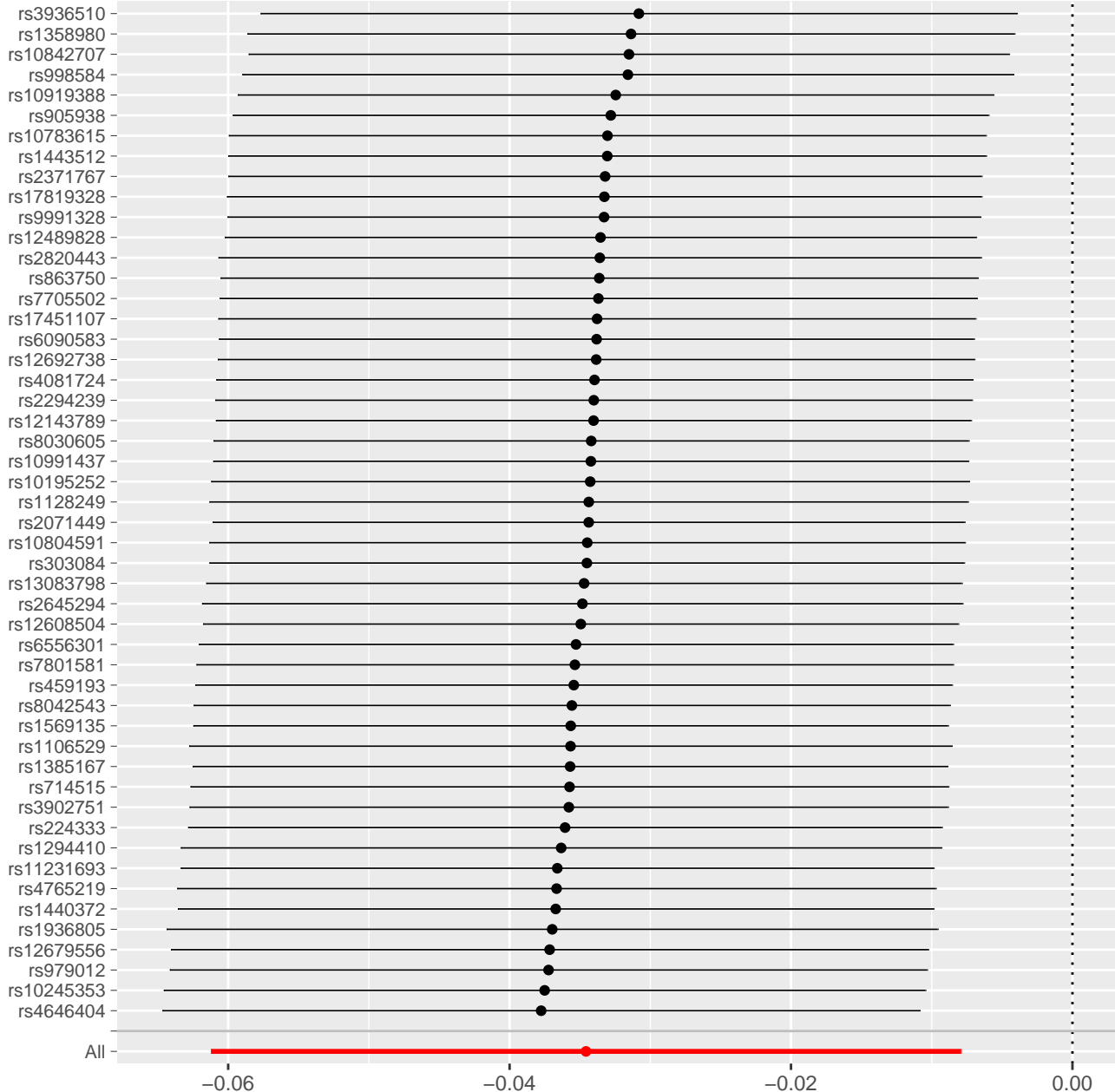'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Stachydrine || id:651'

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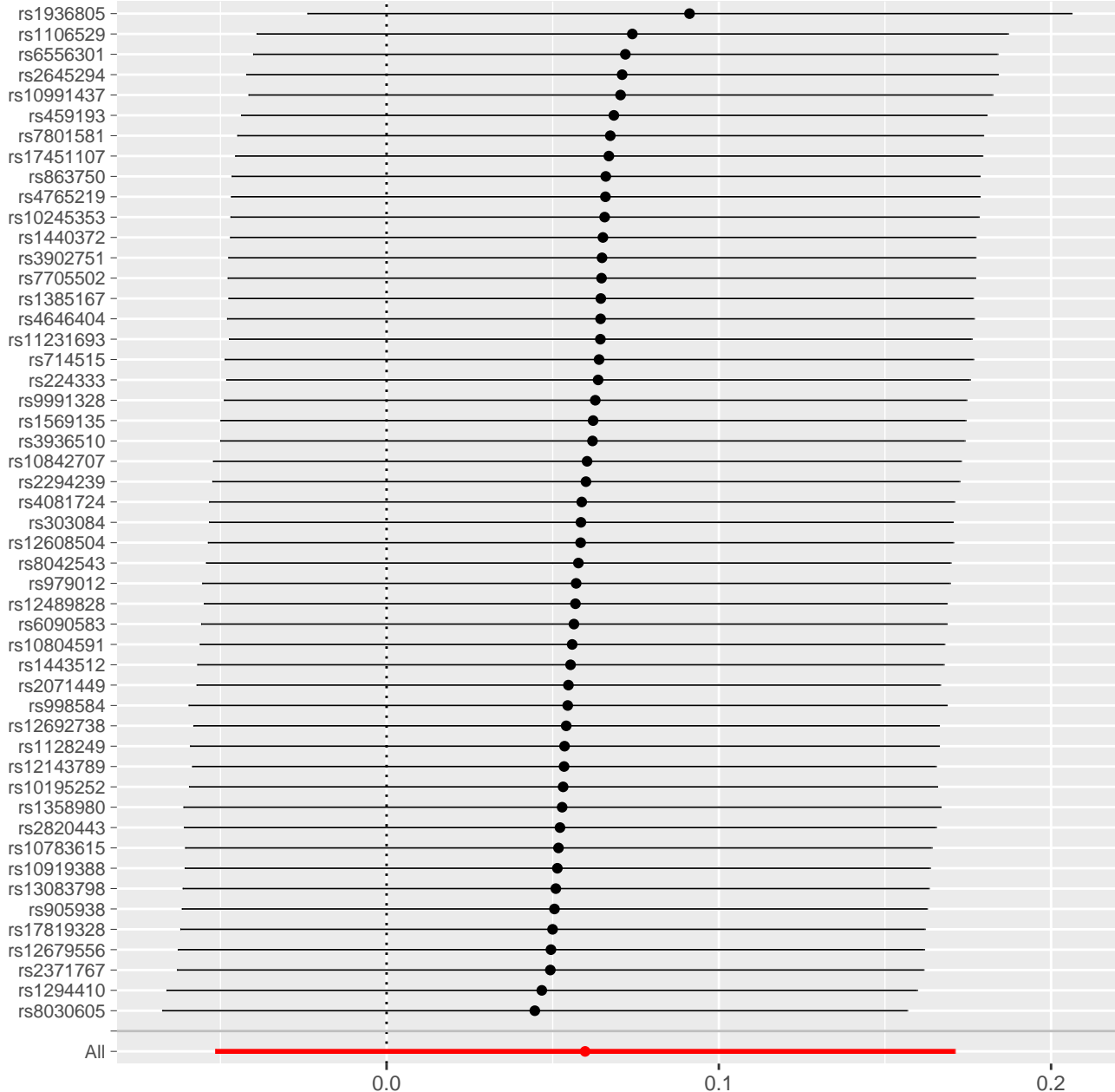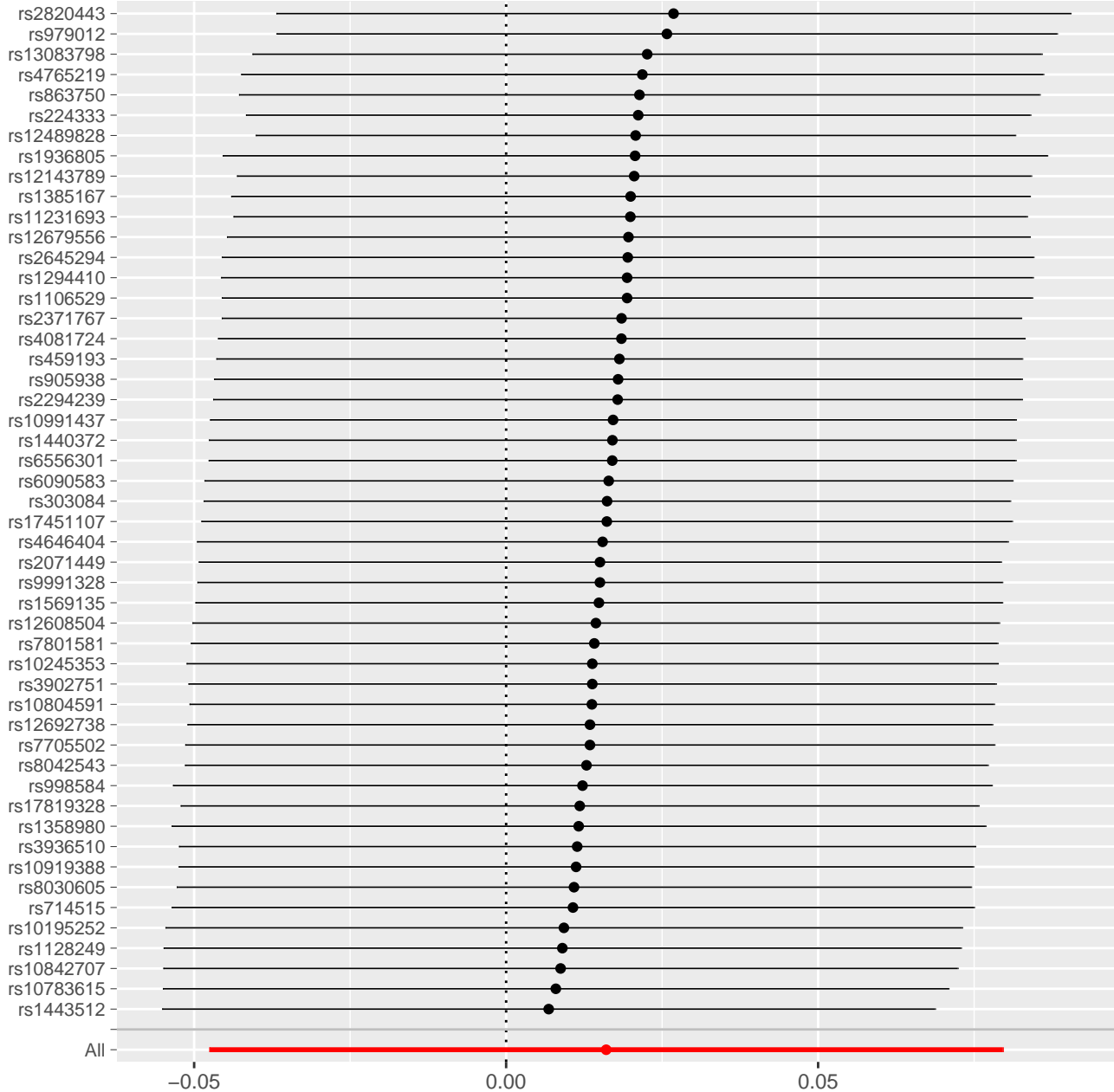
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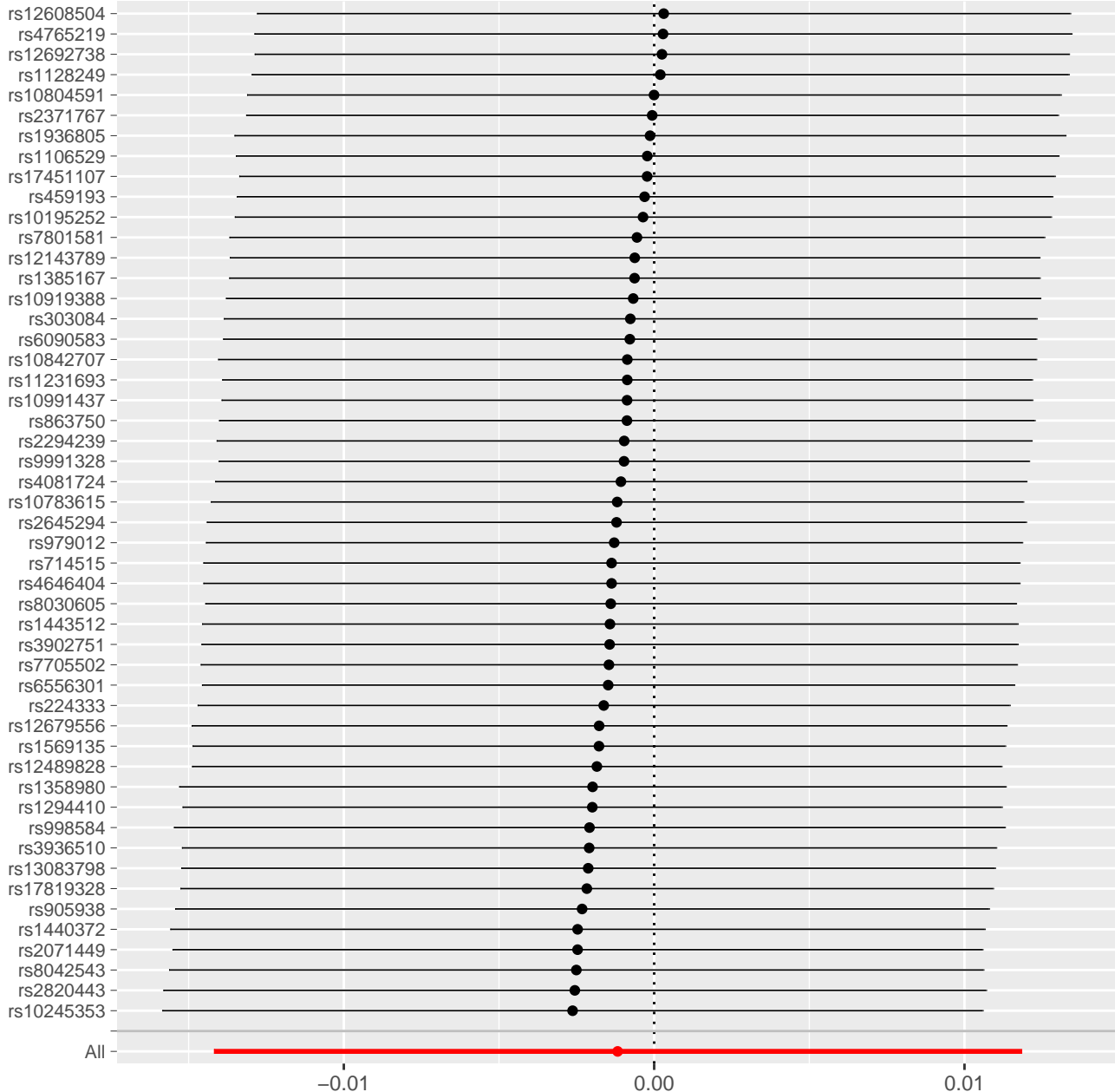
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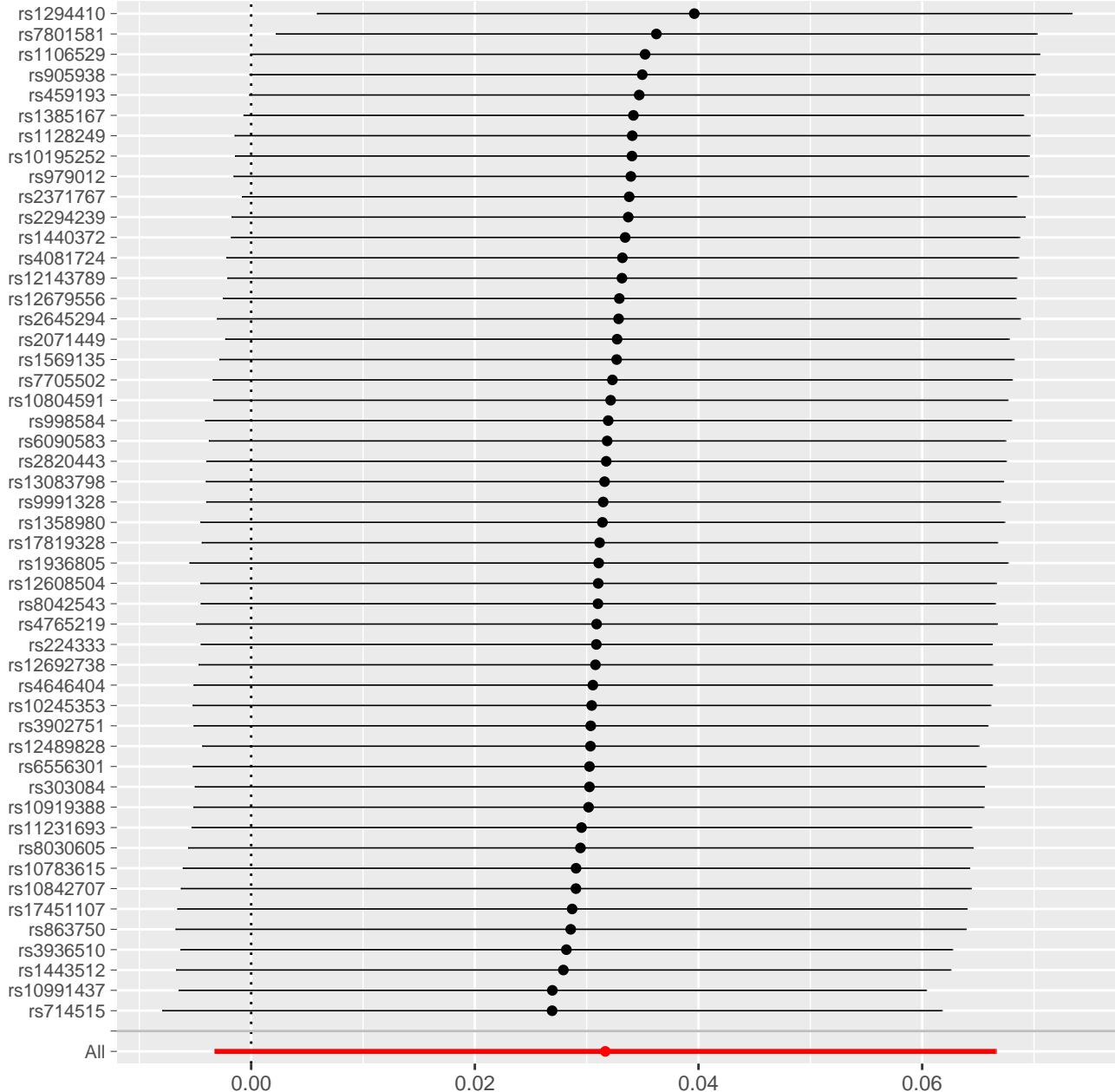'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−linoleoylglycerophosphocholine || id:655'

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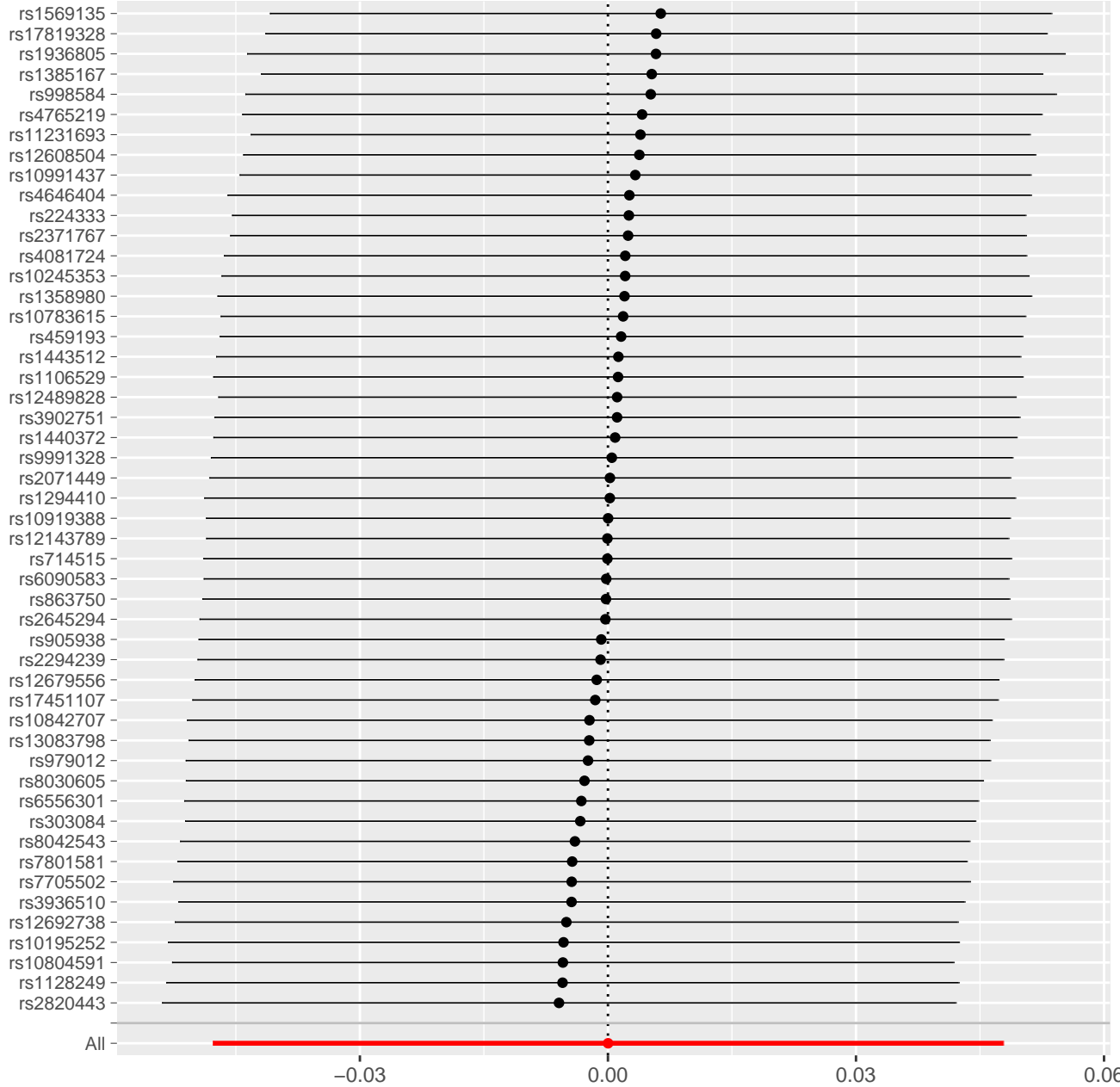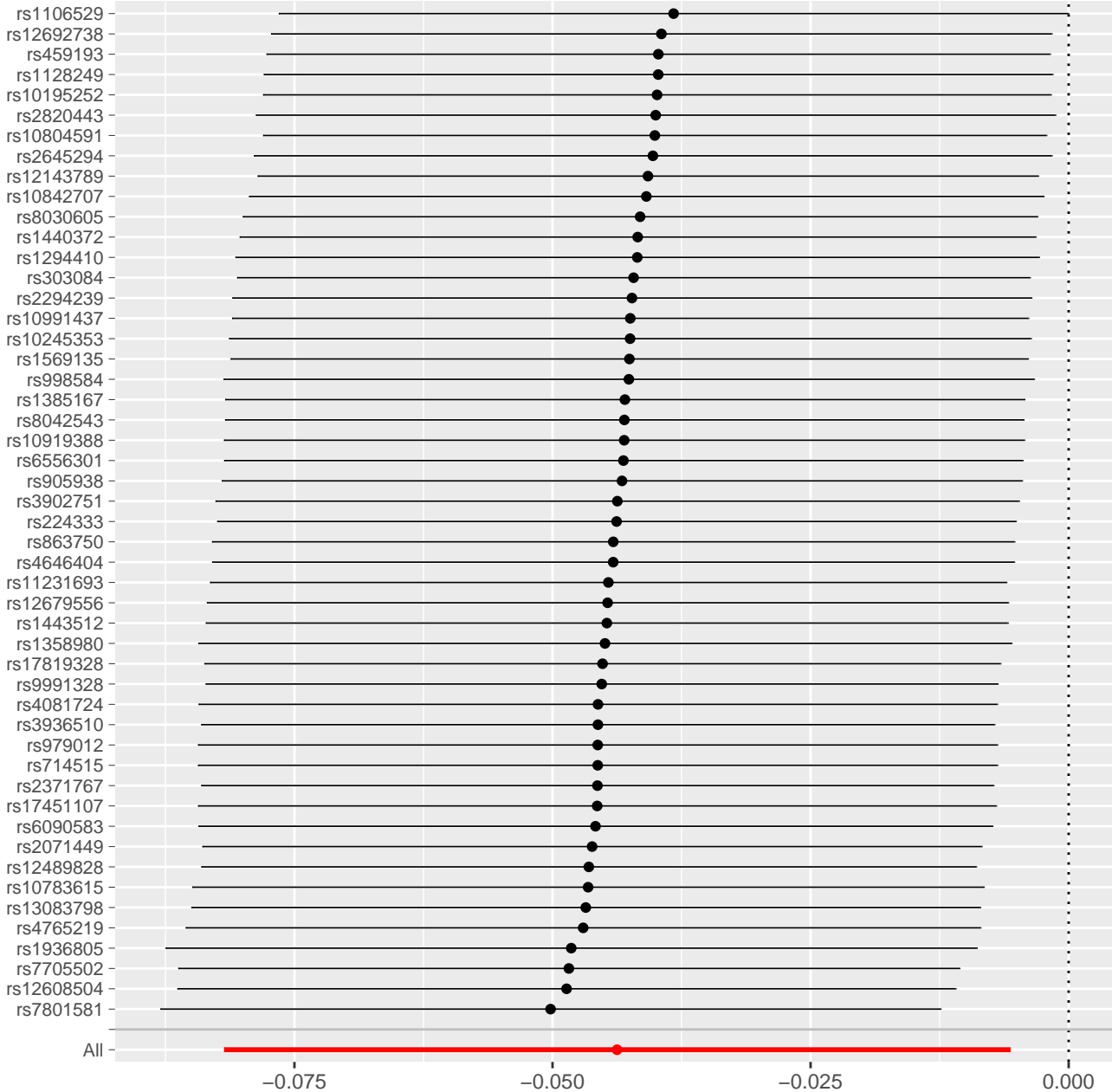'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12771 || id:657'

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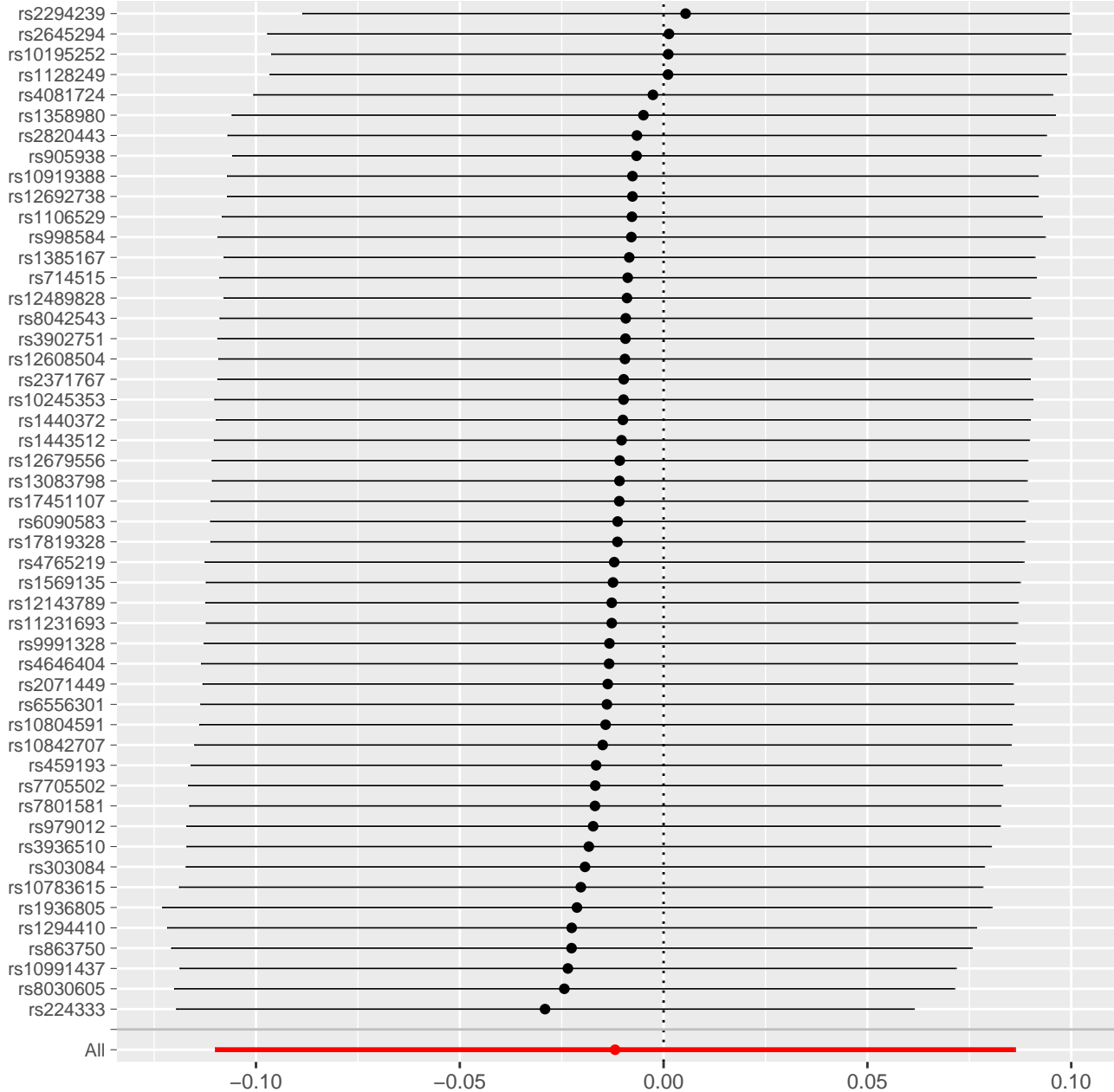'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12776 || id:658'

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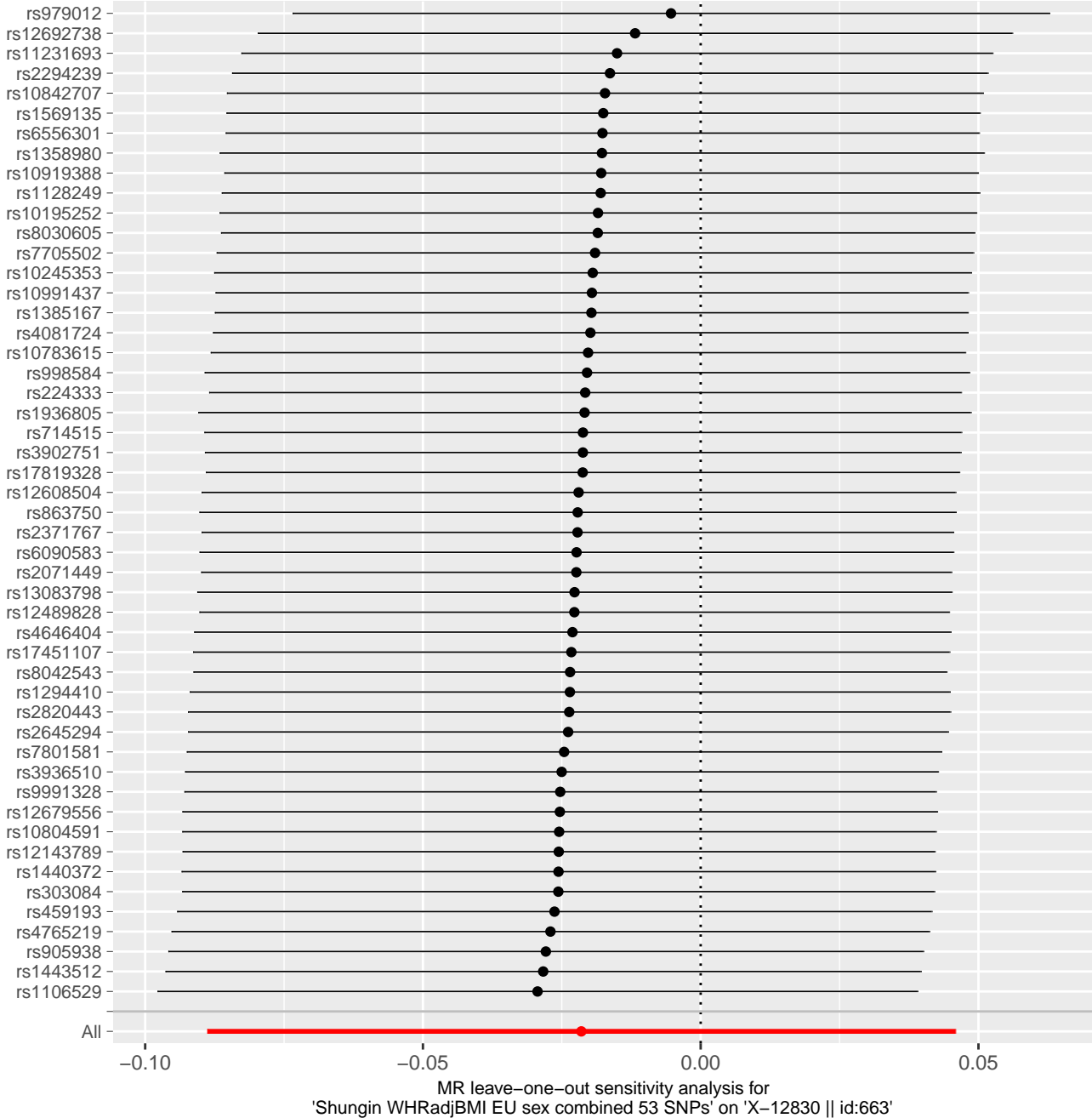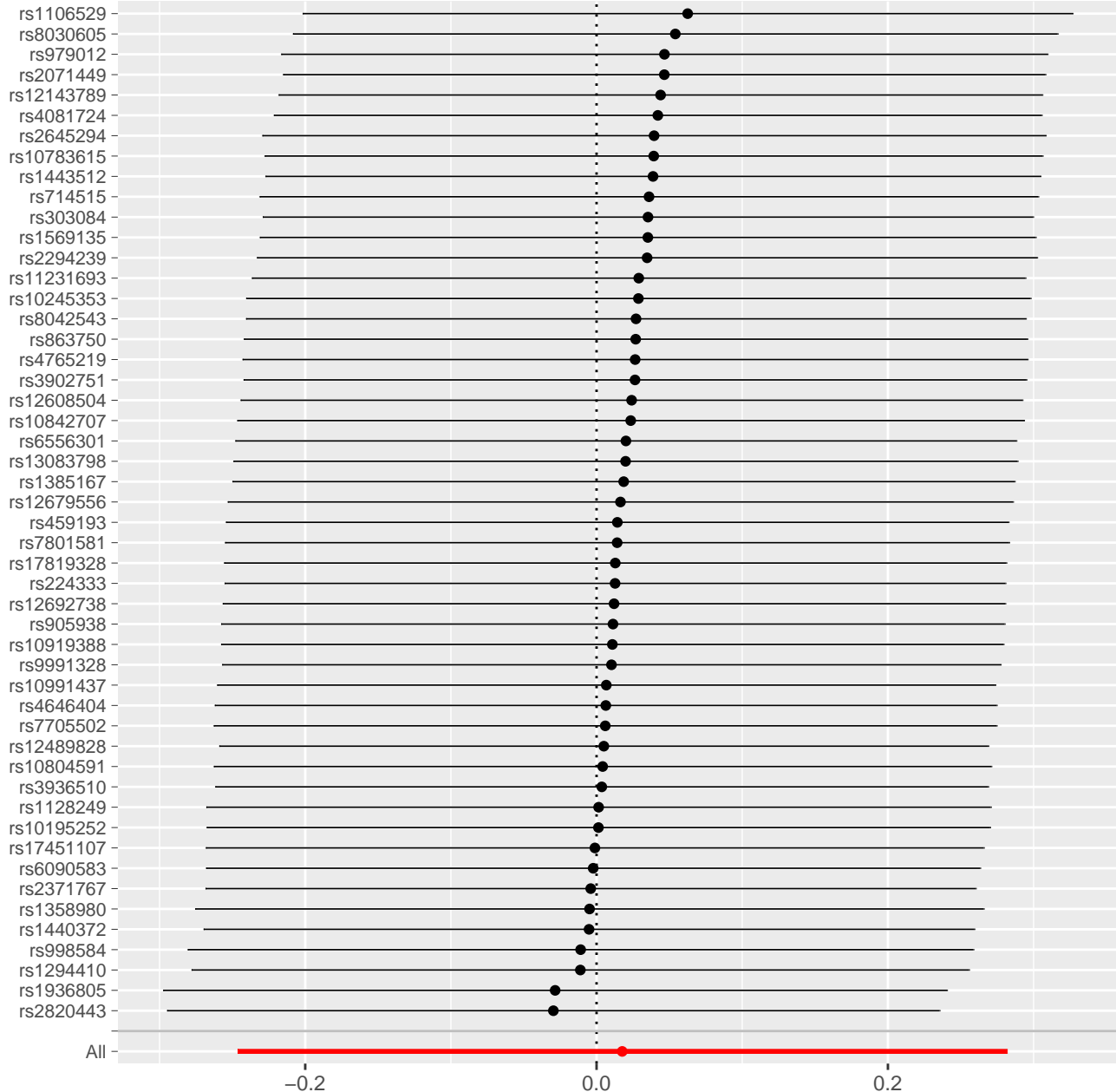'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12786 || id:660'

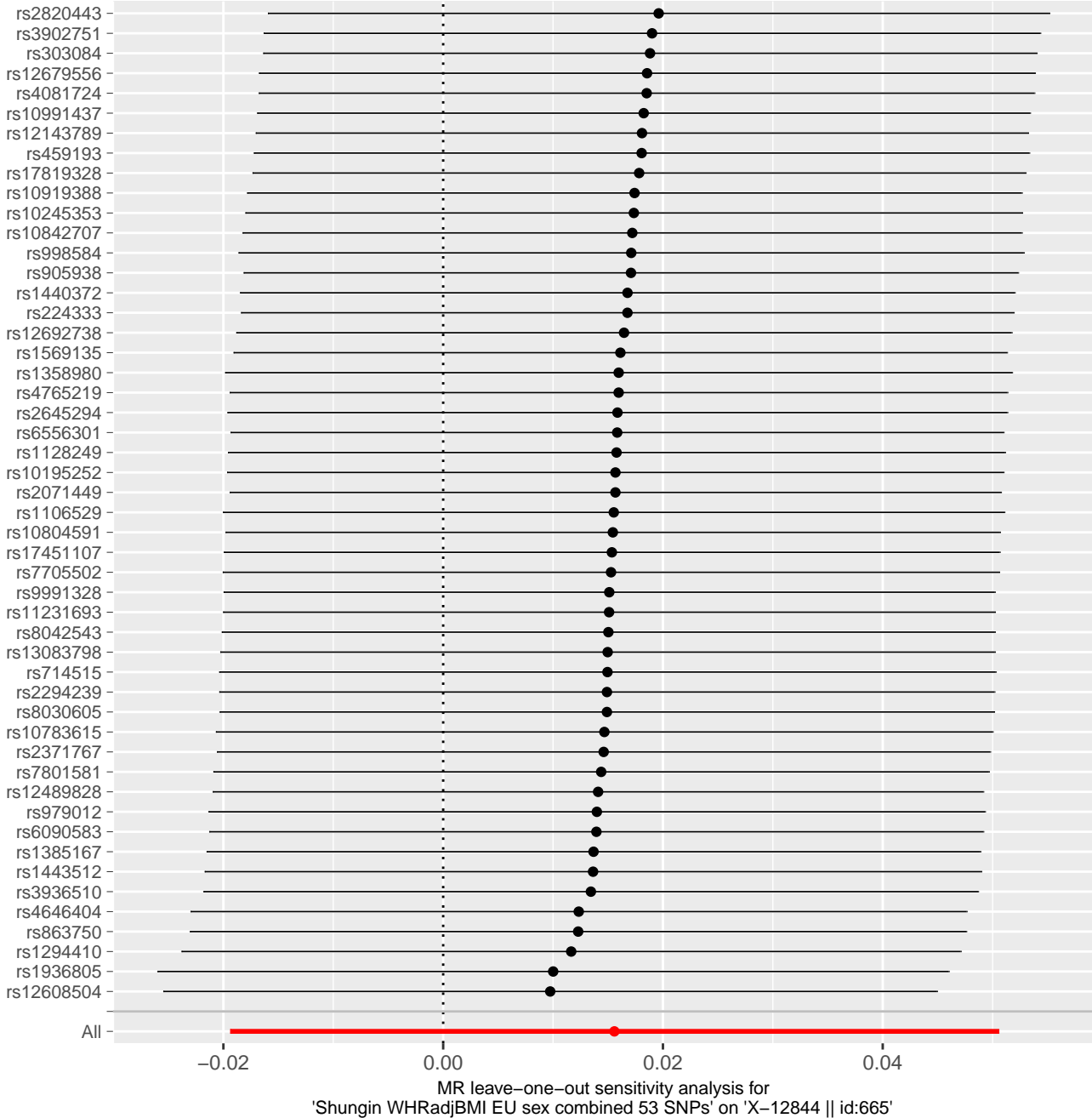MR leave−one−out sensitivity analysis for
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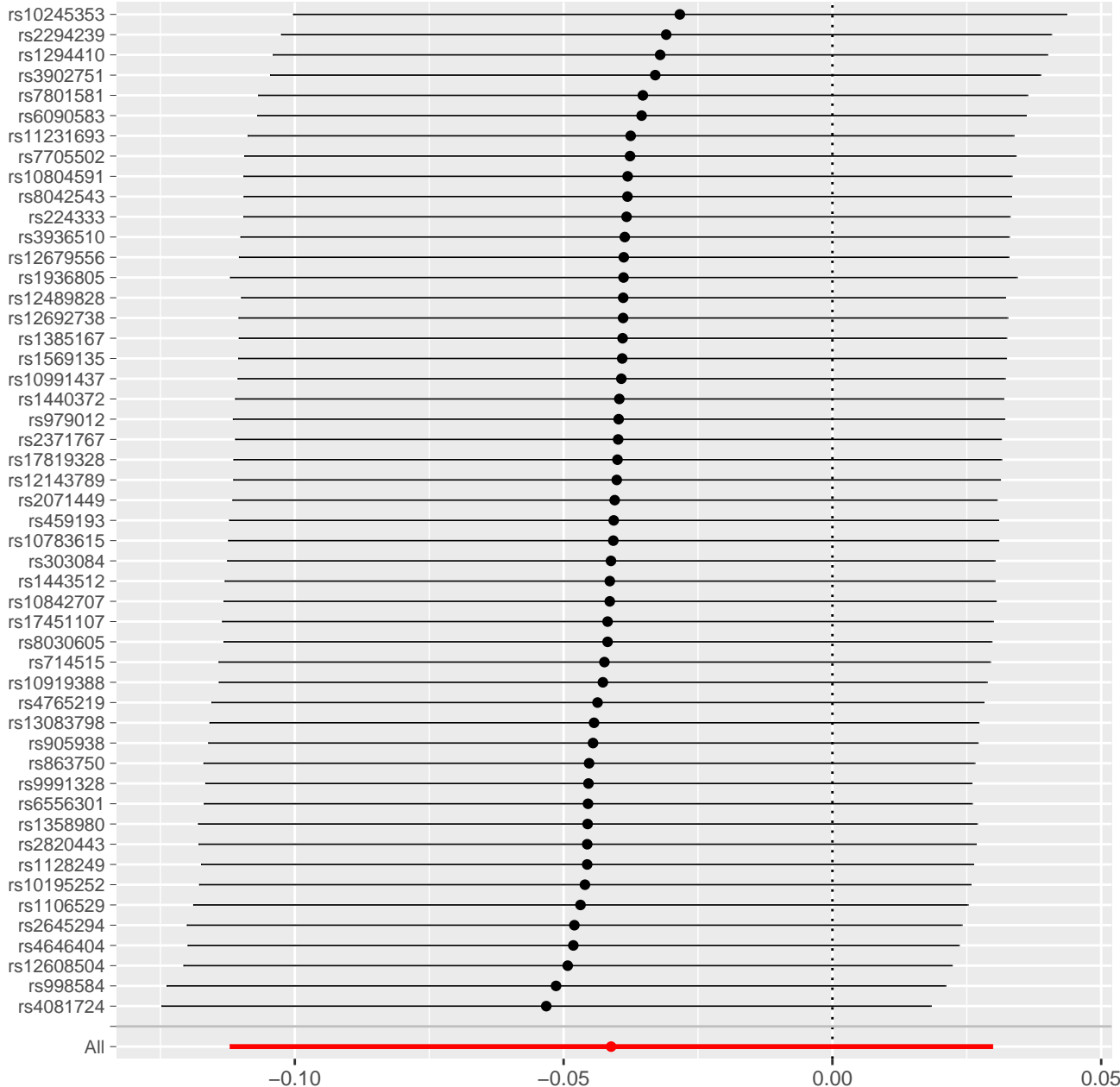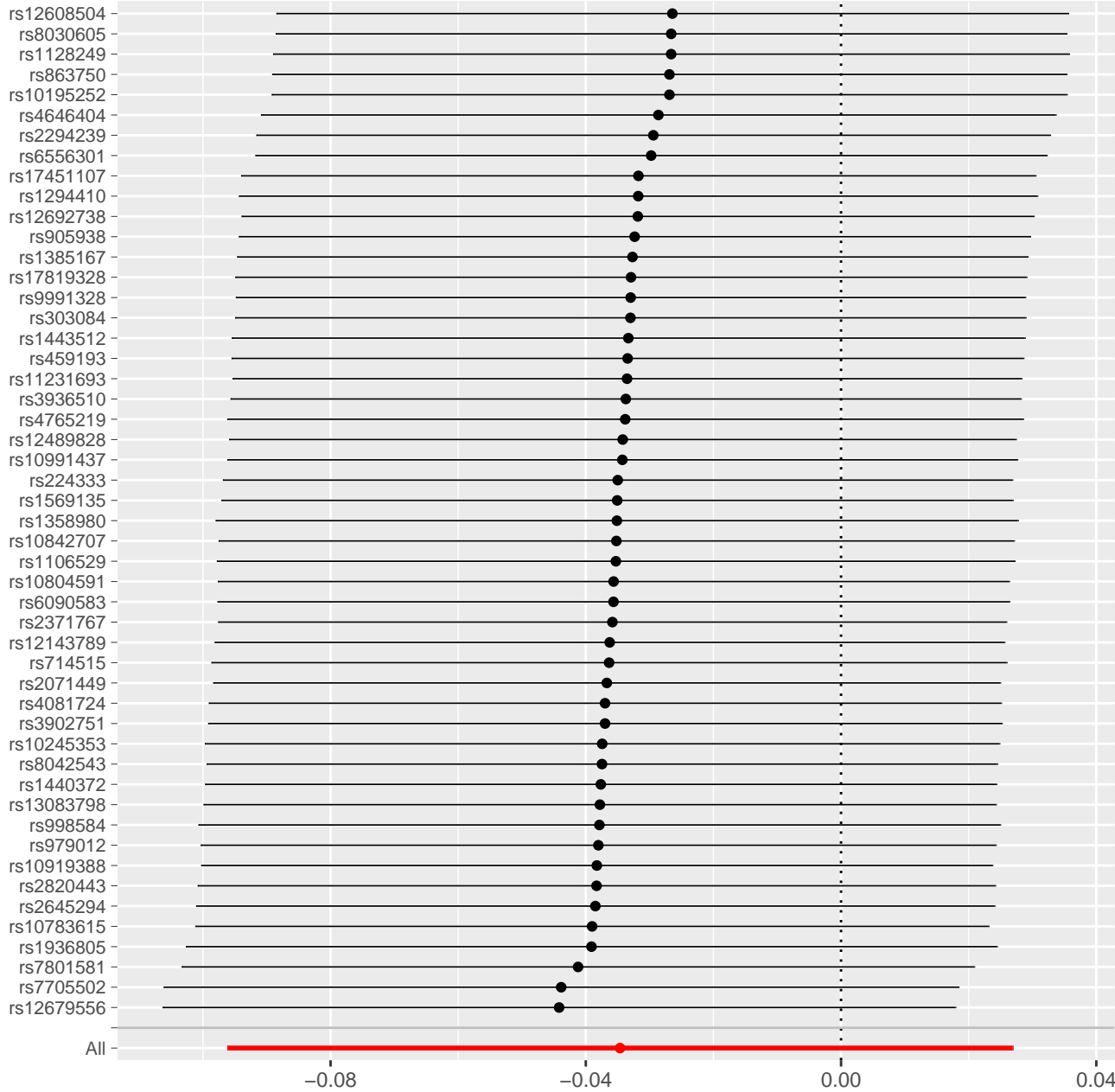
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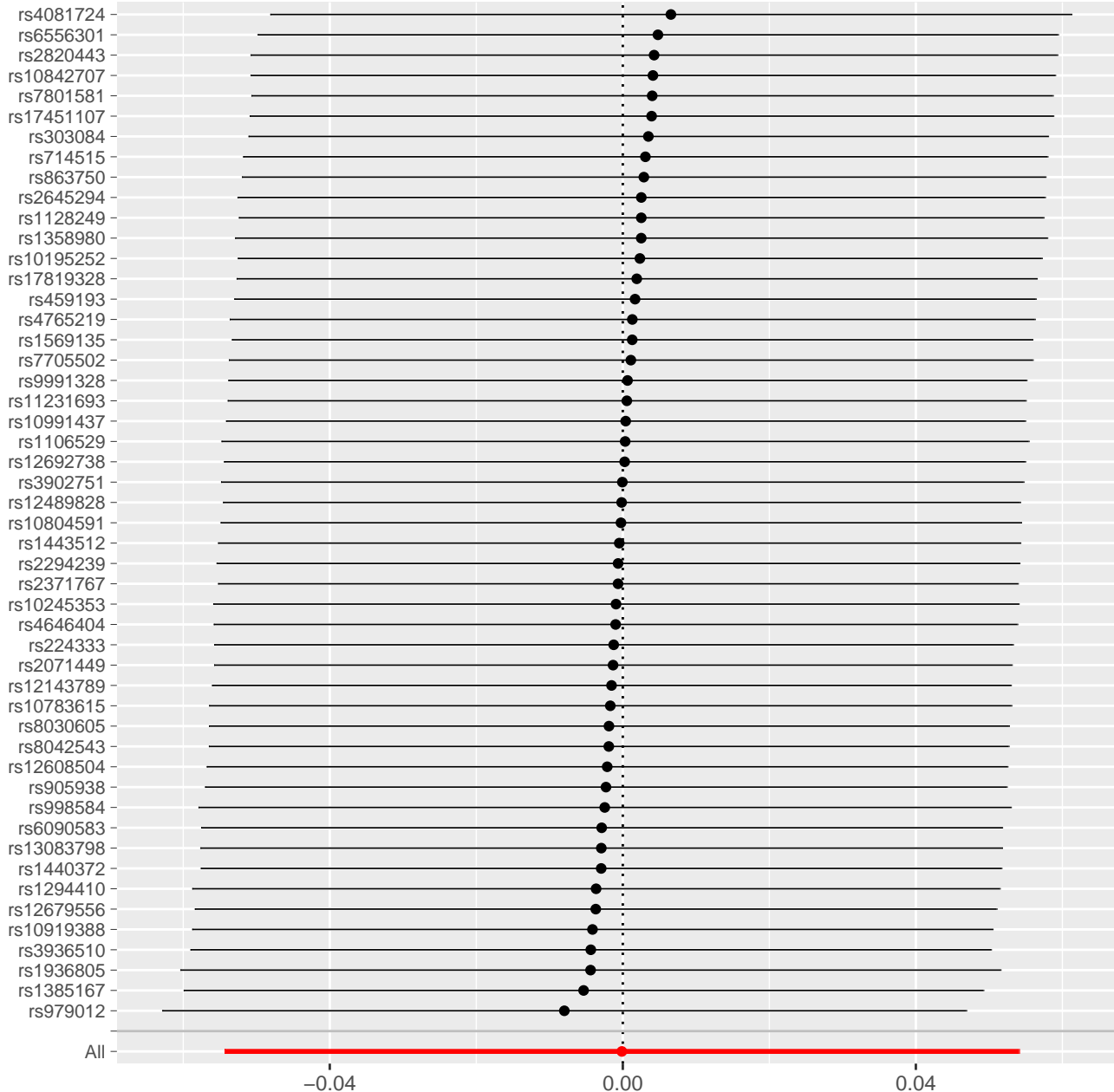'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12844 || id:665'

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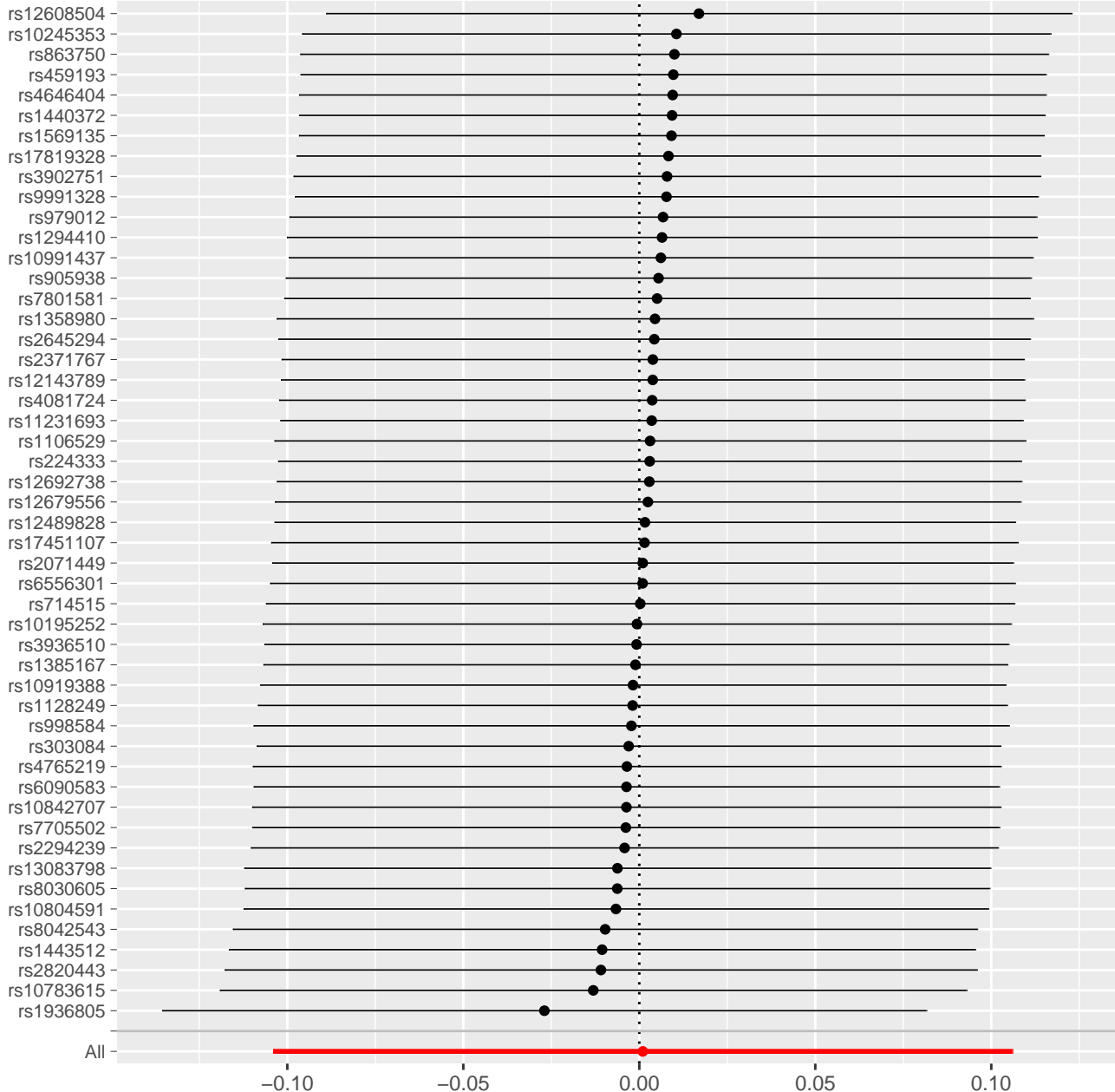'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−12851 || id:669'

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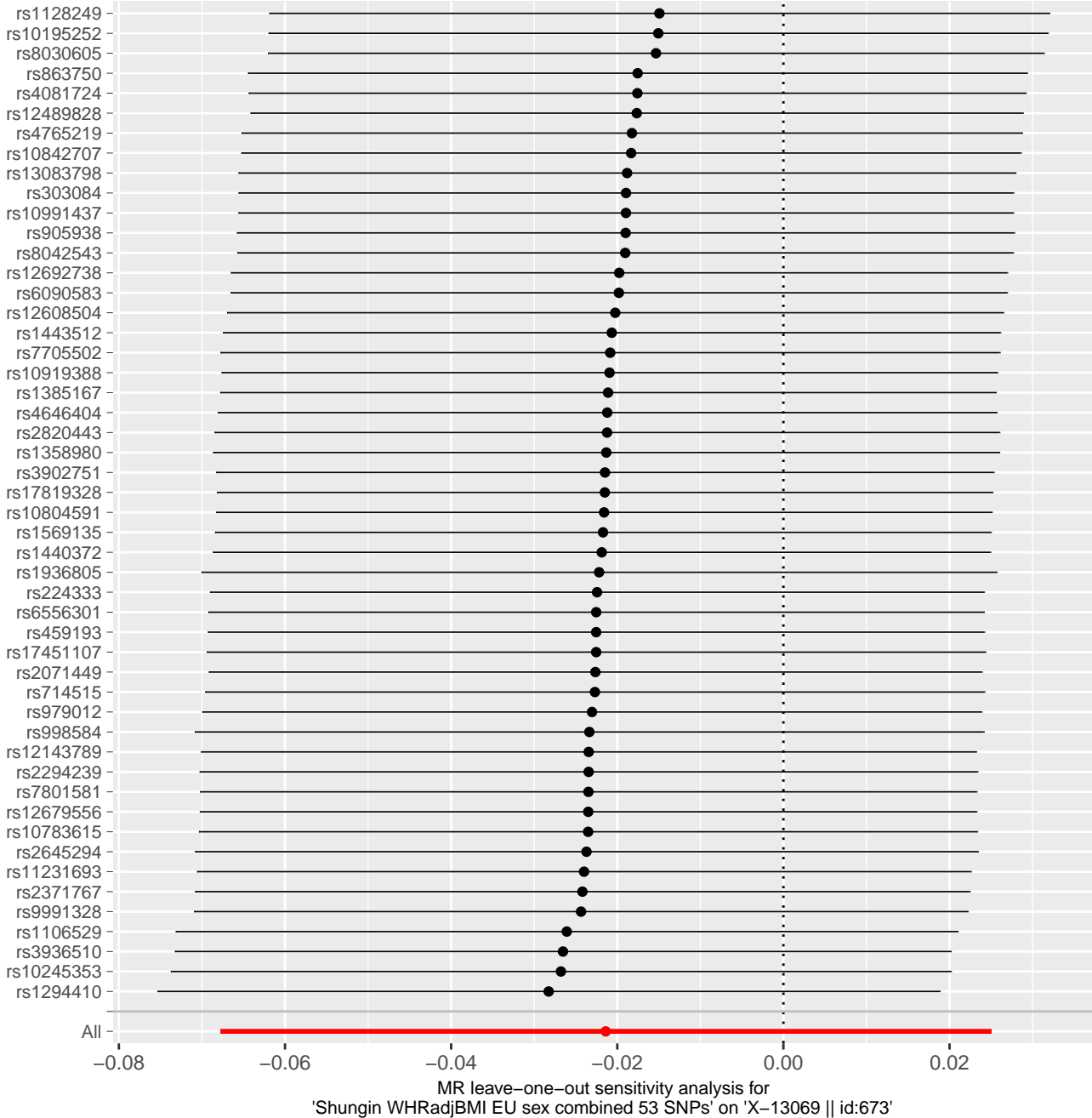'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13069 || id:673'

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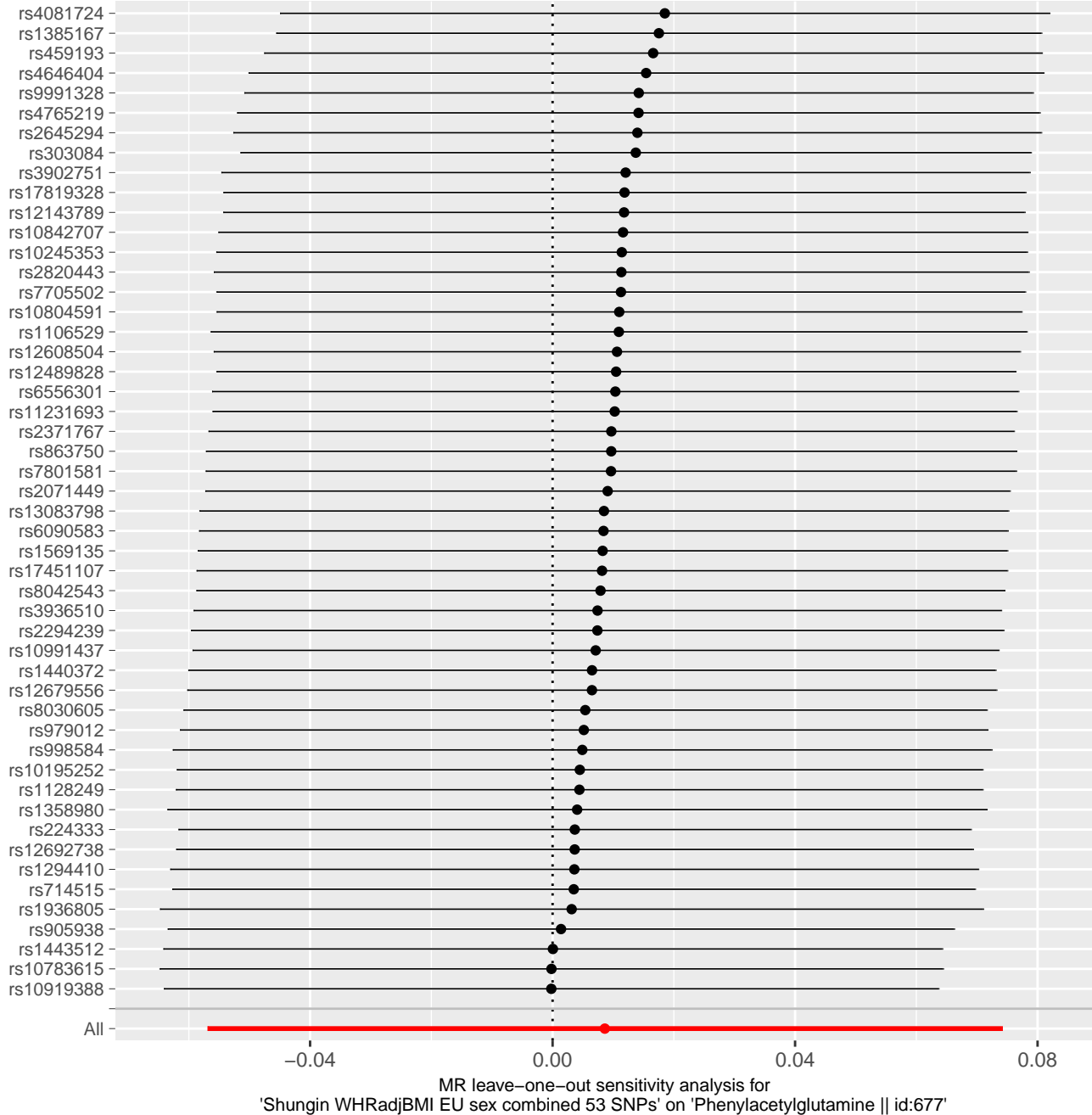'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13183−−stearamide || id:674'

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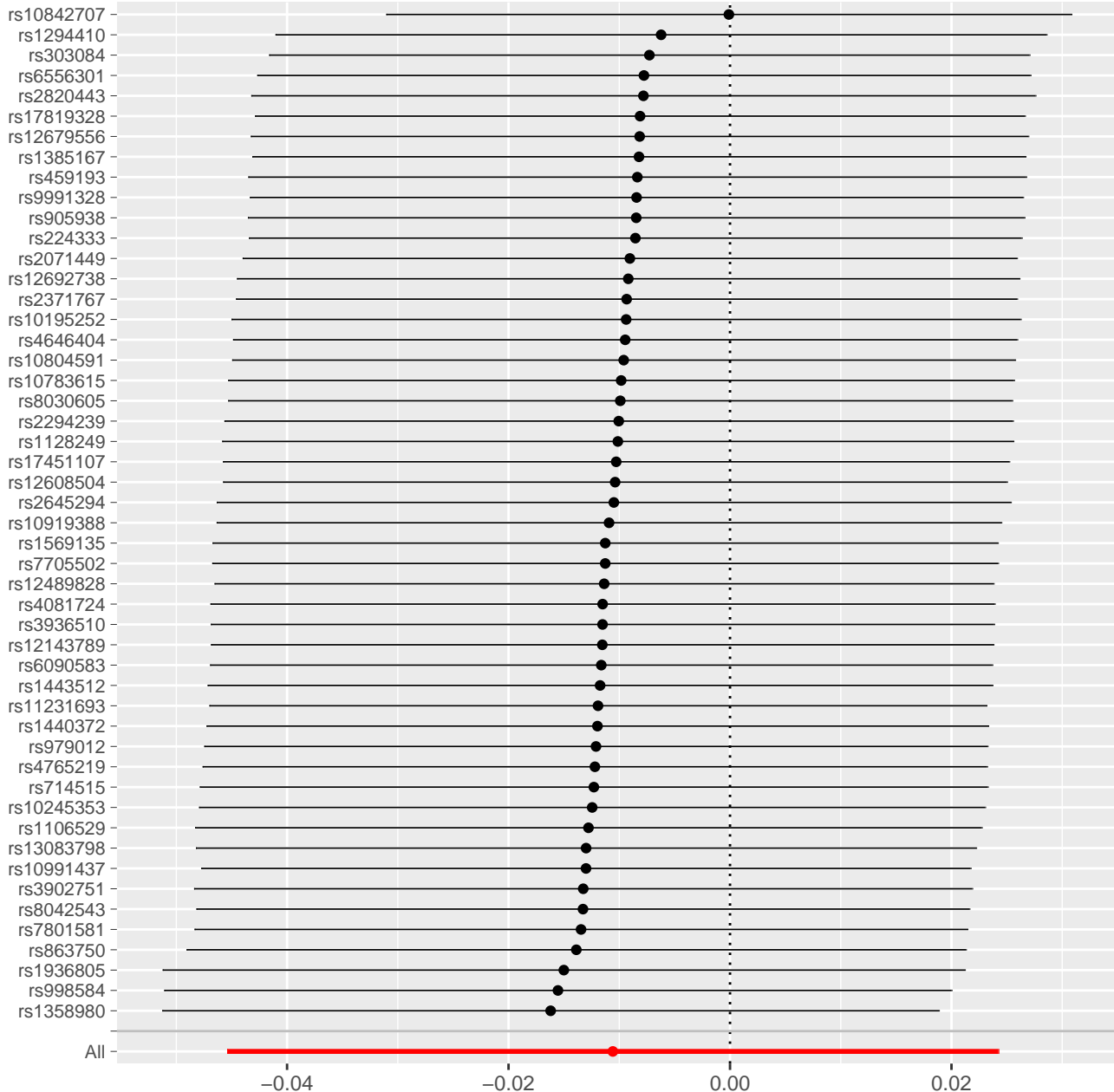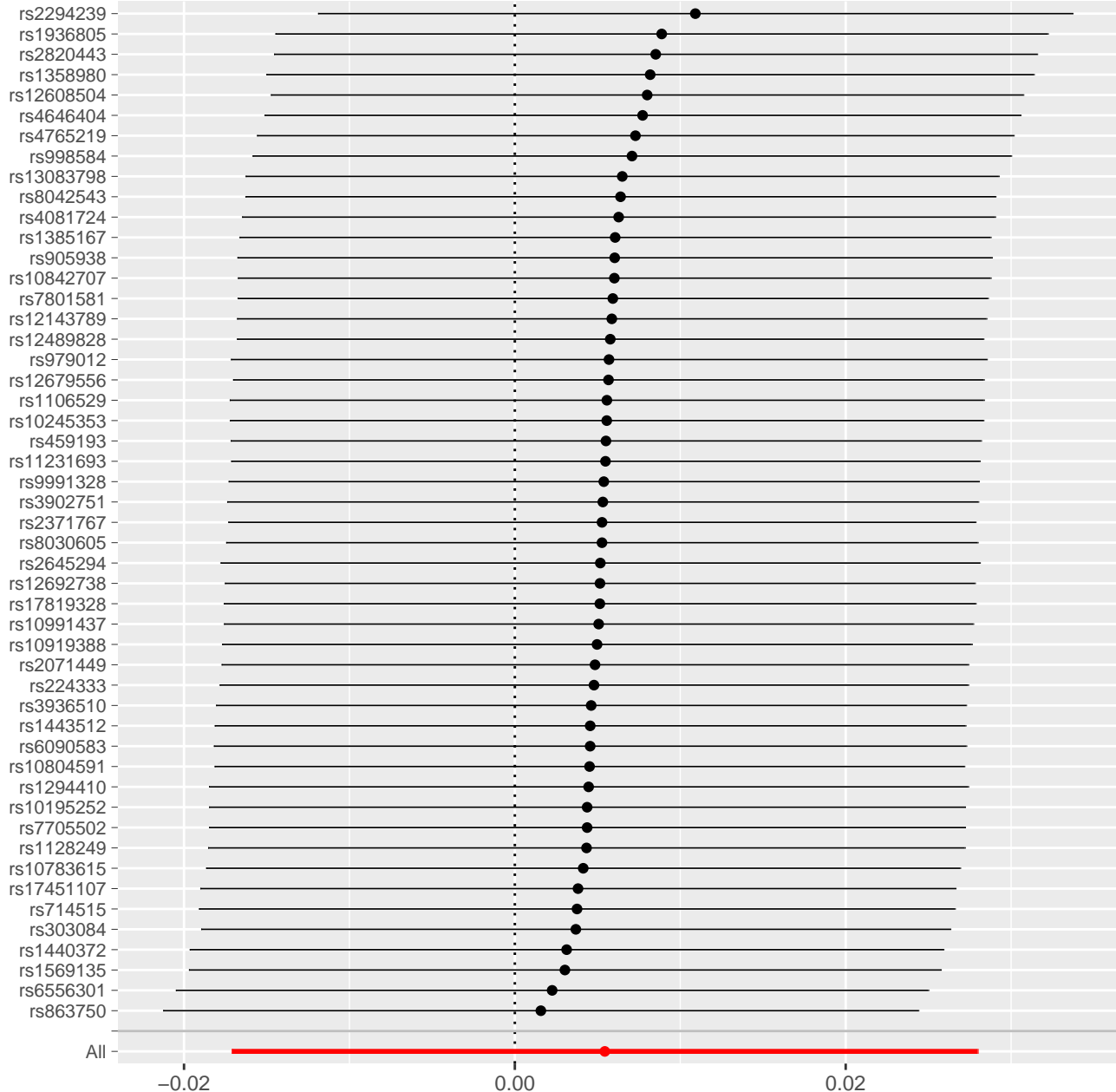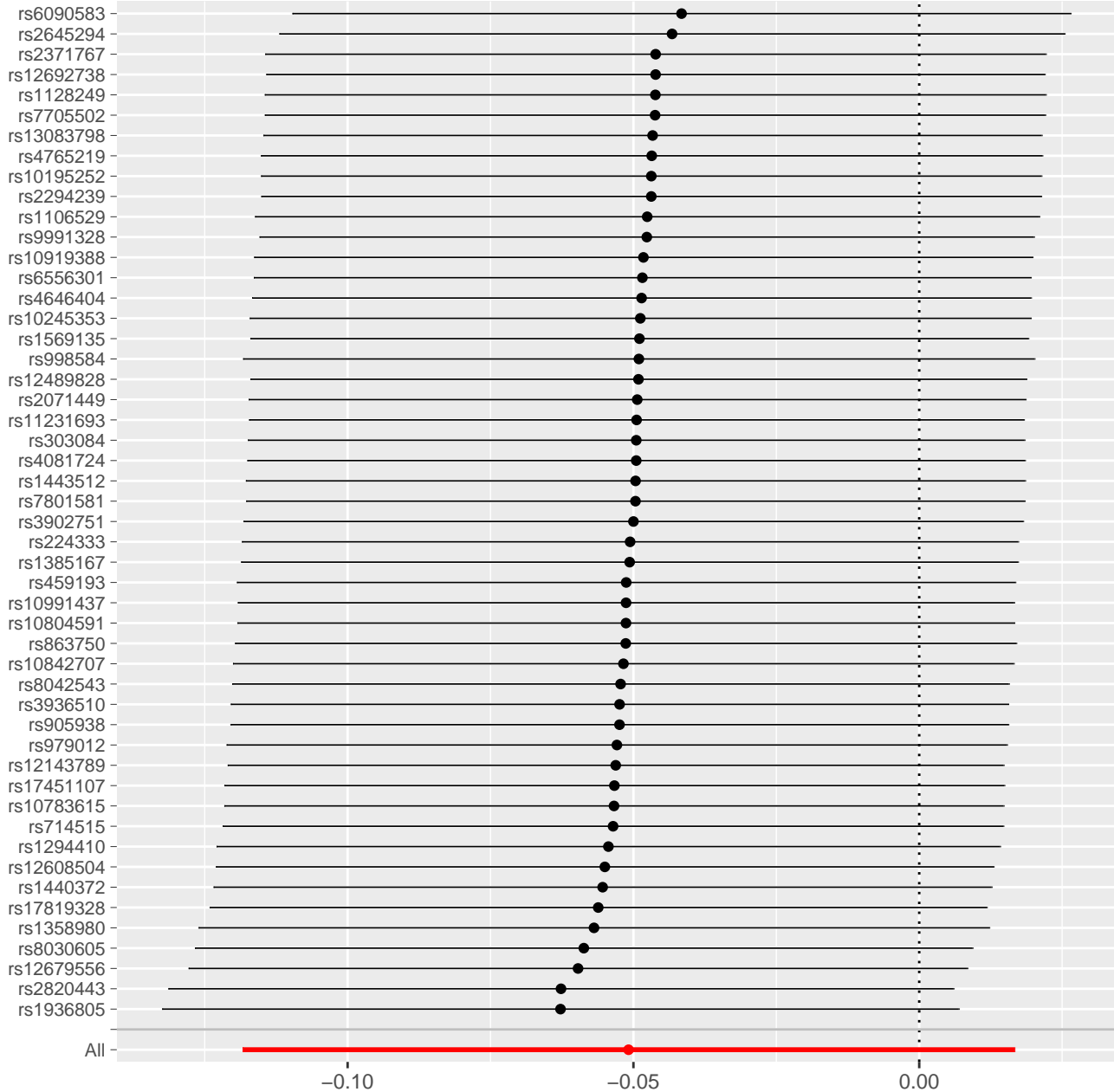
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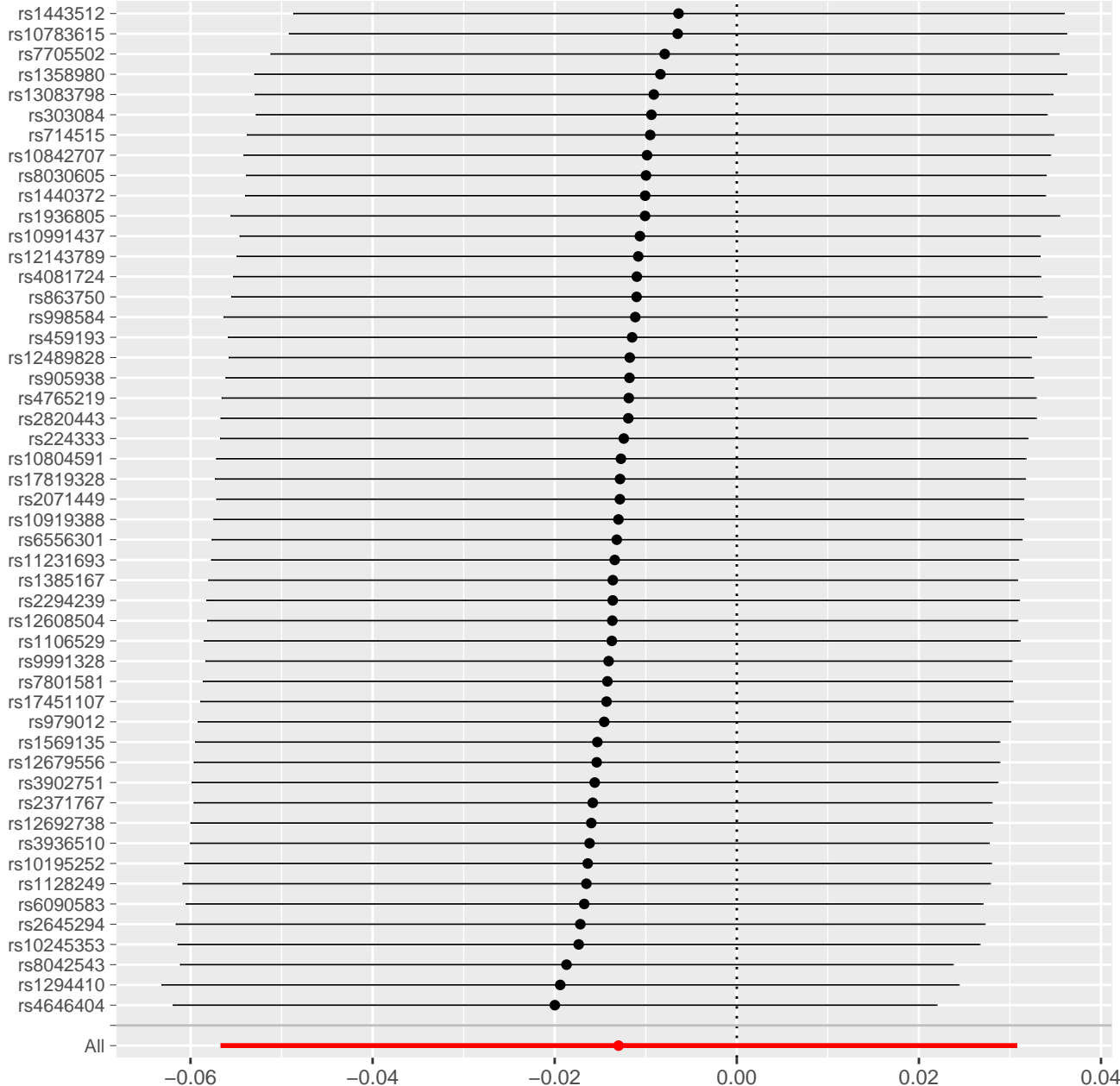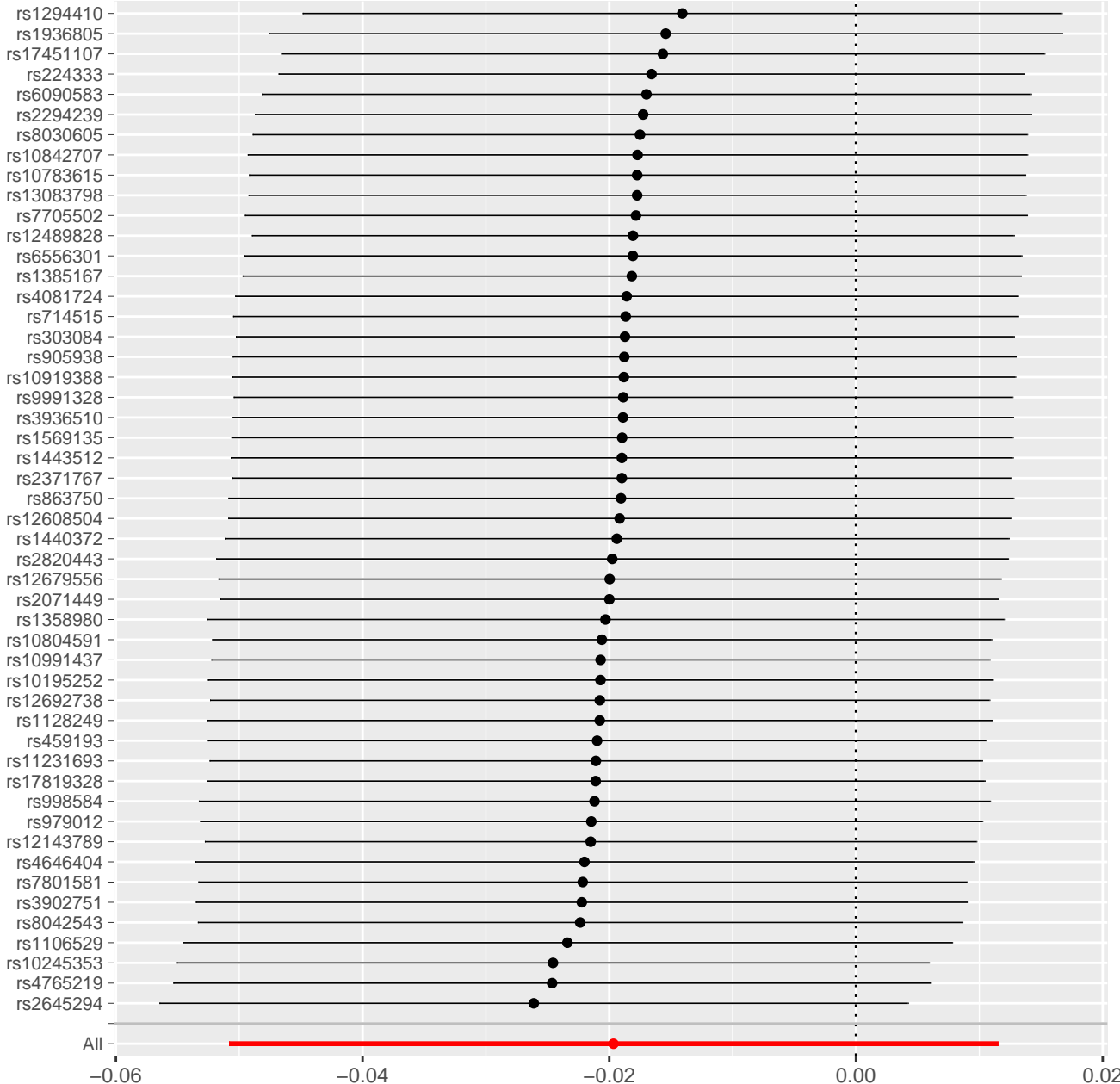
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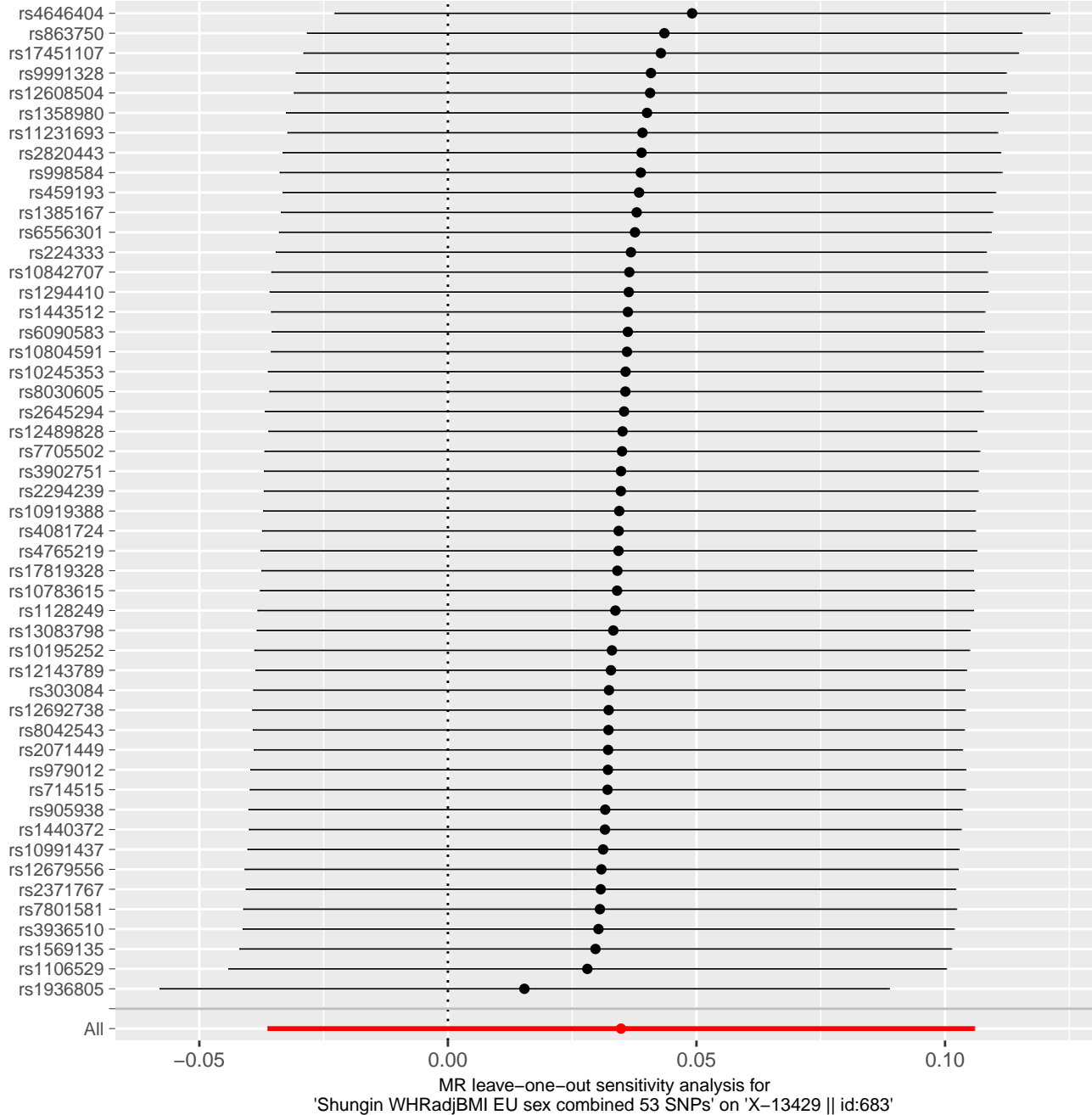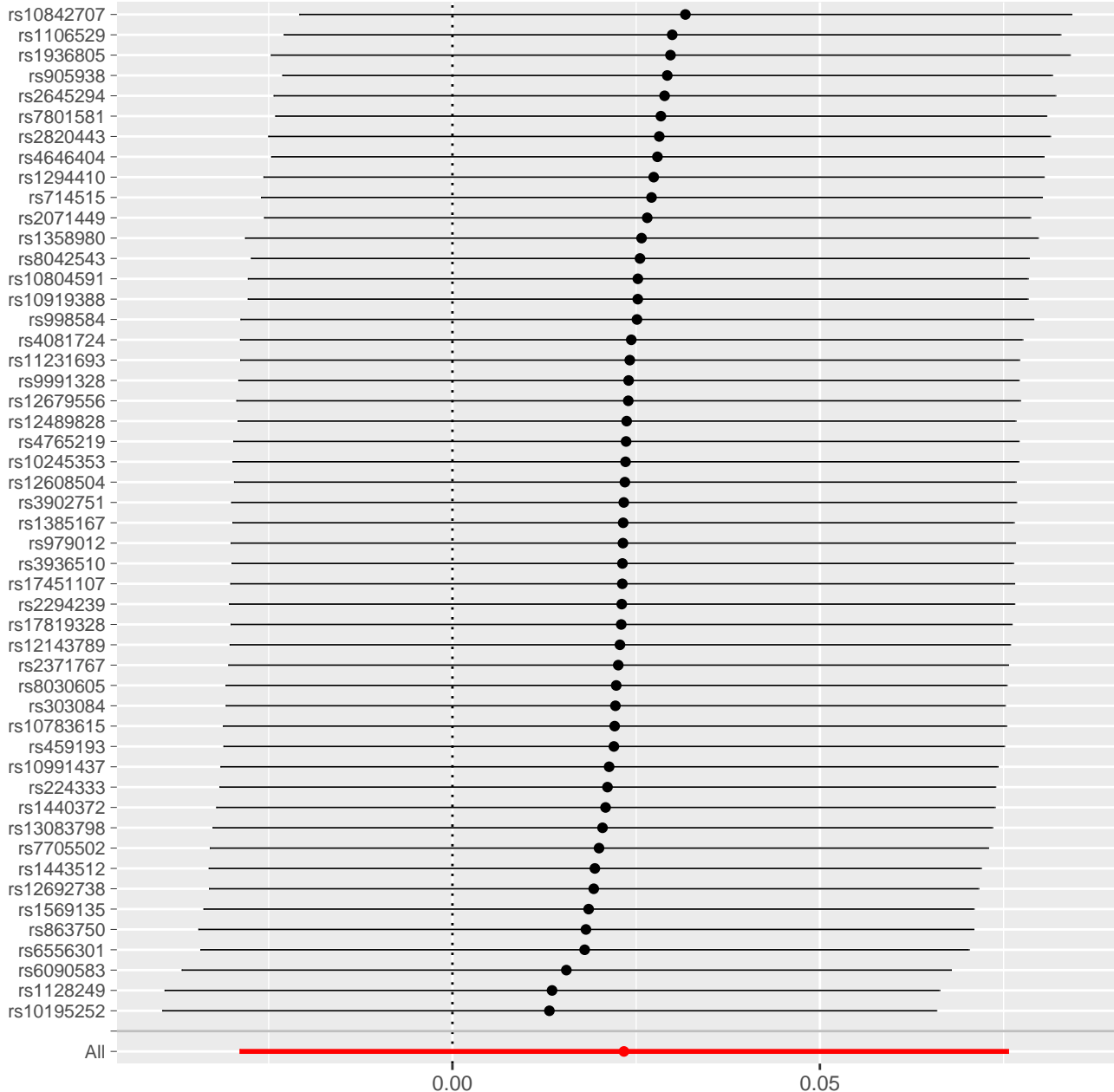
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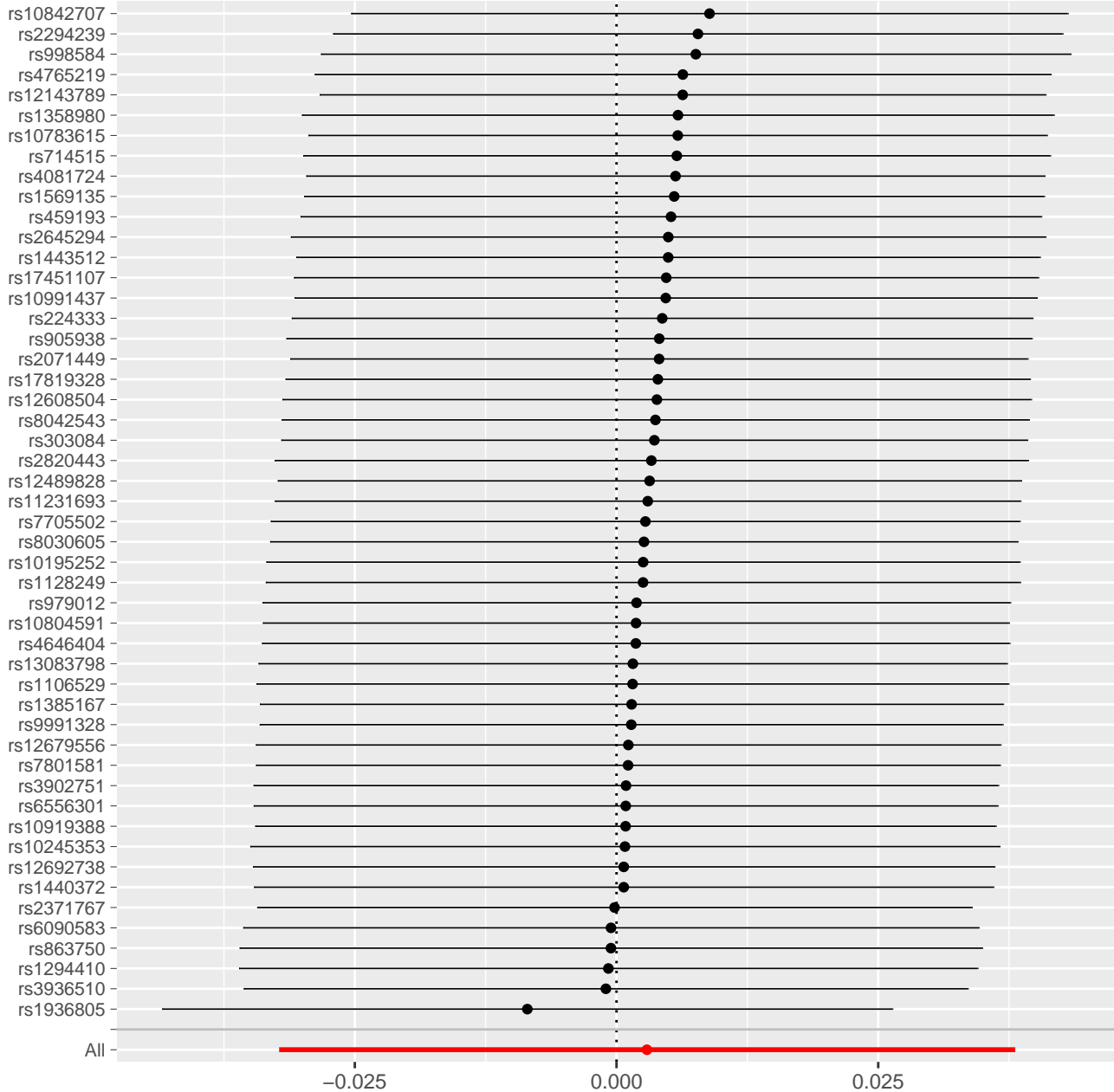
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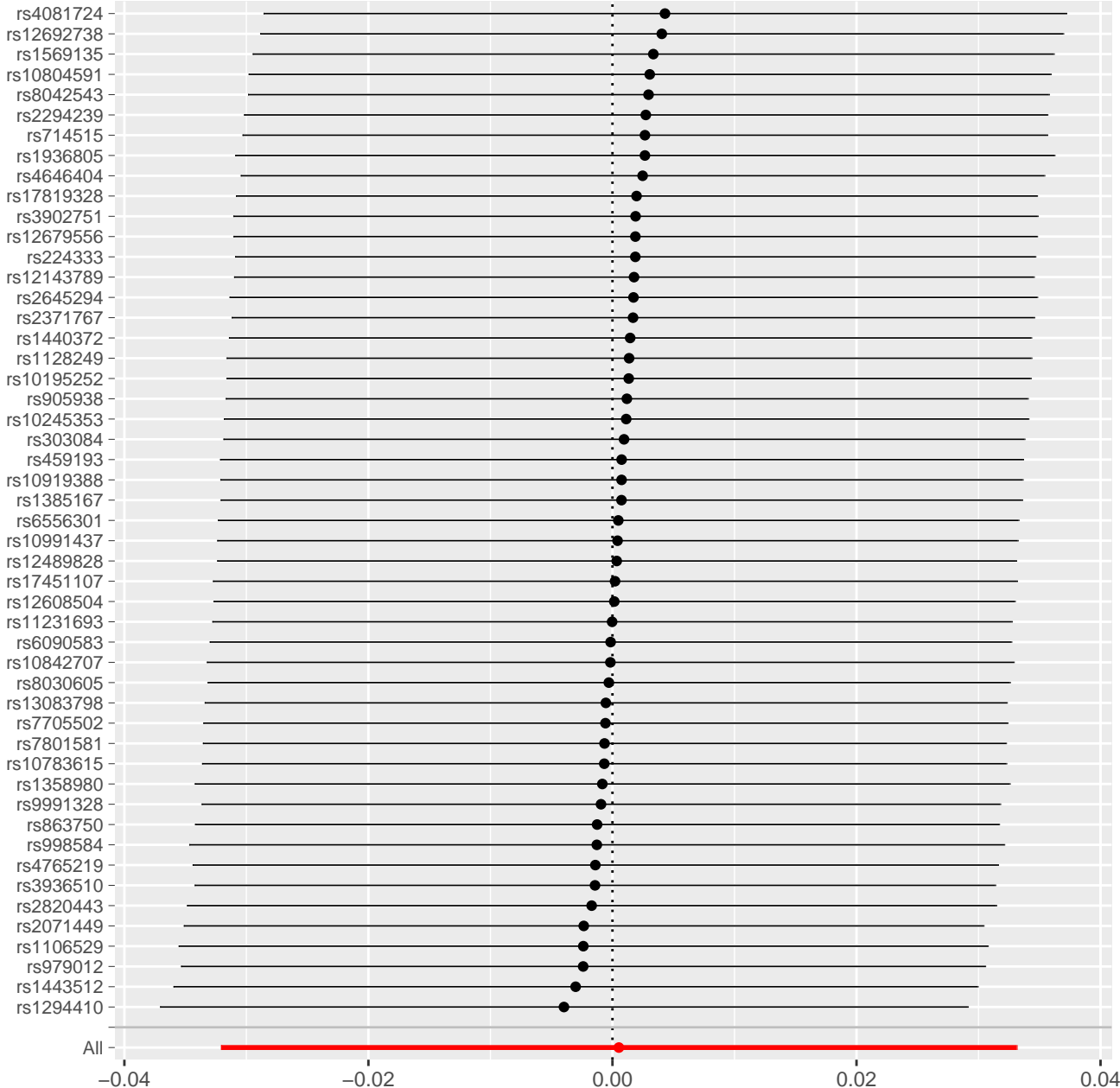'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Oleoylcarnitine || id:681'

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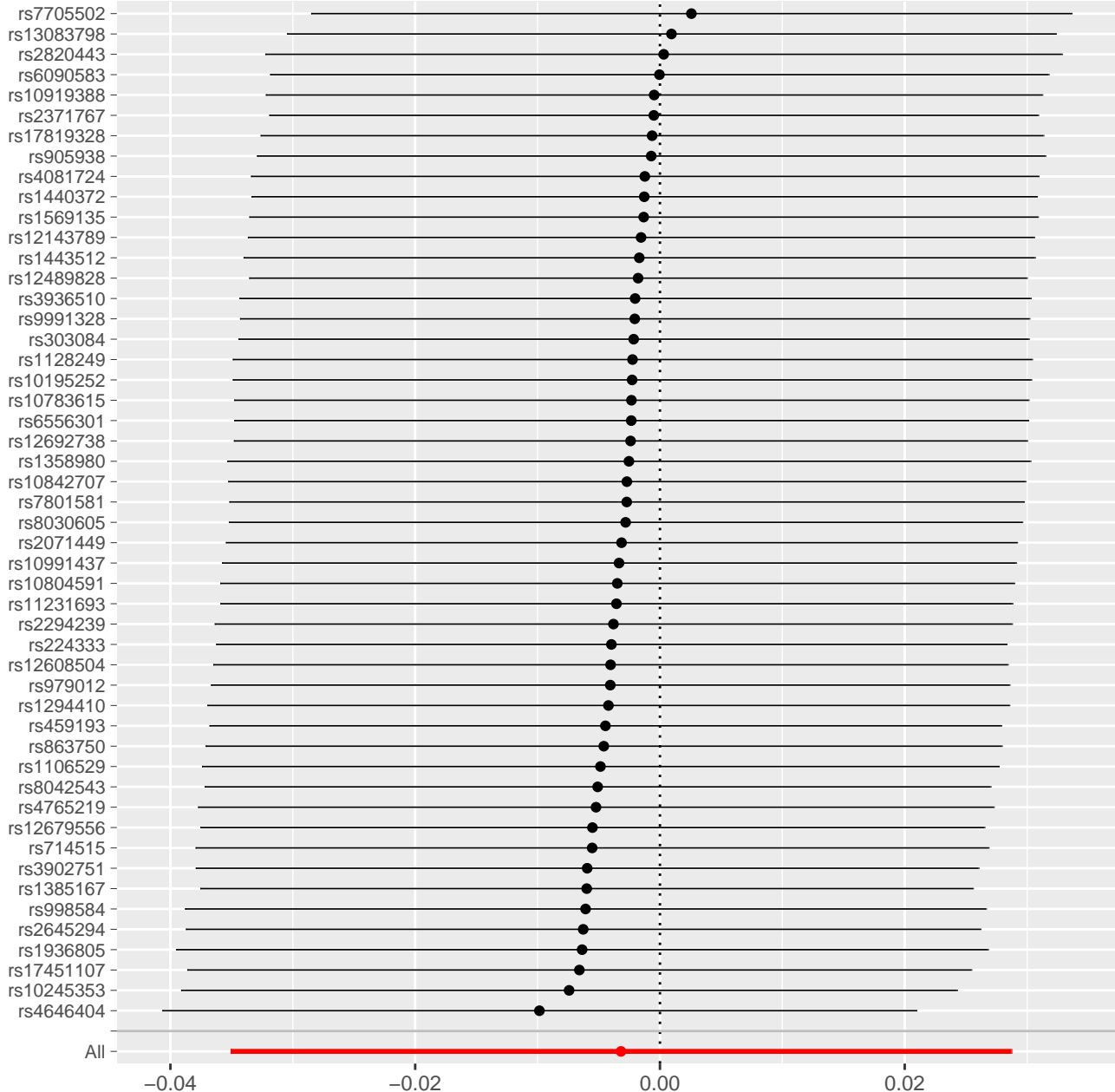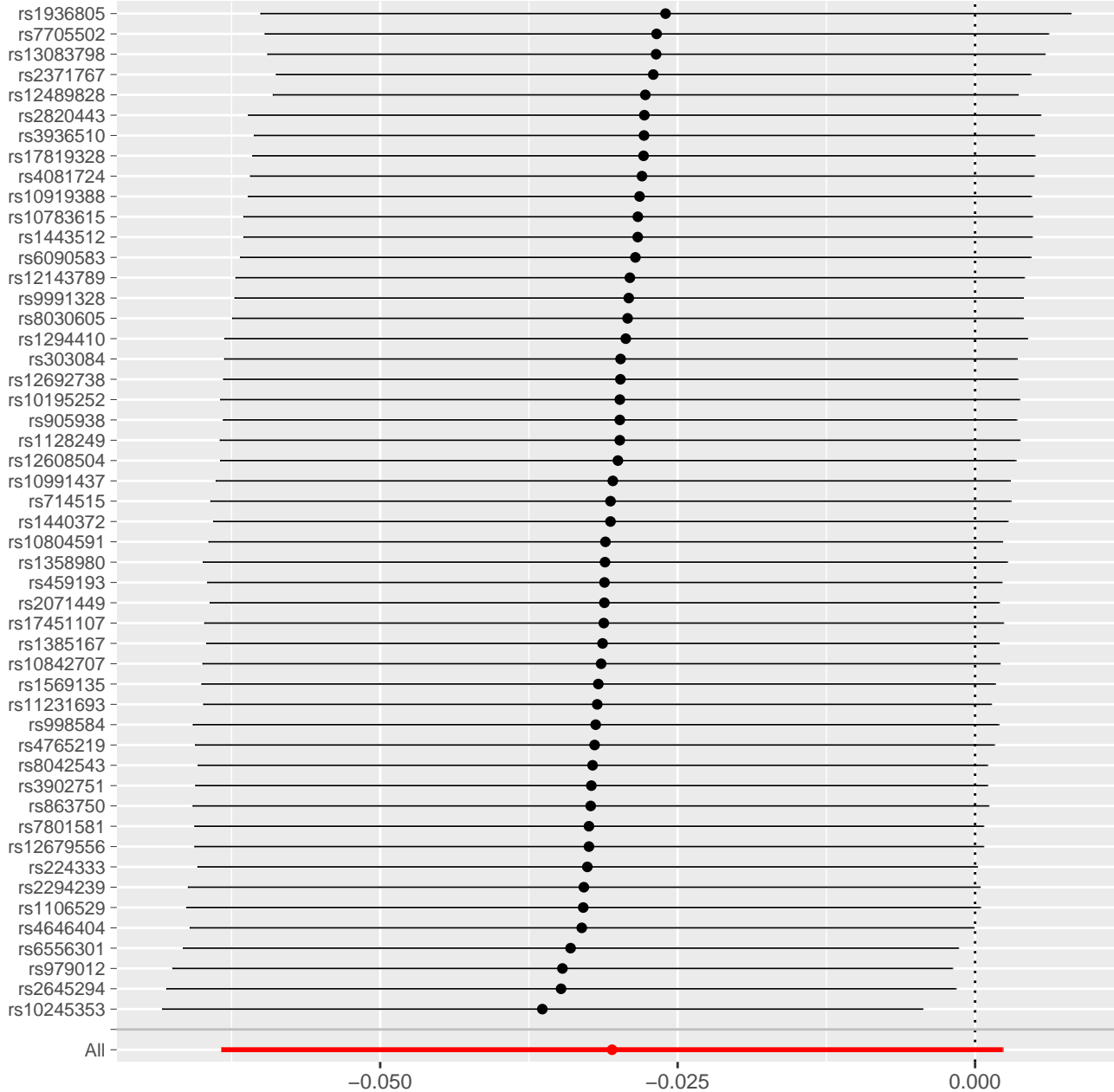'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13431−−nonanoylcarnitine* || id:684'

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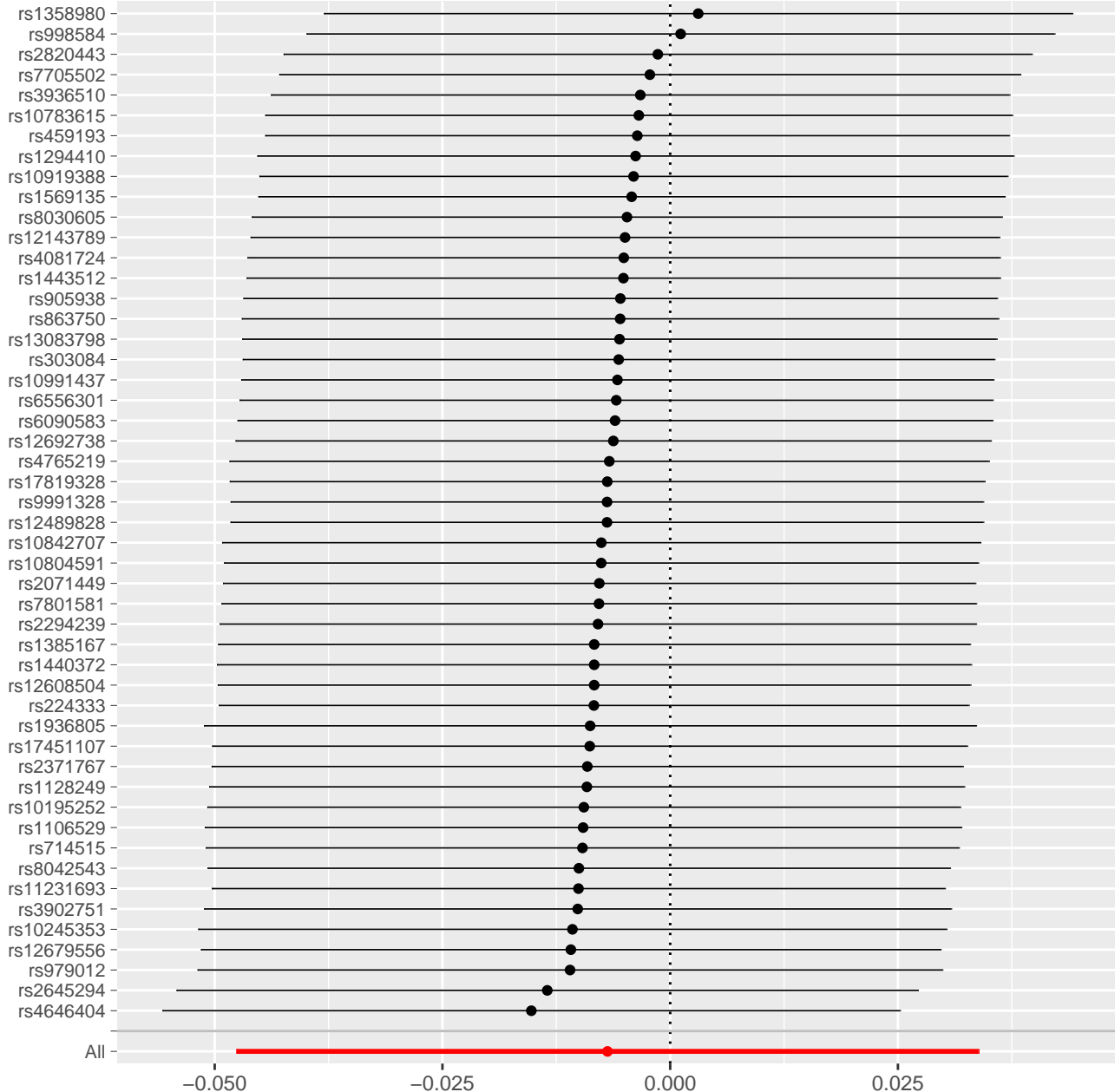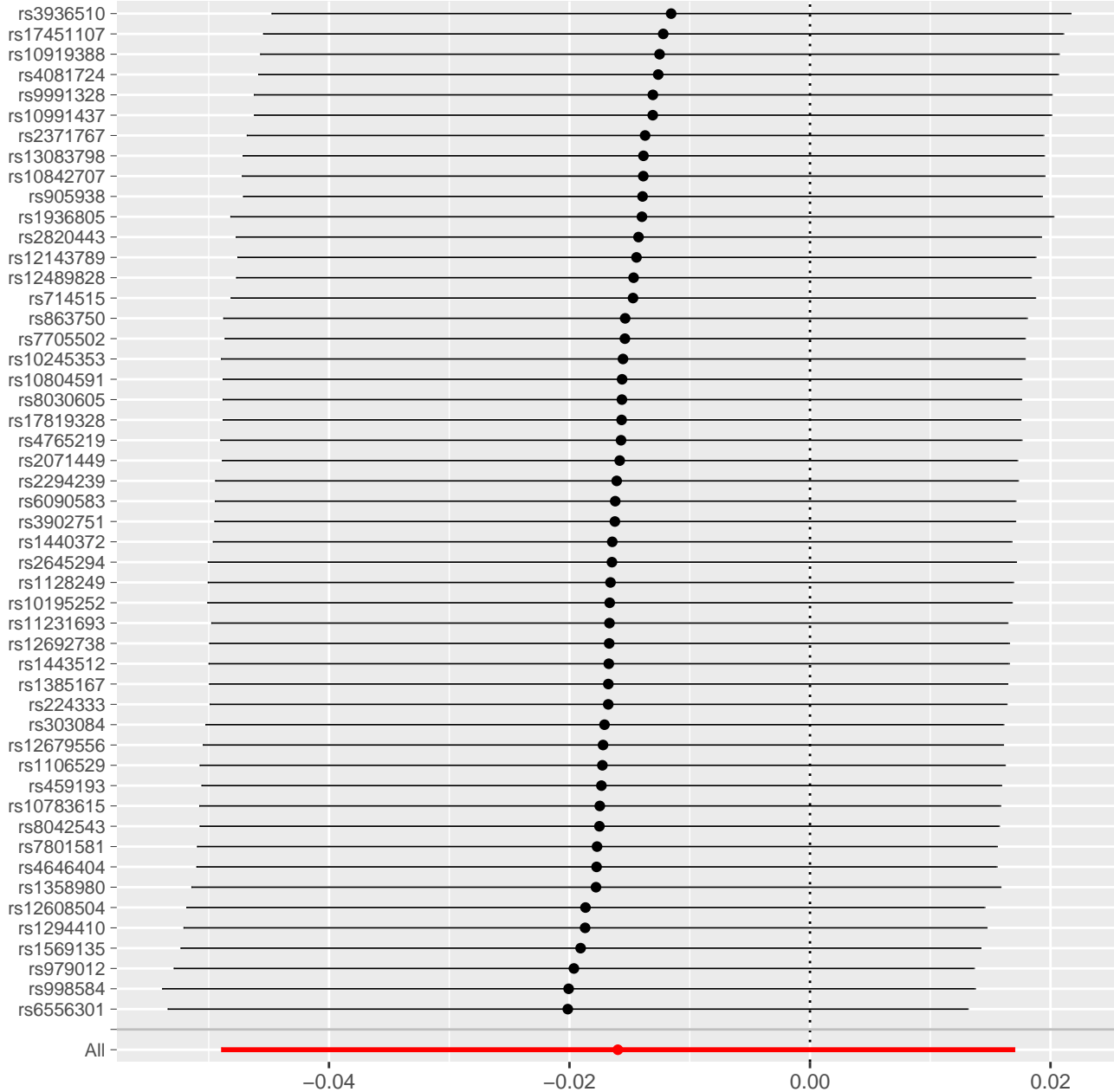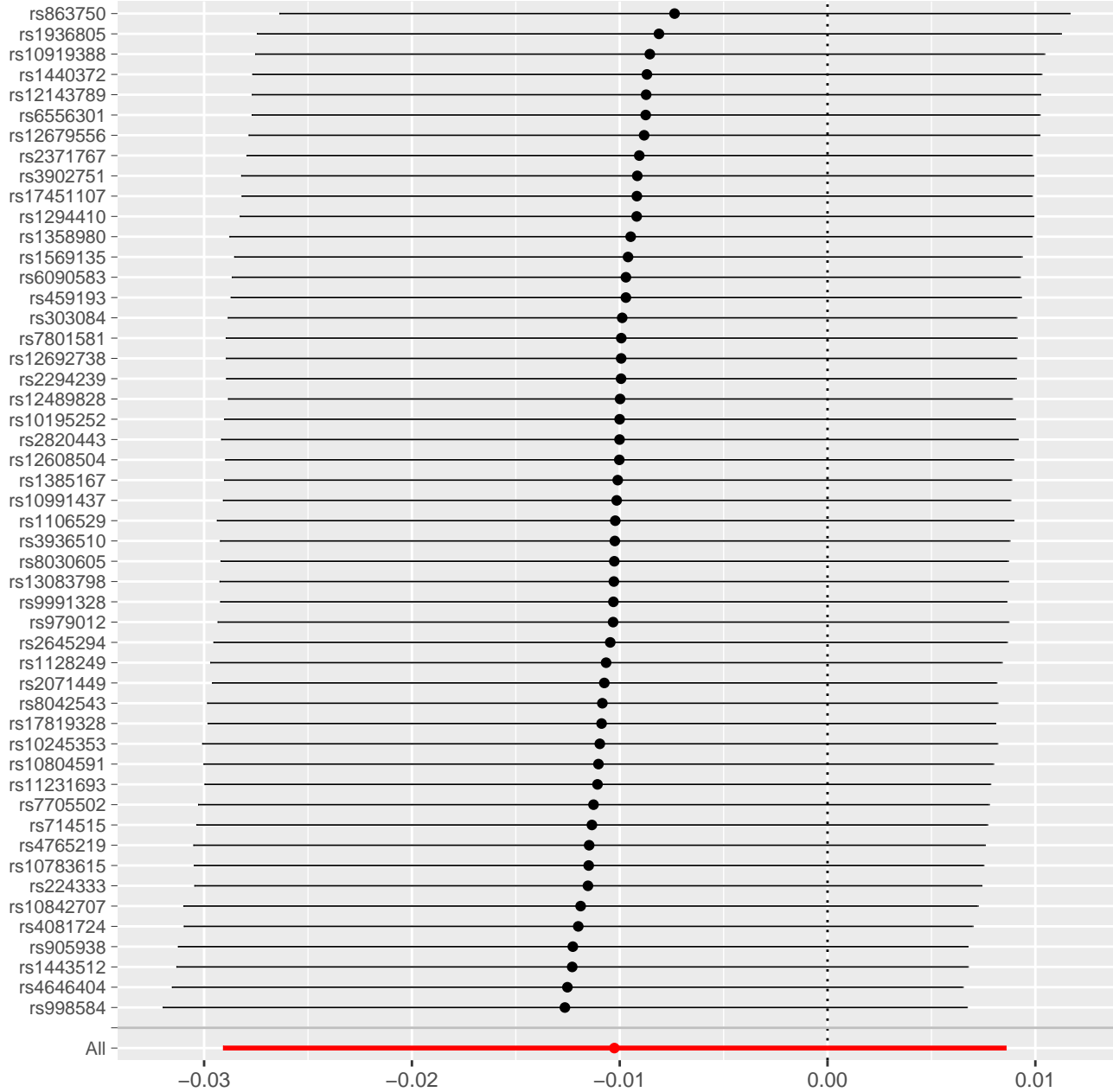'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−palmitoylglycerophosphocholine* || id:687'

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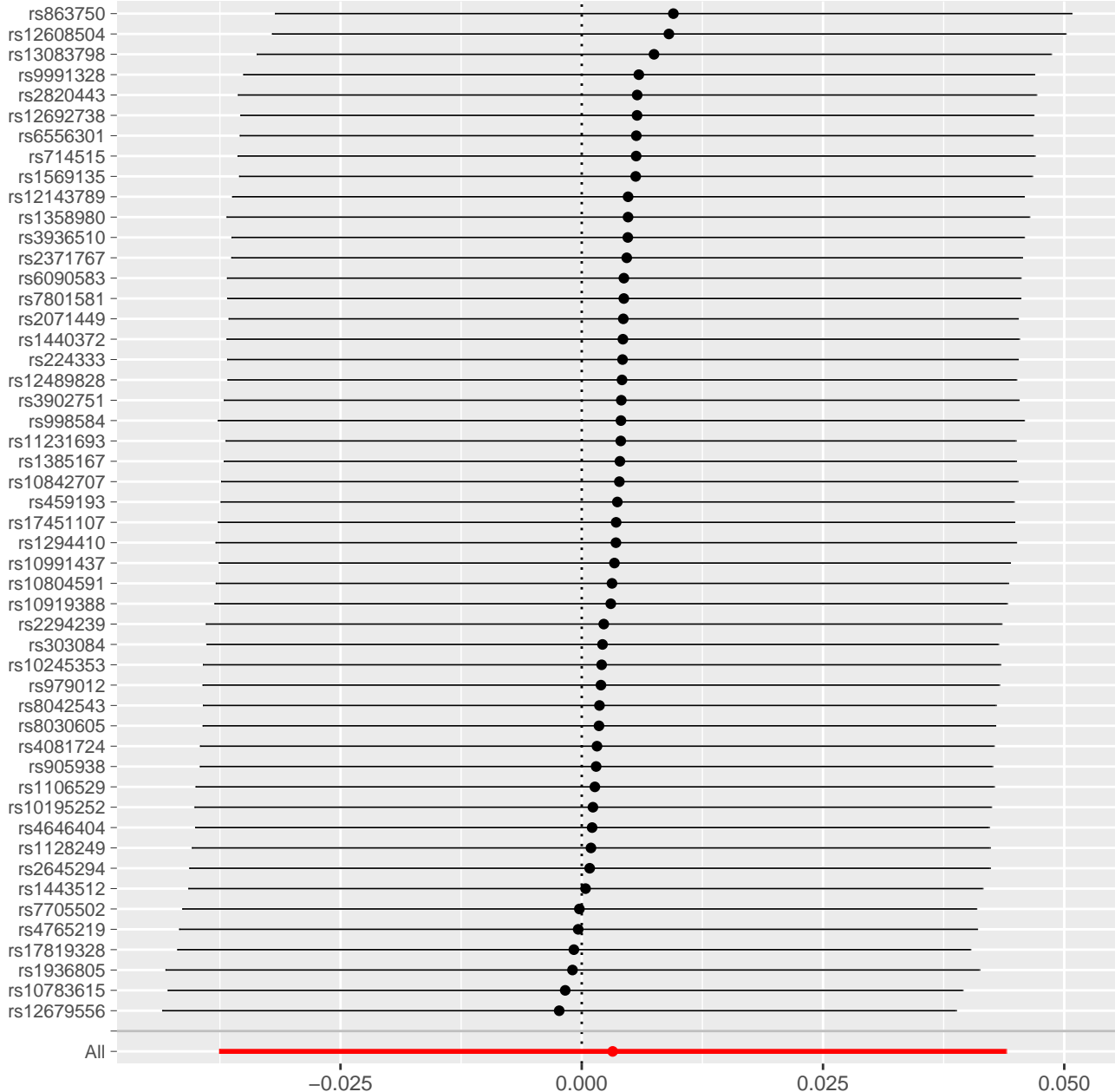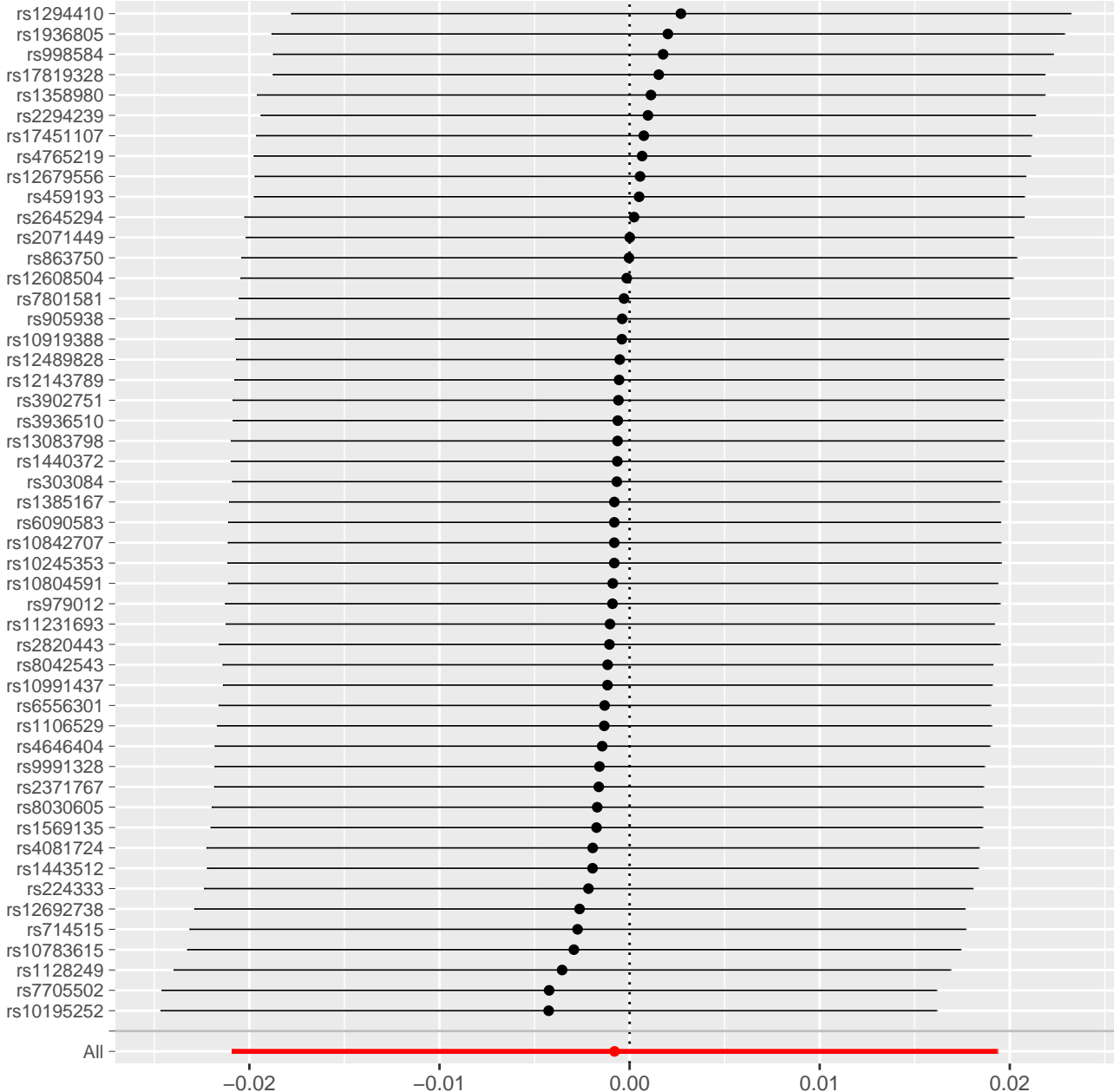'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−stearoylglycerophosphocholine* || id:689'

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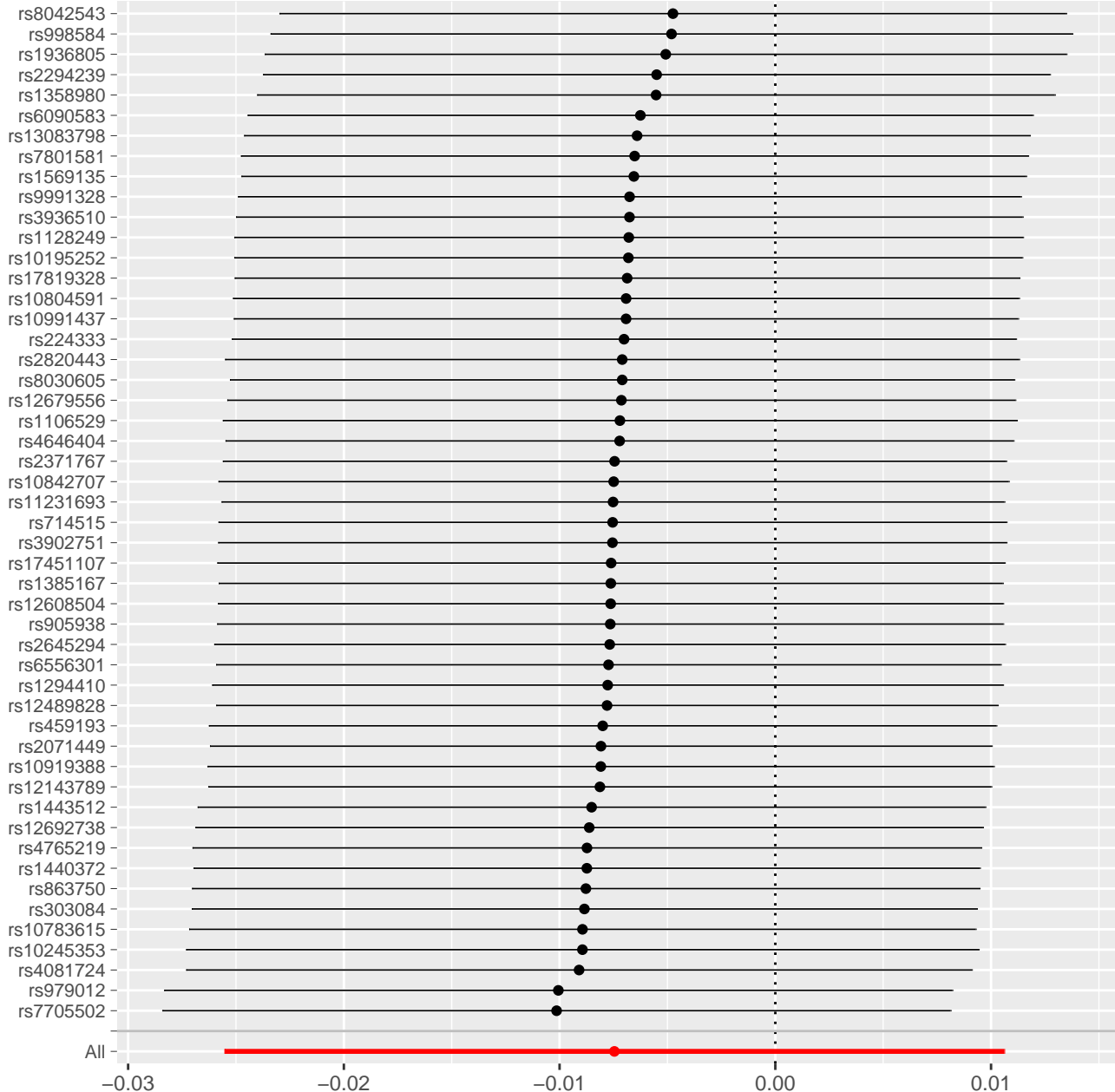'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−linoleoylglycerophosphocholine* || id:690'

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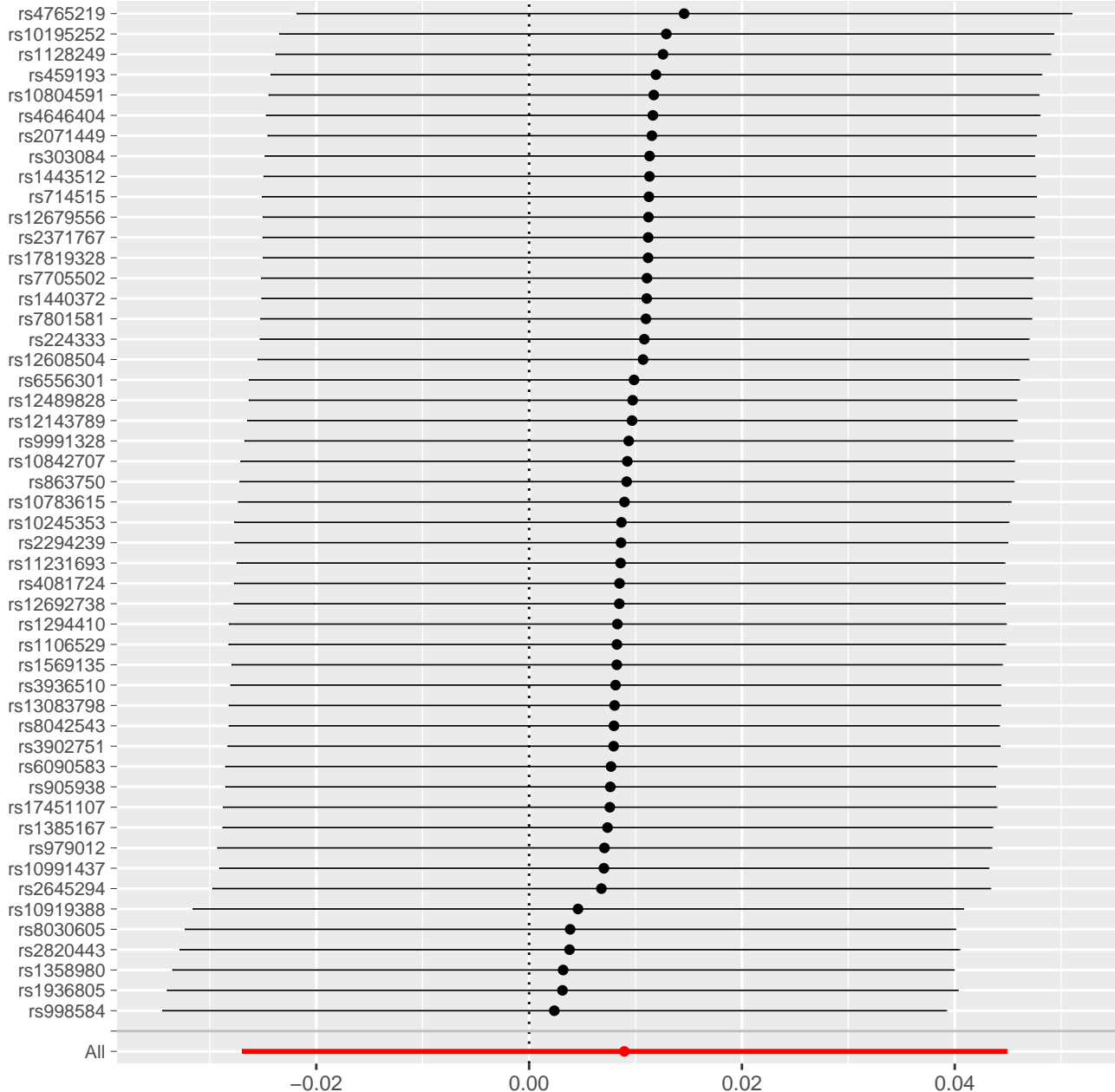'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13496 || id:691'

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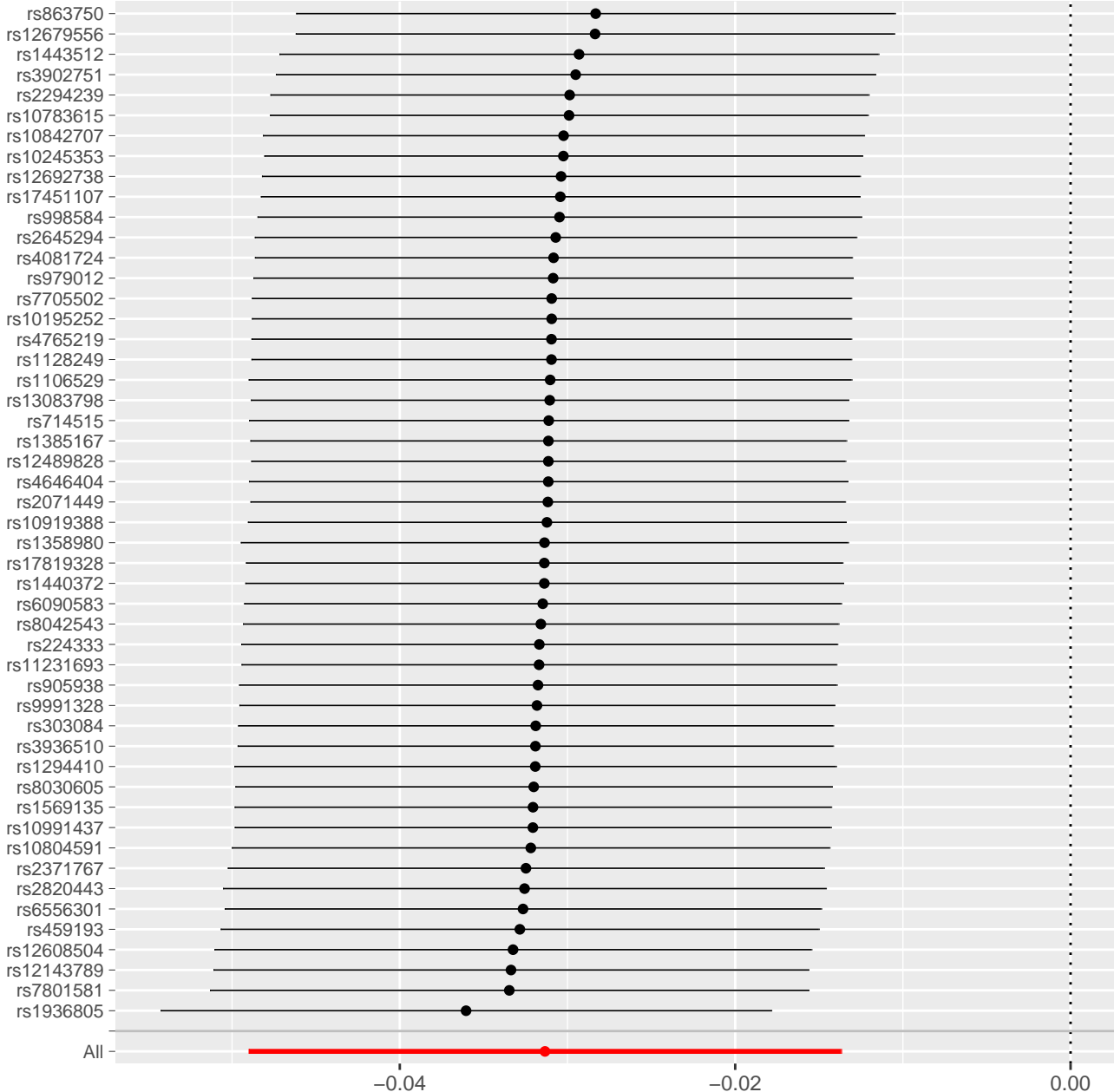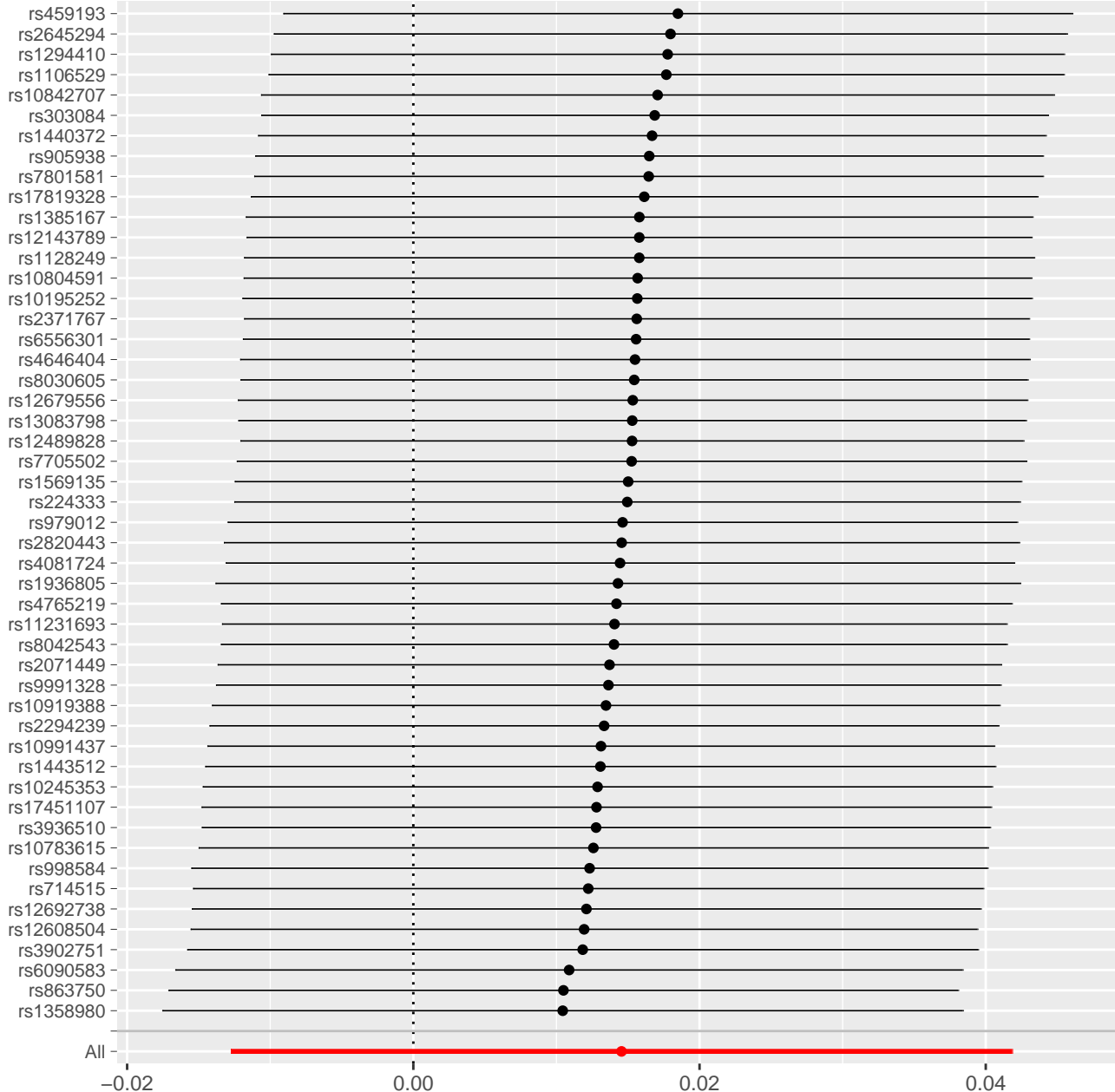
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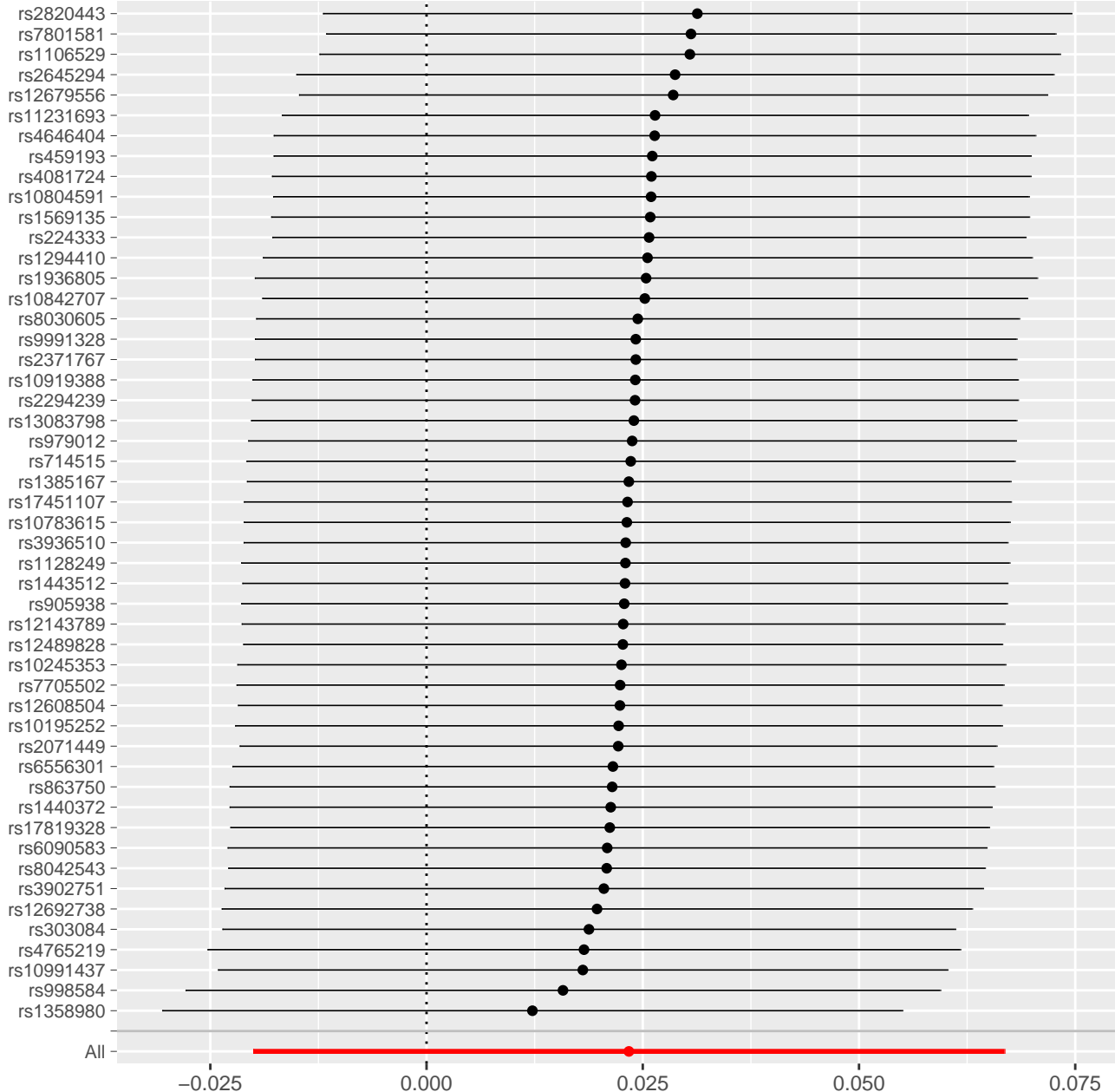'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13548 || id:693'

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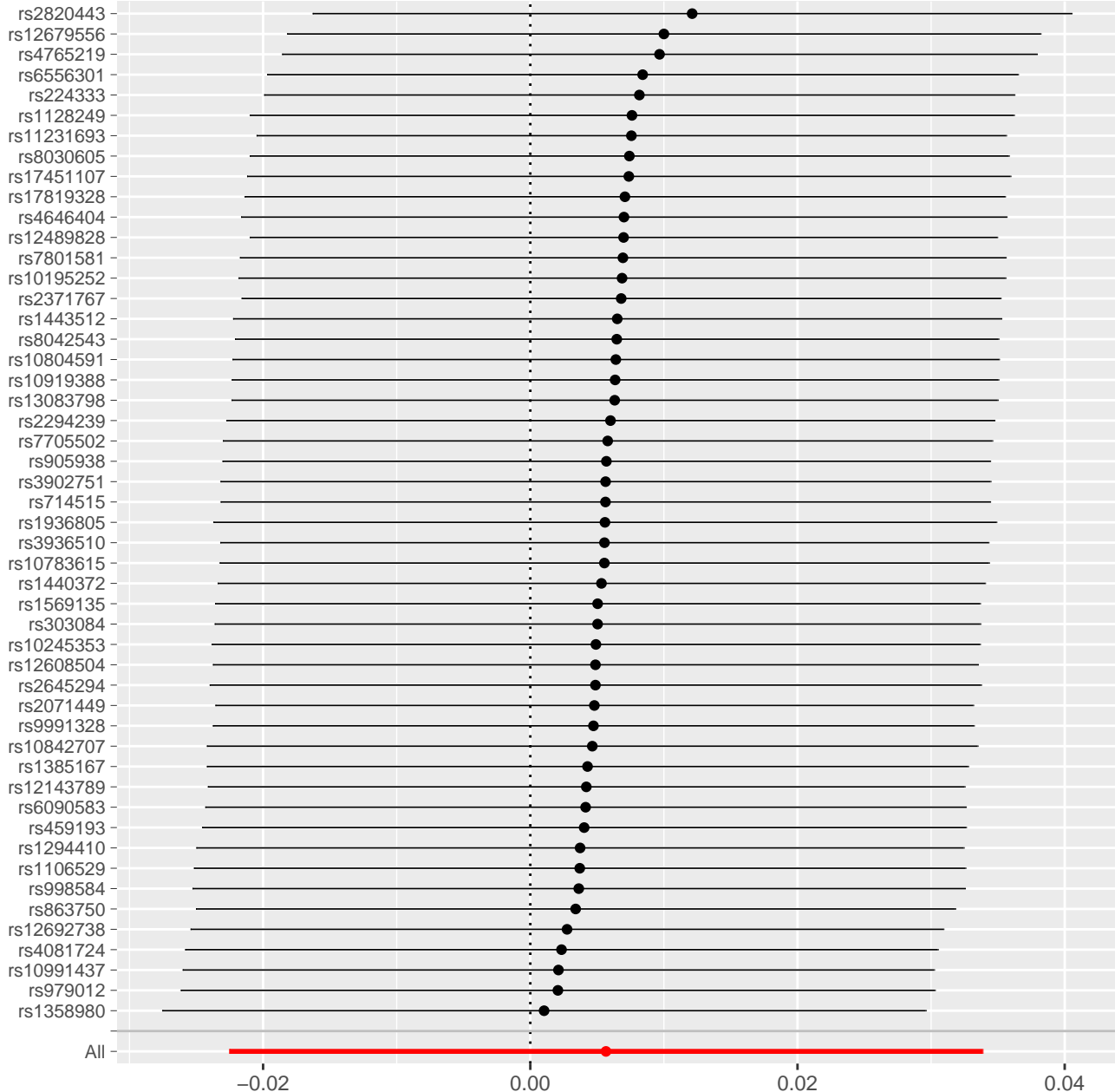'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13549 || id:694'

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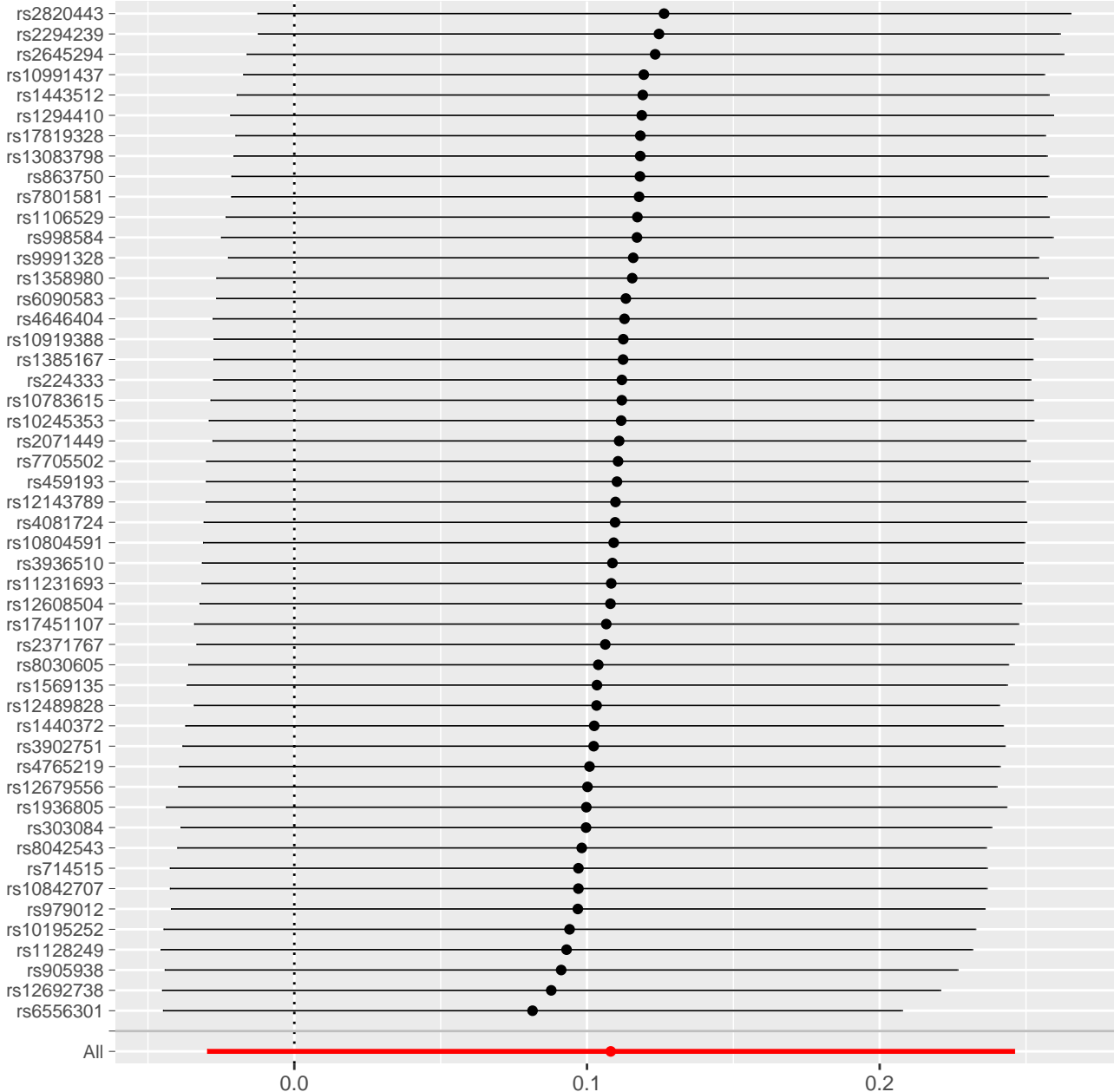'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13553 || id:695'

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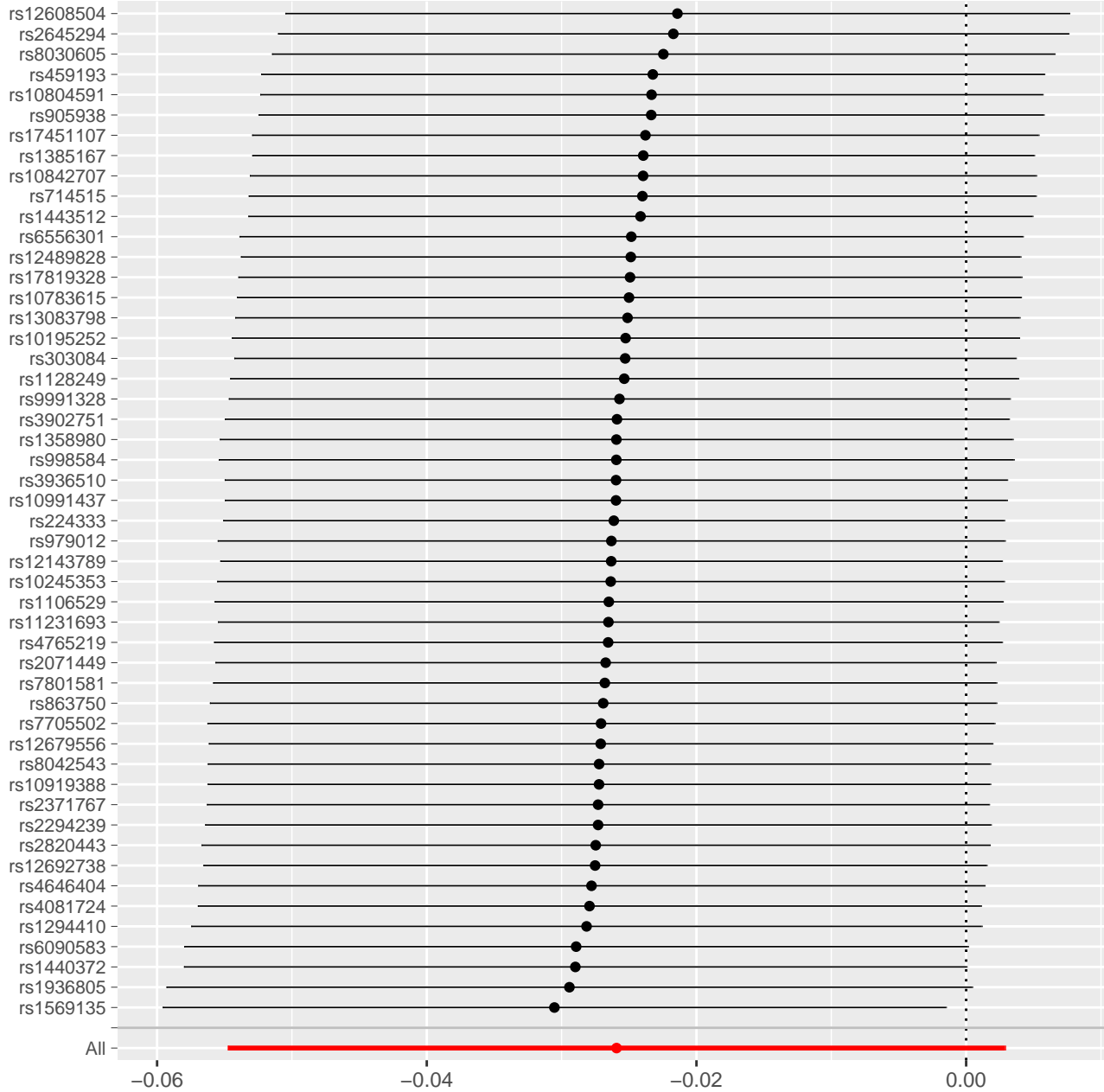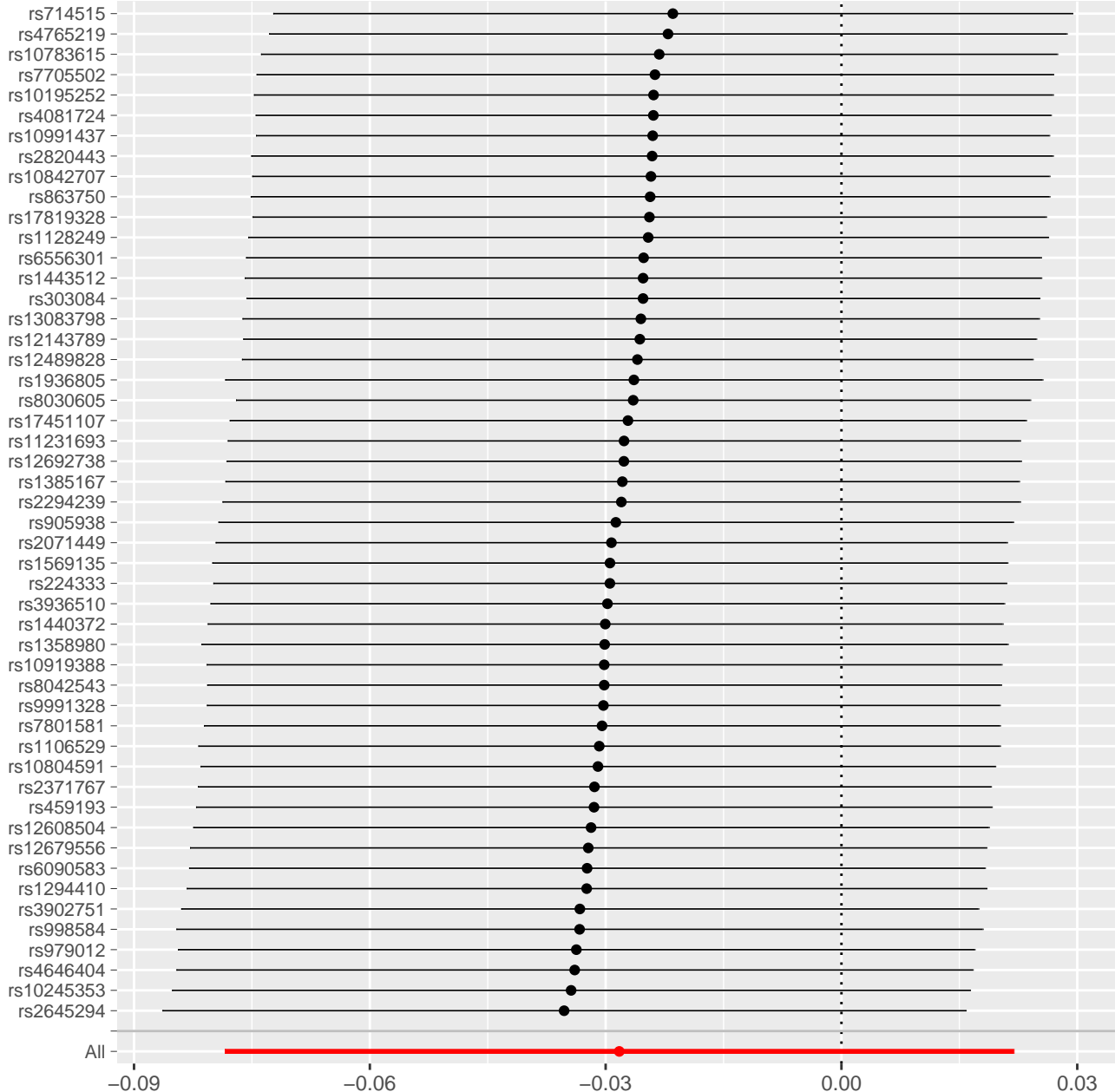
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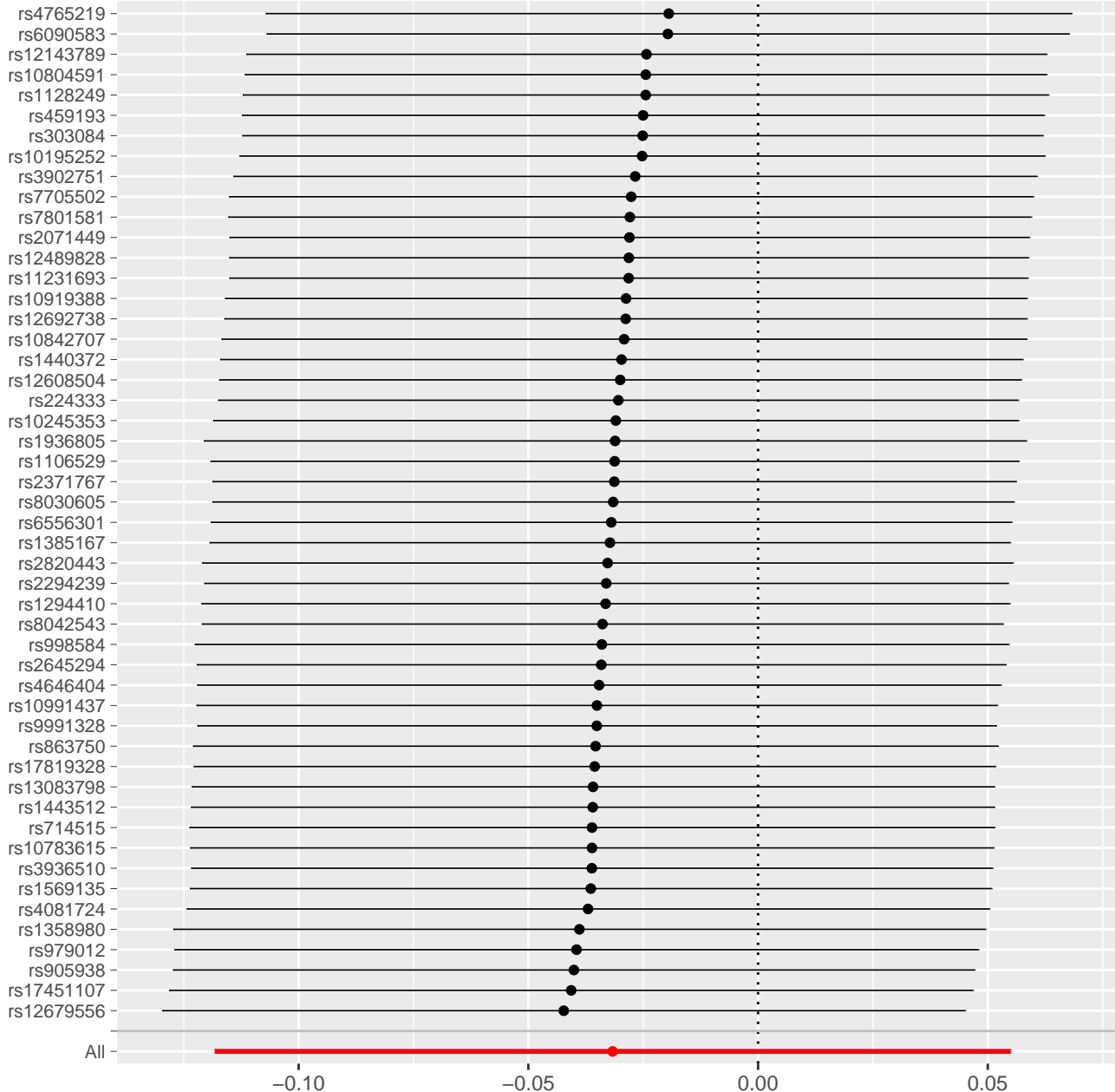'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−13658 || id:700'

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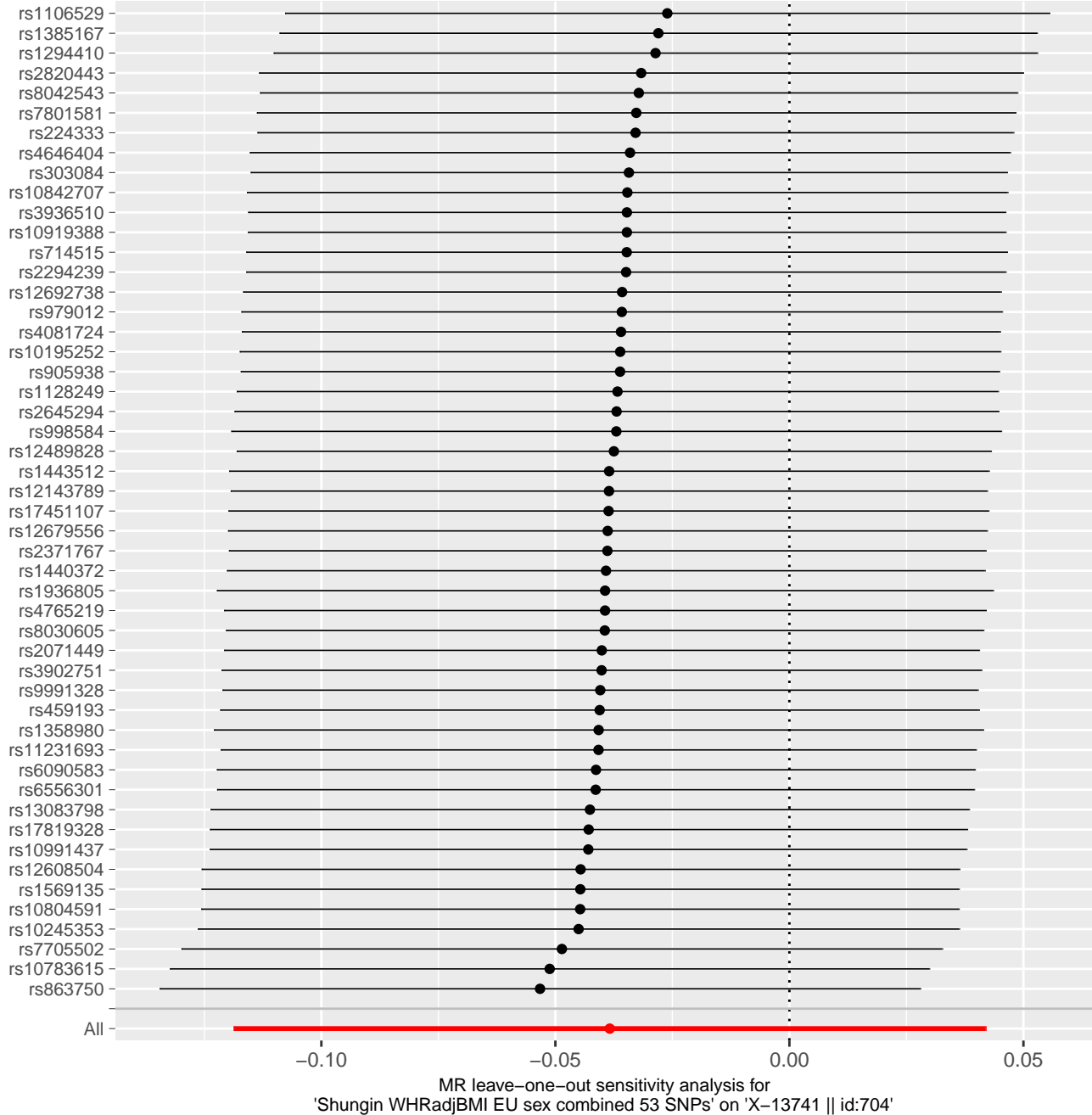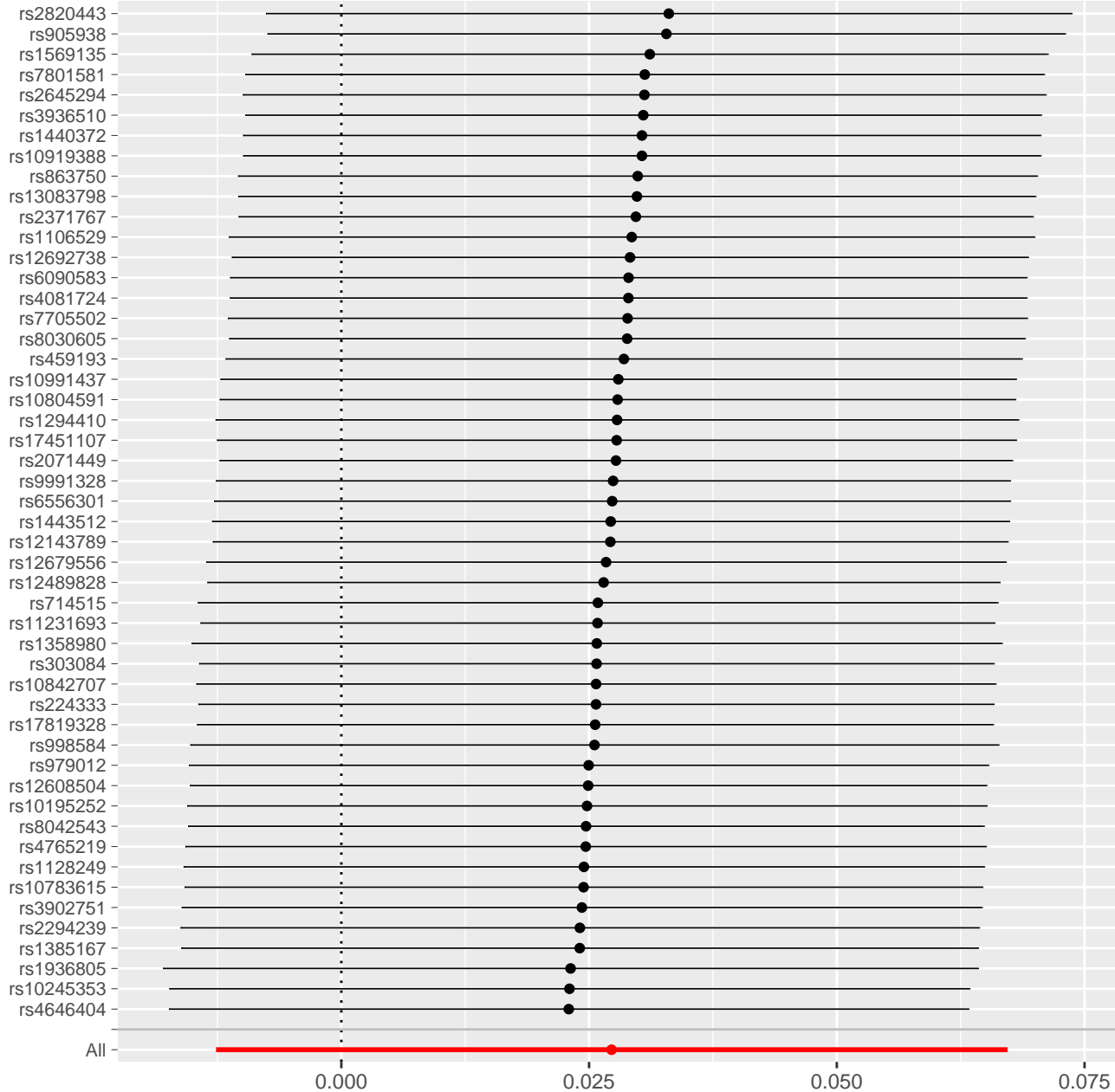
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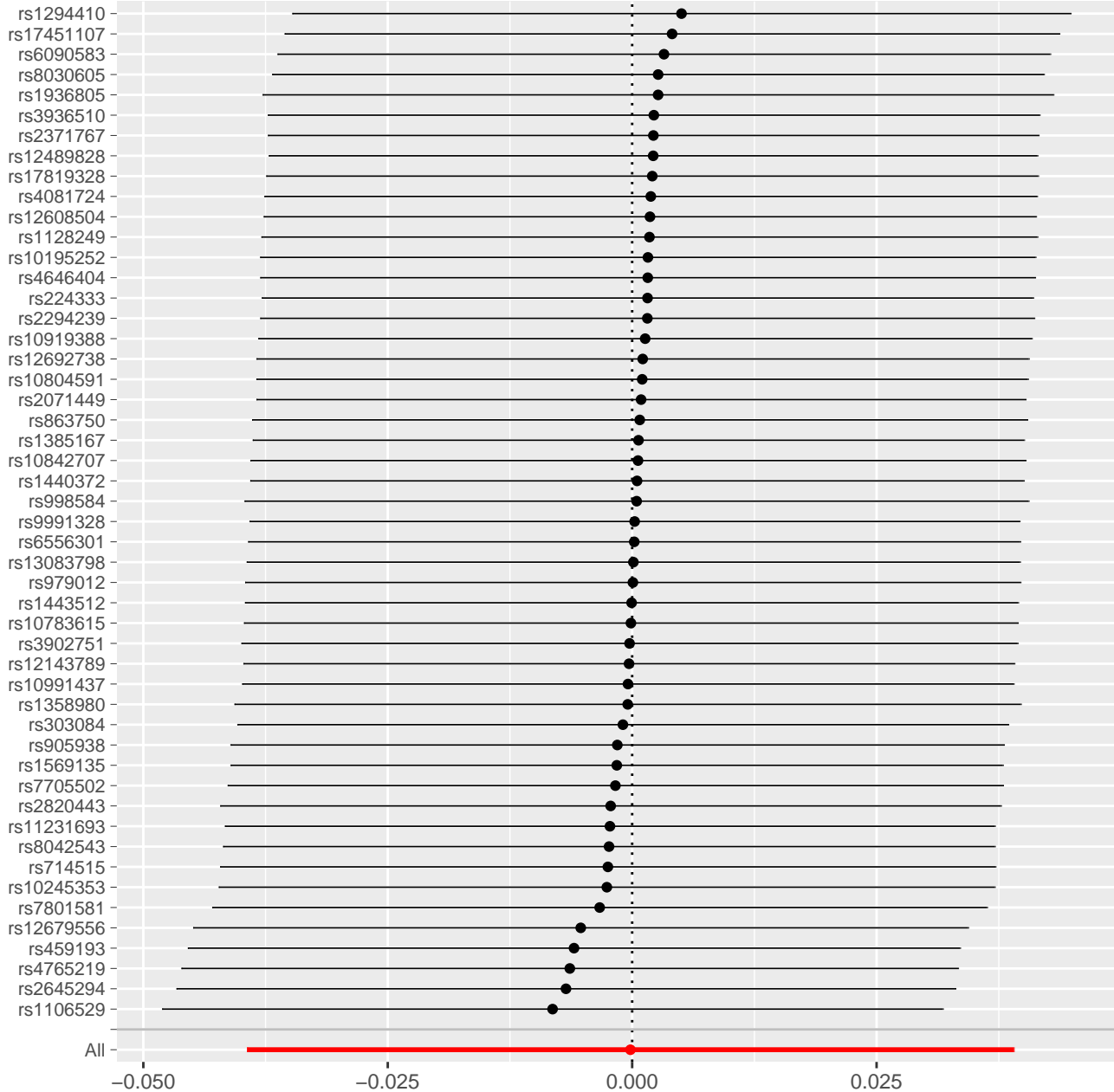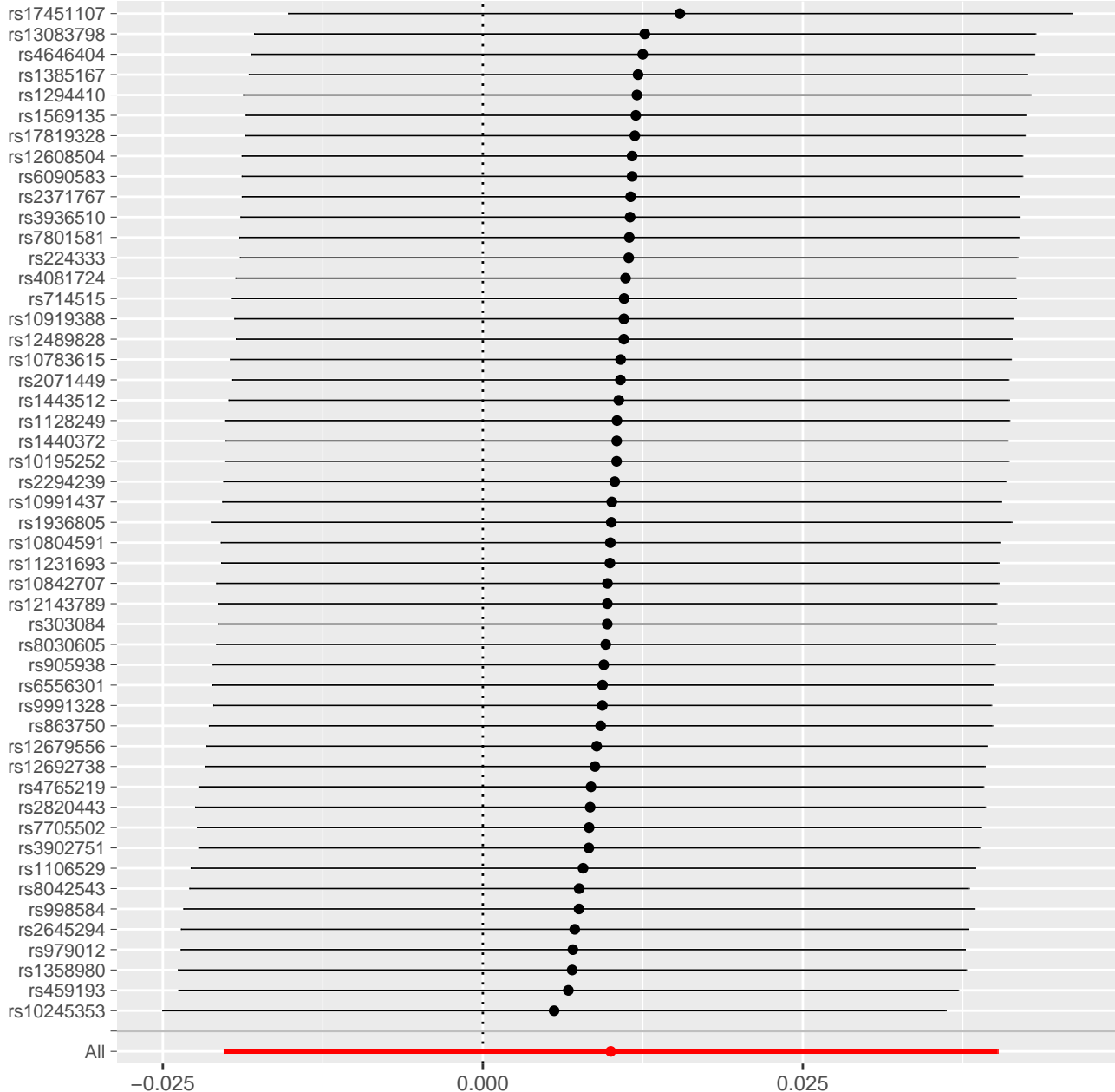'Shungin WHRadjBMI EU sex combined 53 SNPs' on '2−tetradecenoyl carnitine || id:702'

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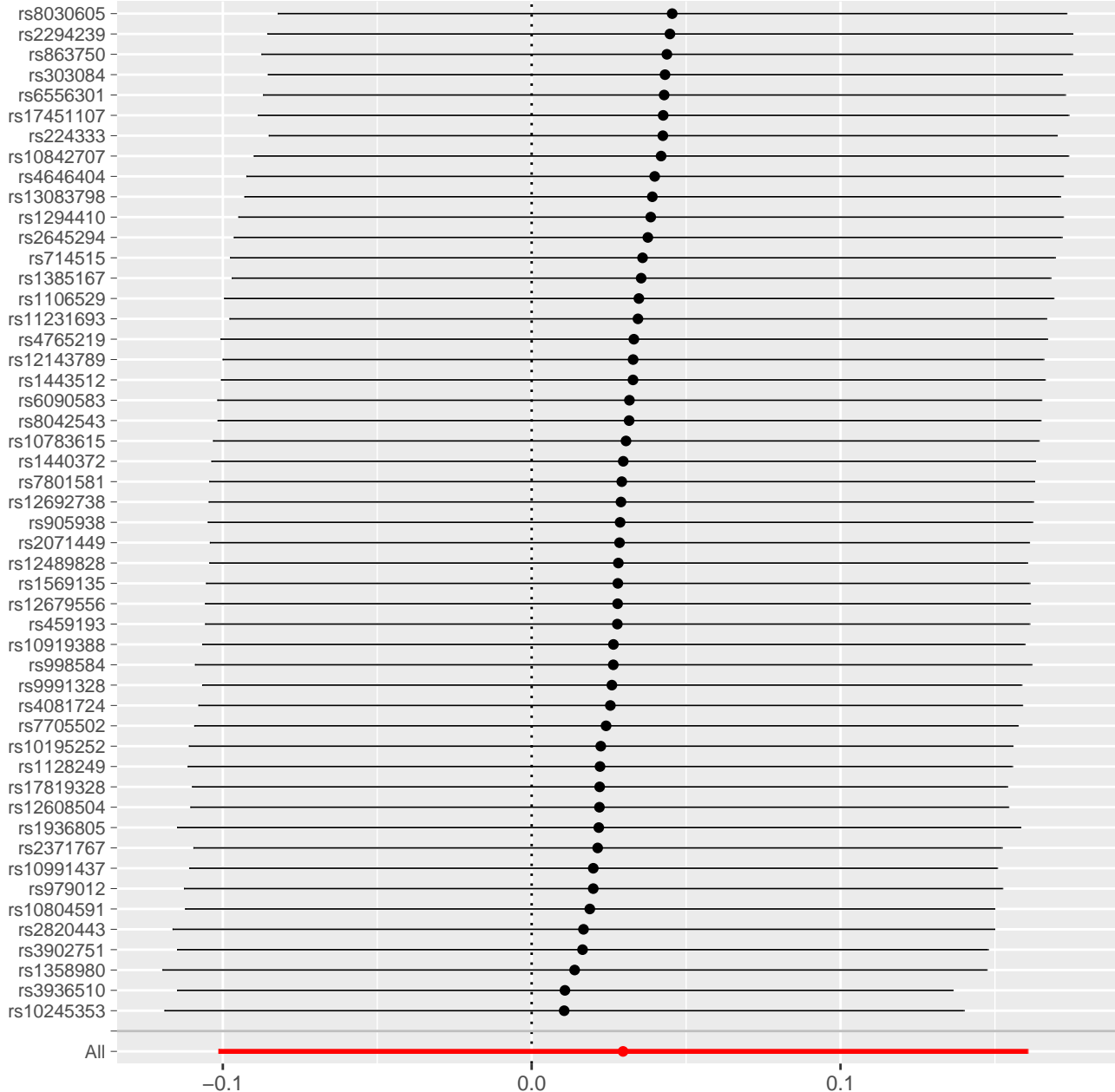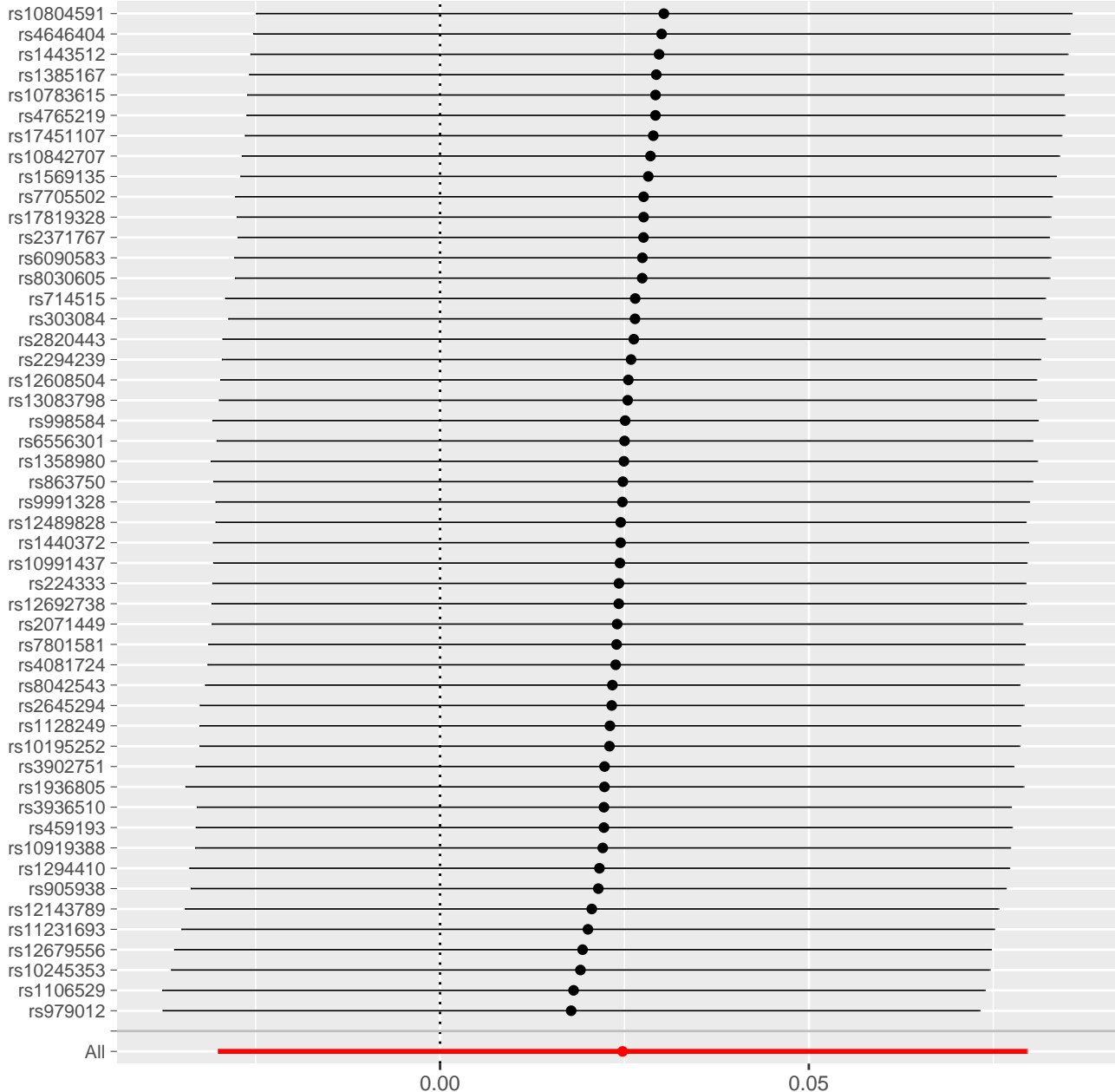'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−myristoylglycerophosphocholine || id:705'

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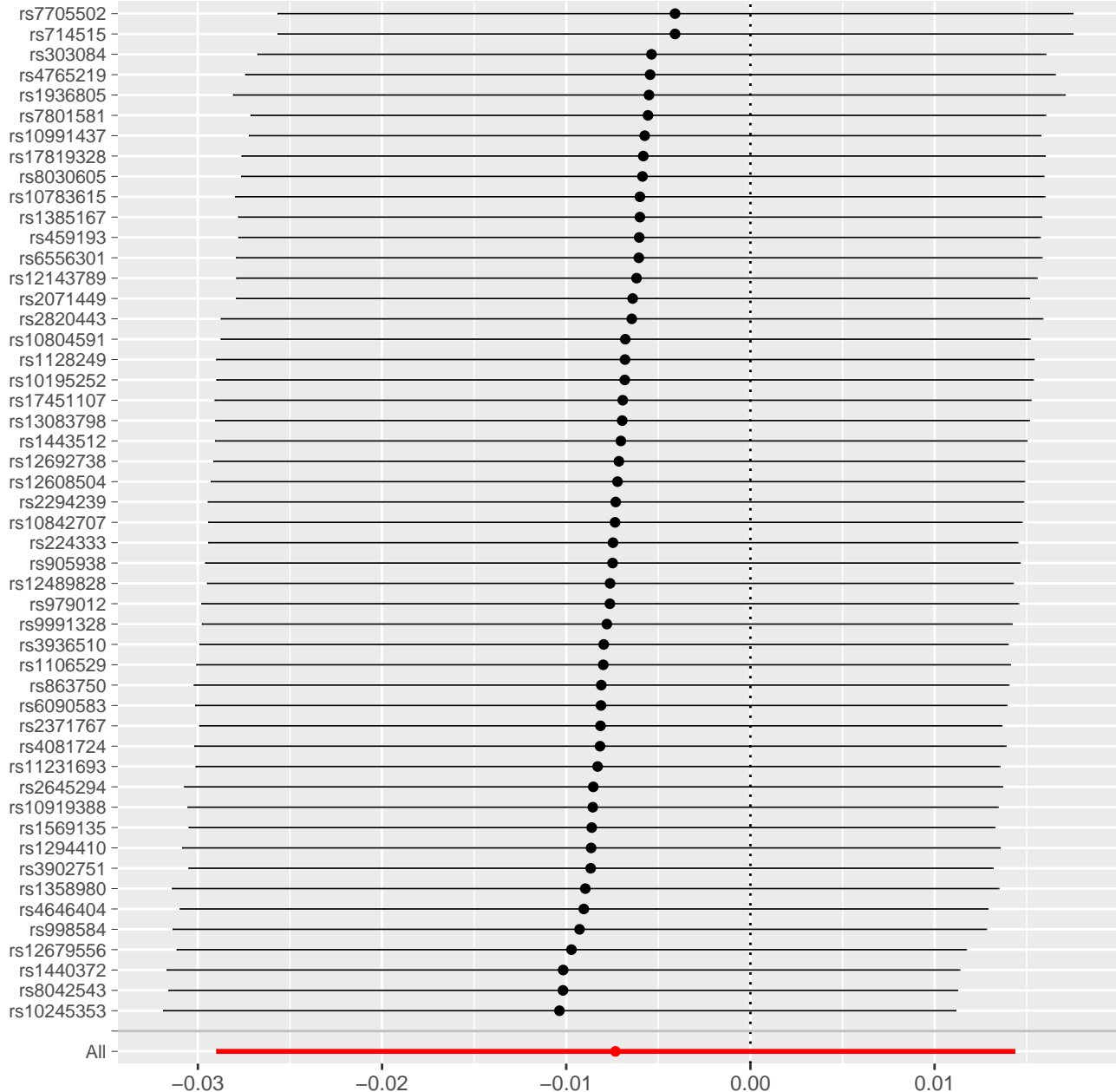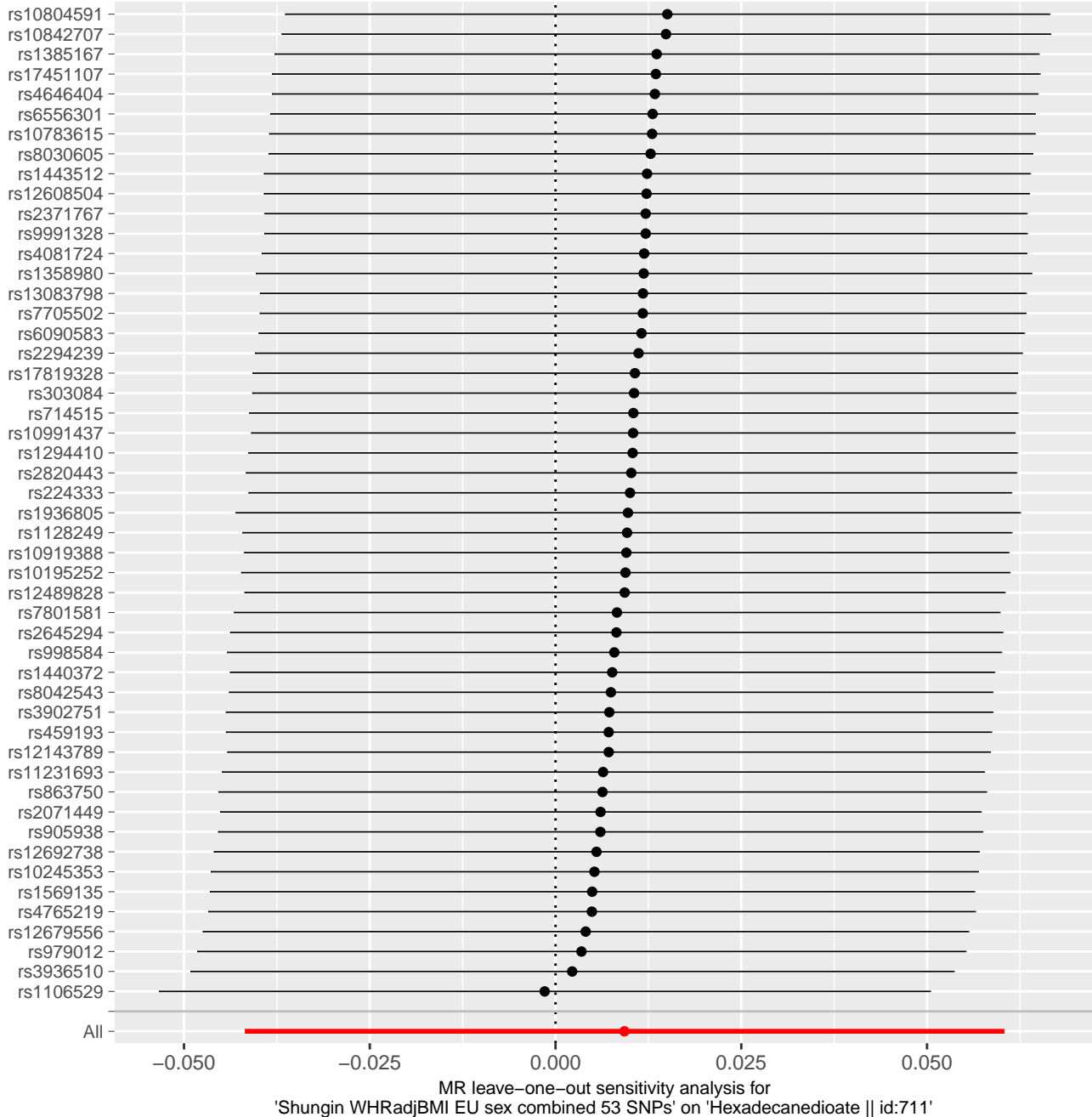'Shungin WHRadjBMI EU sex combined 53 SNPs' on '1−palmitoylglycerophosphoethanolamine || id:707'

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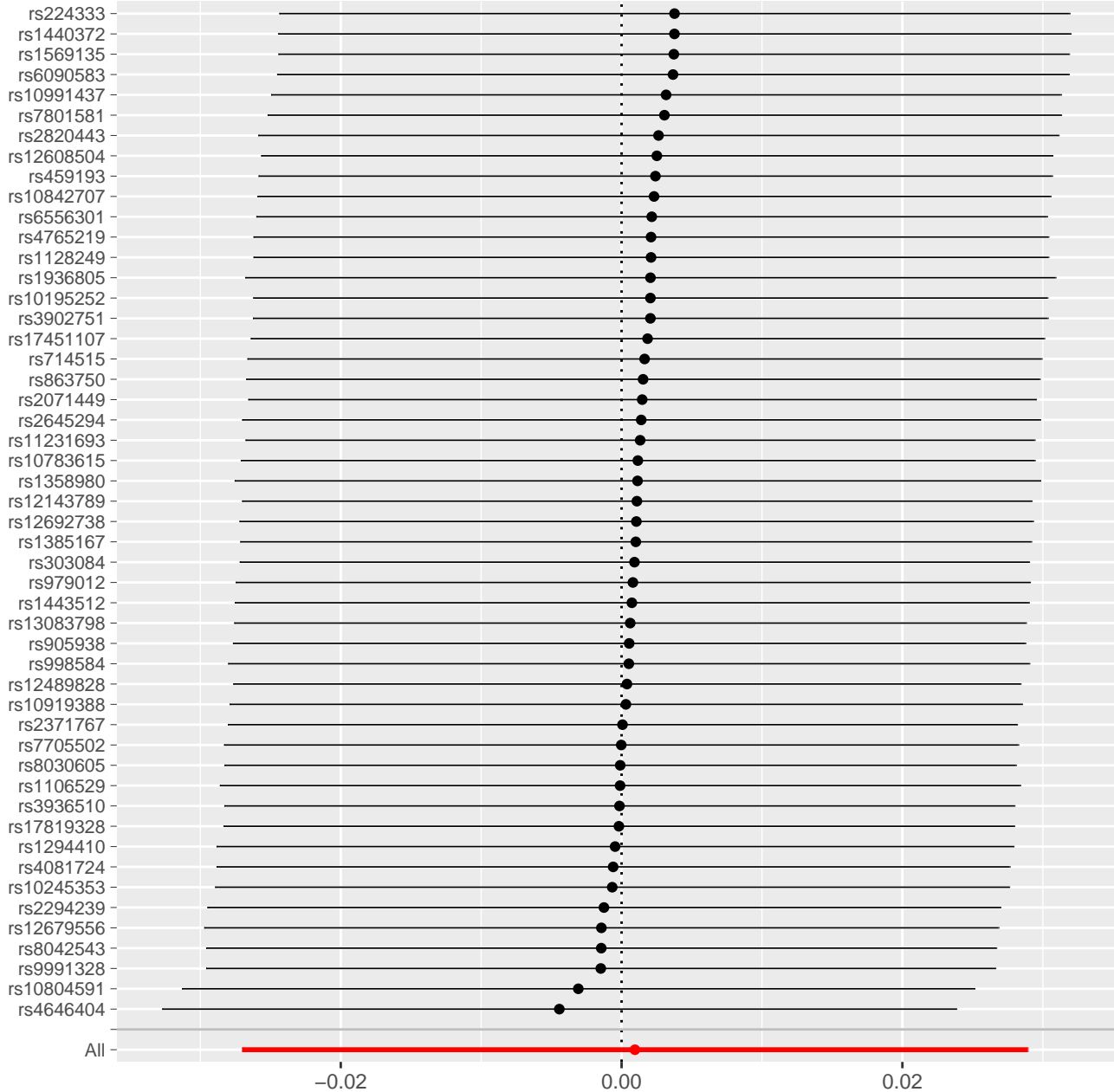
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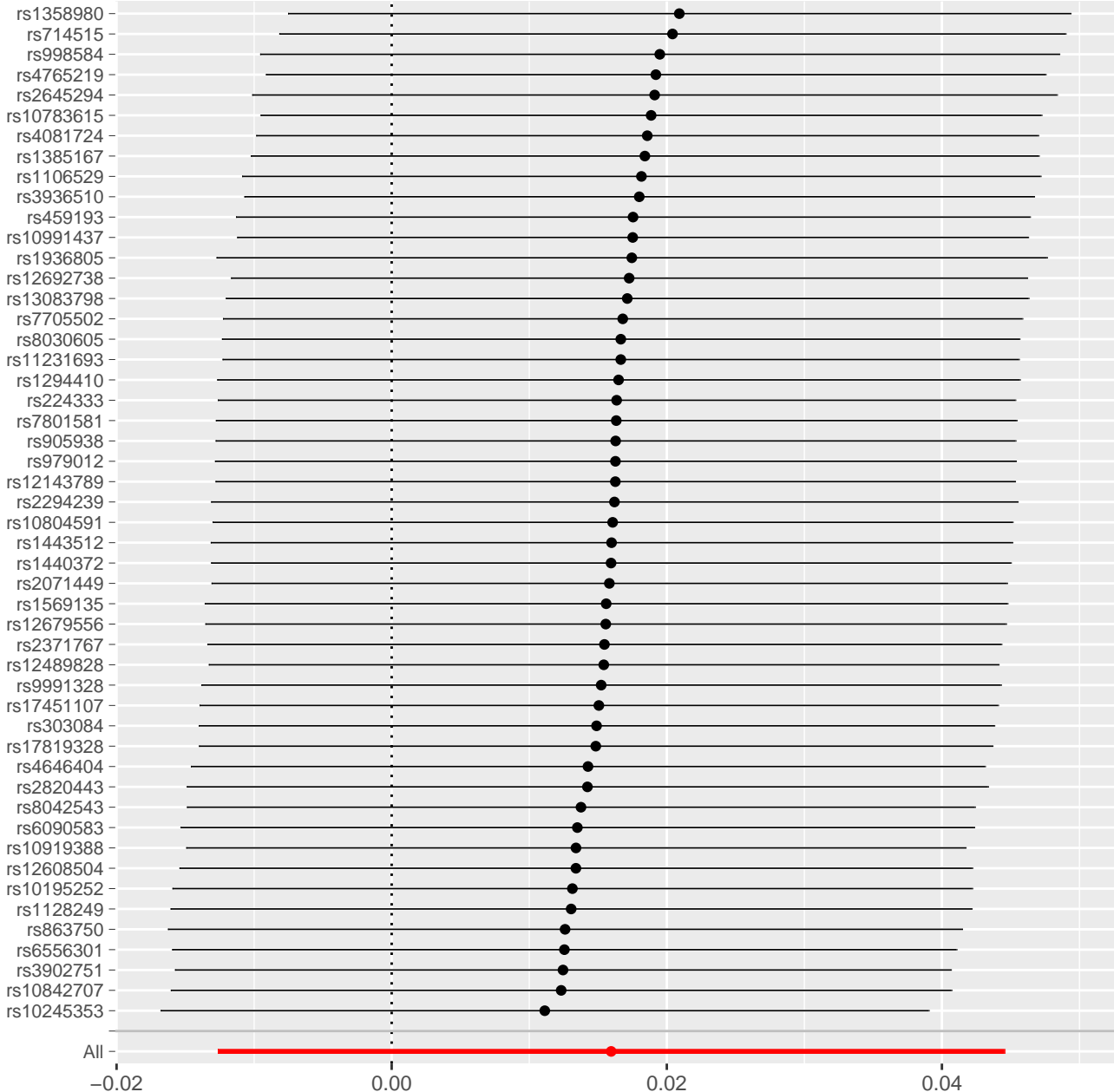
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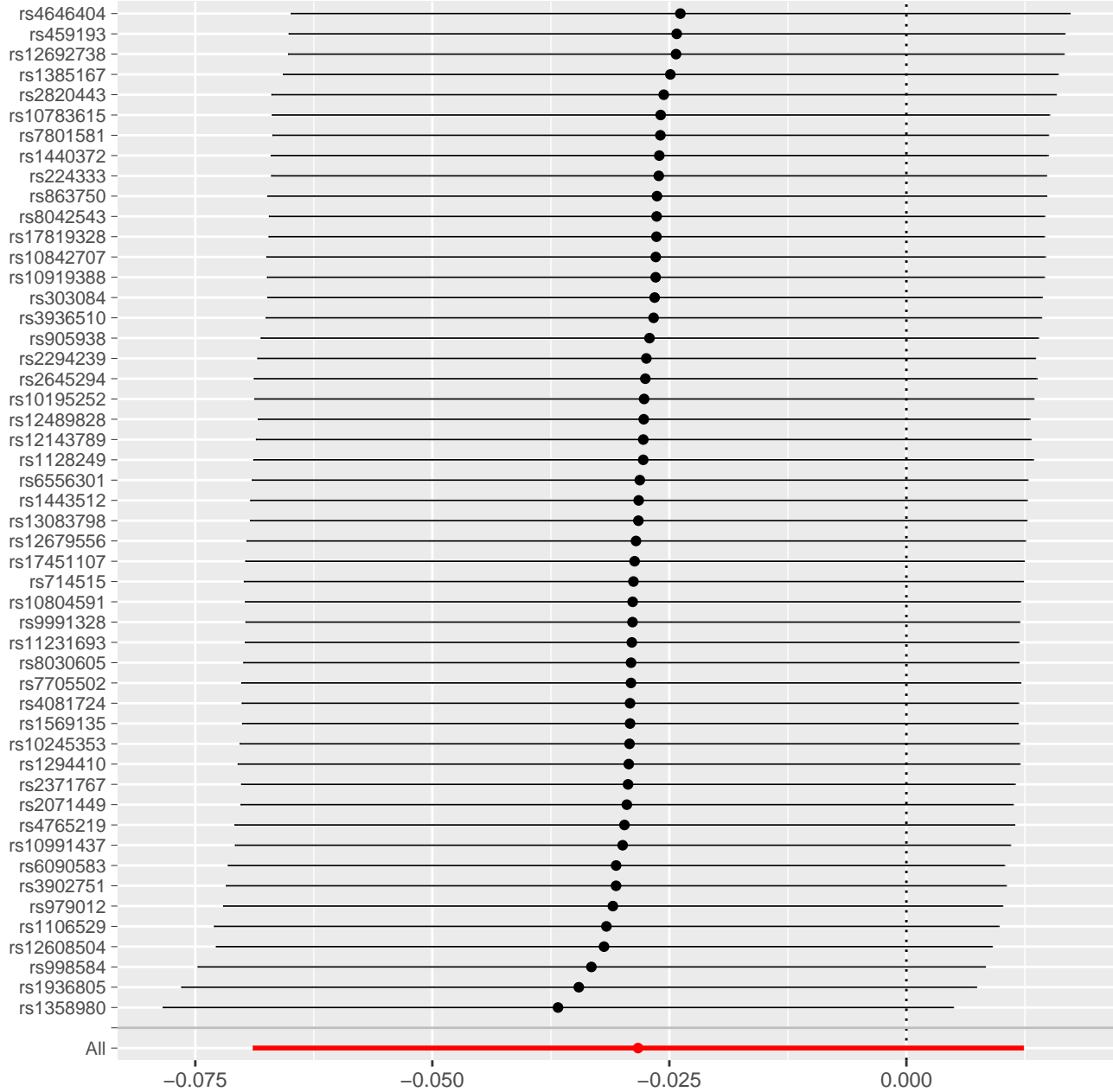'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Hexadecanedioate || id:711'
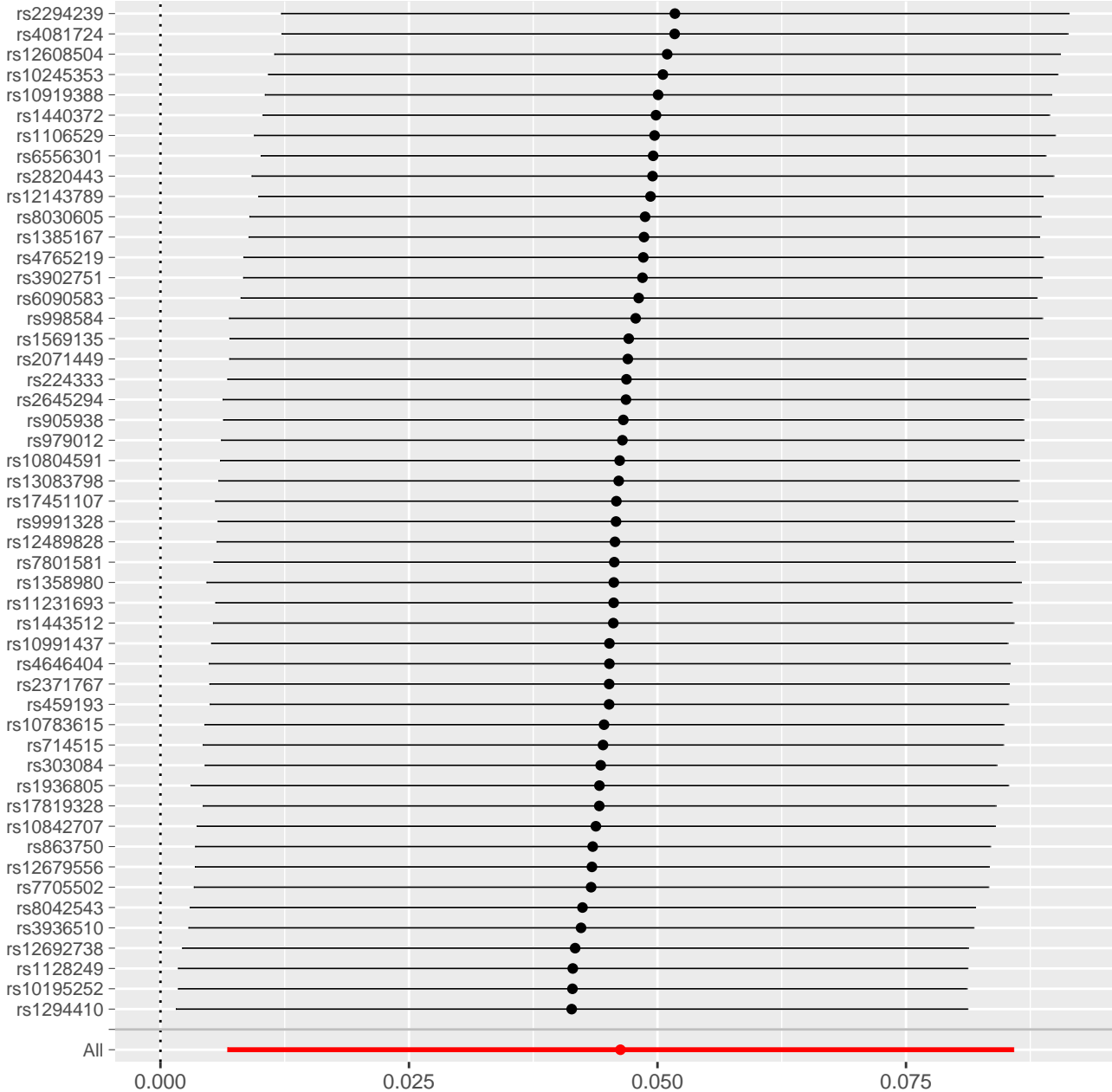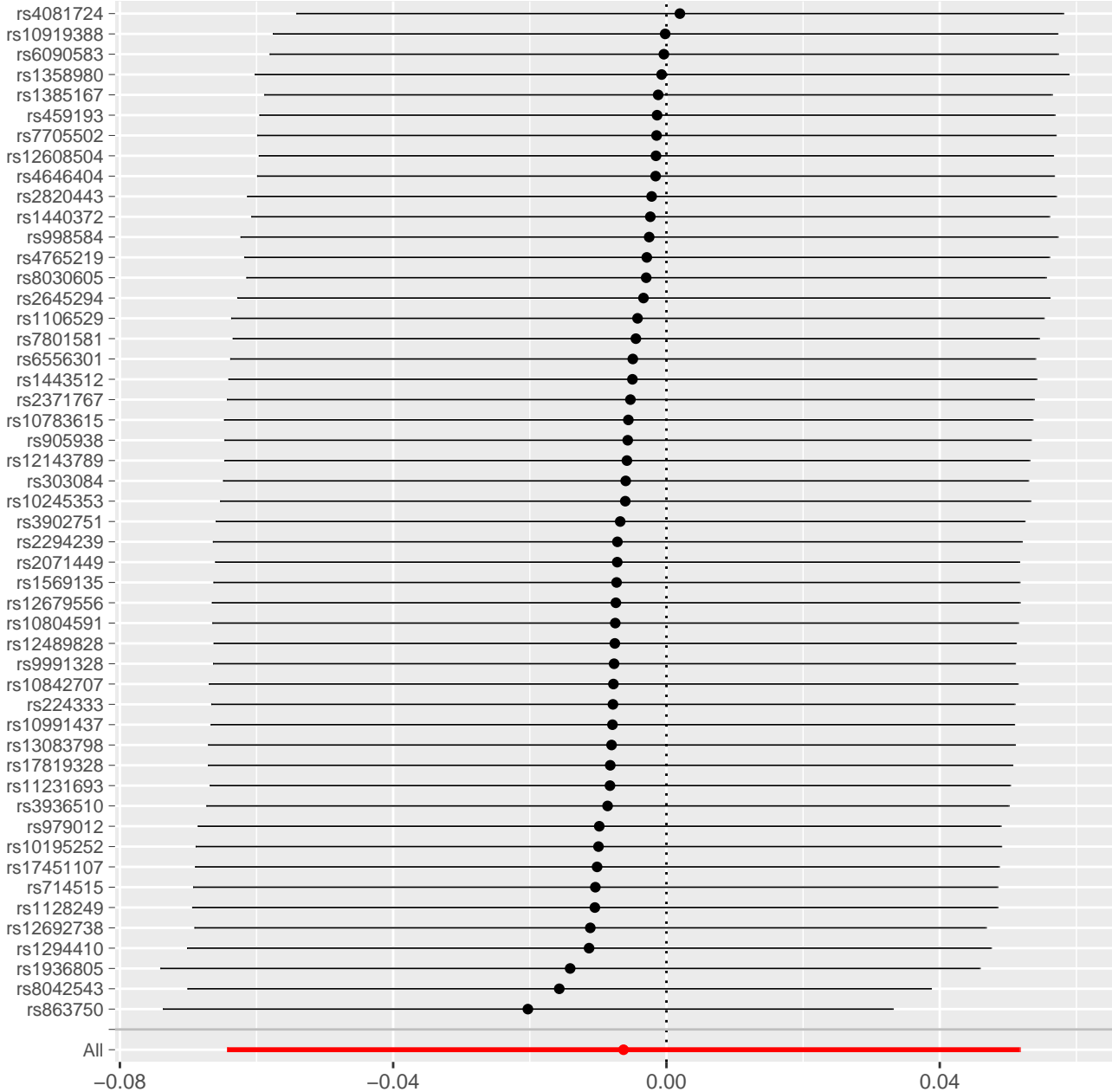
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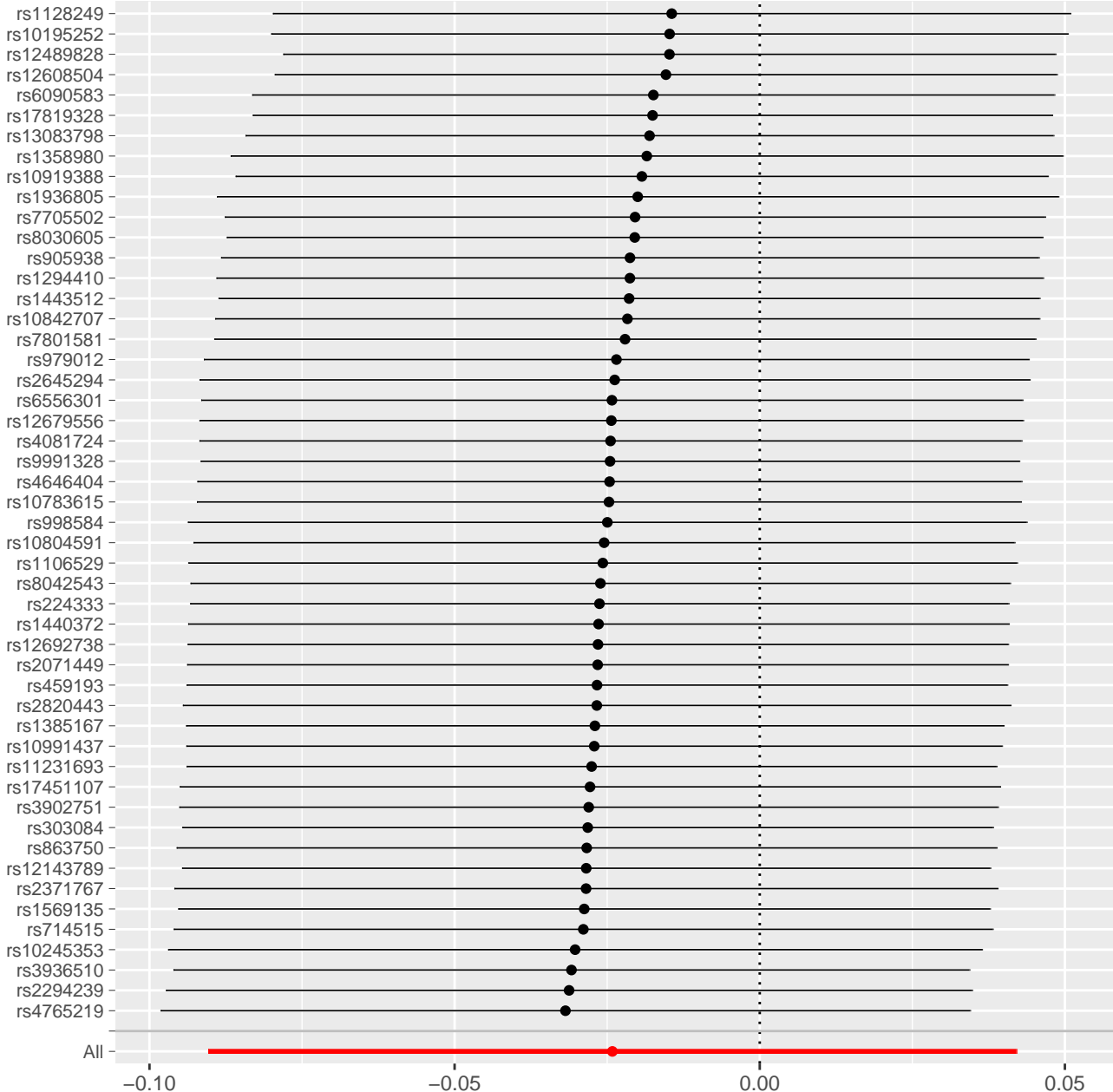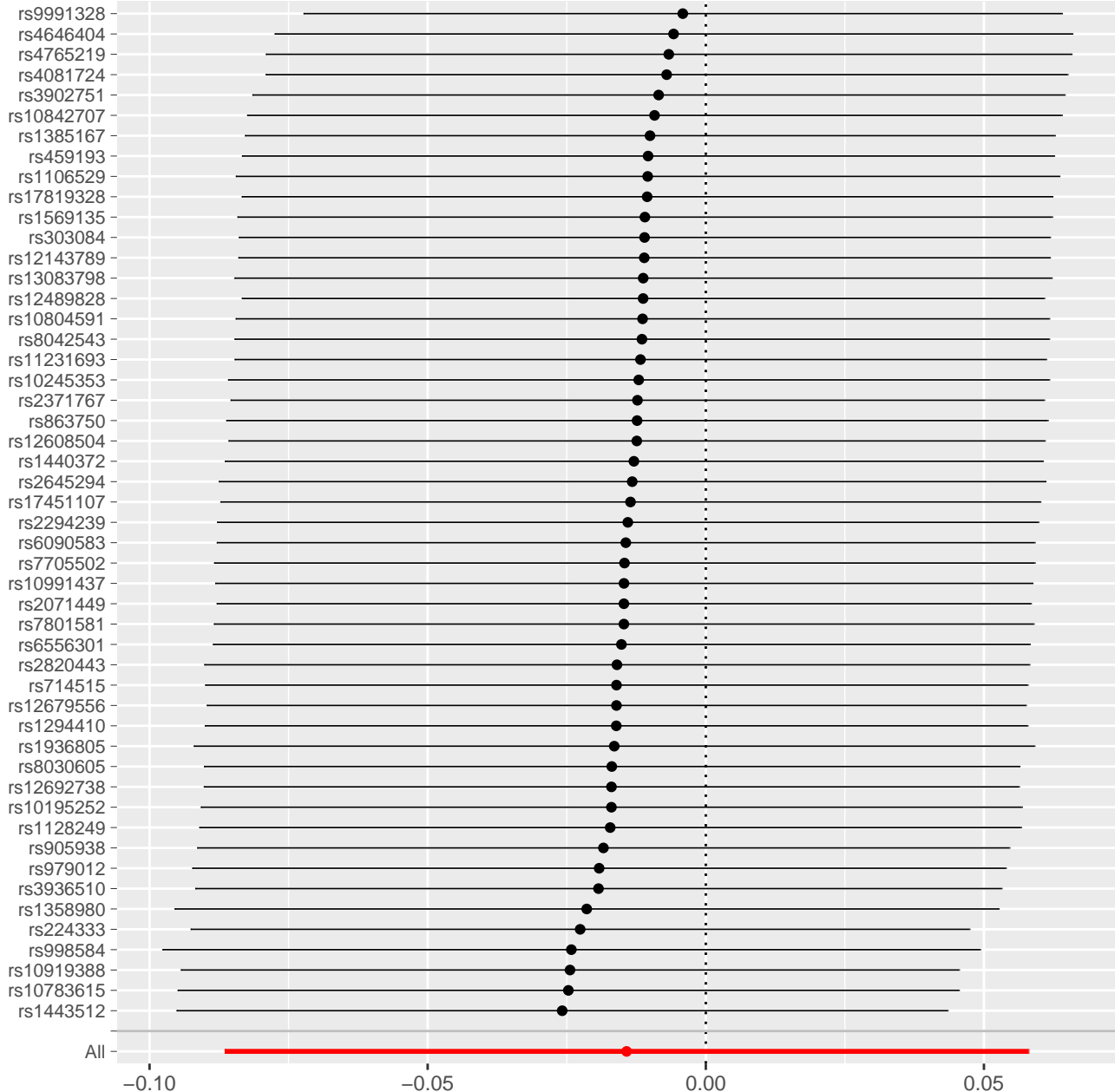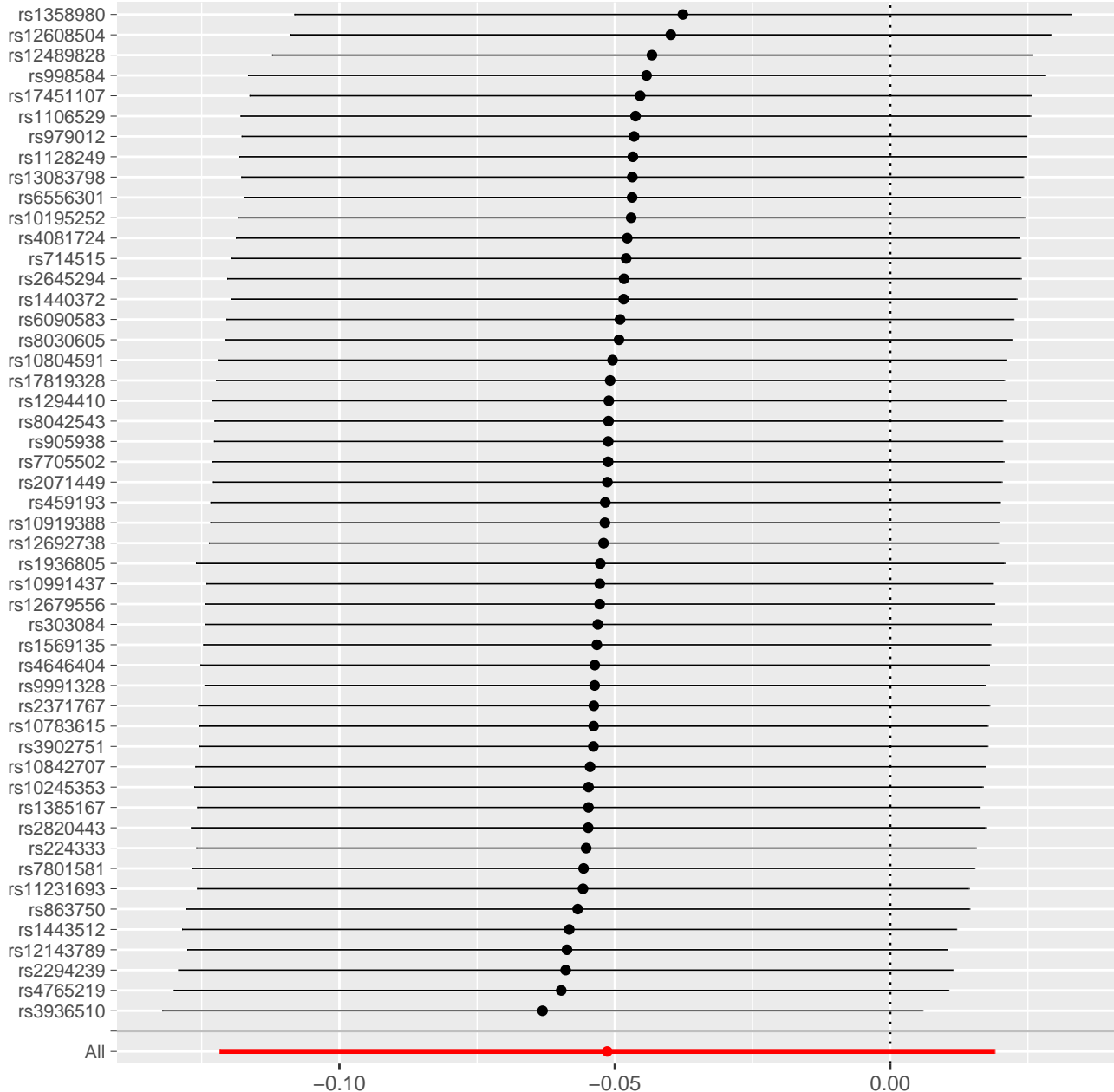
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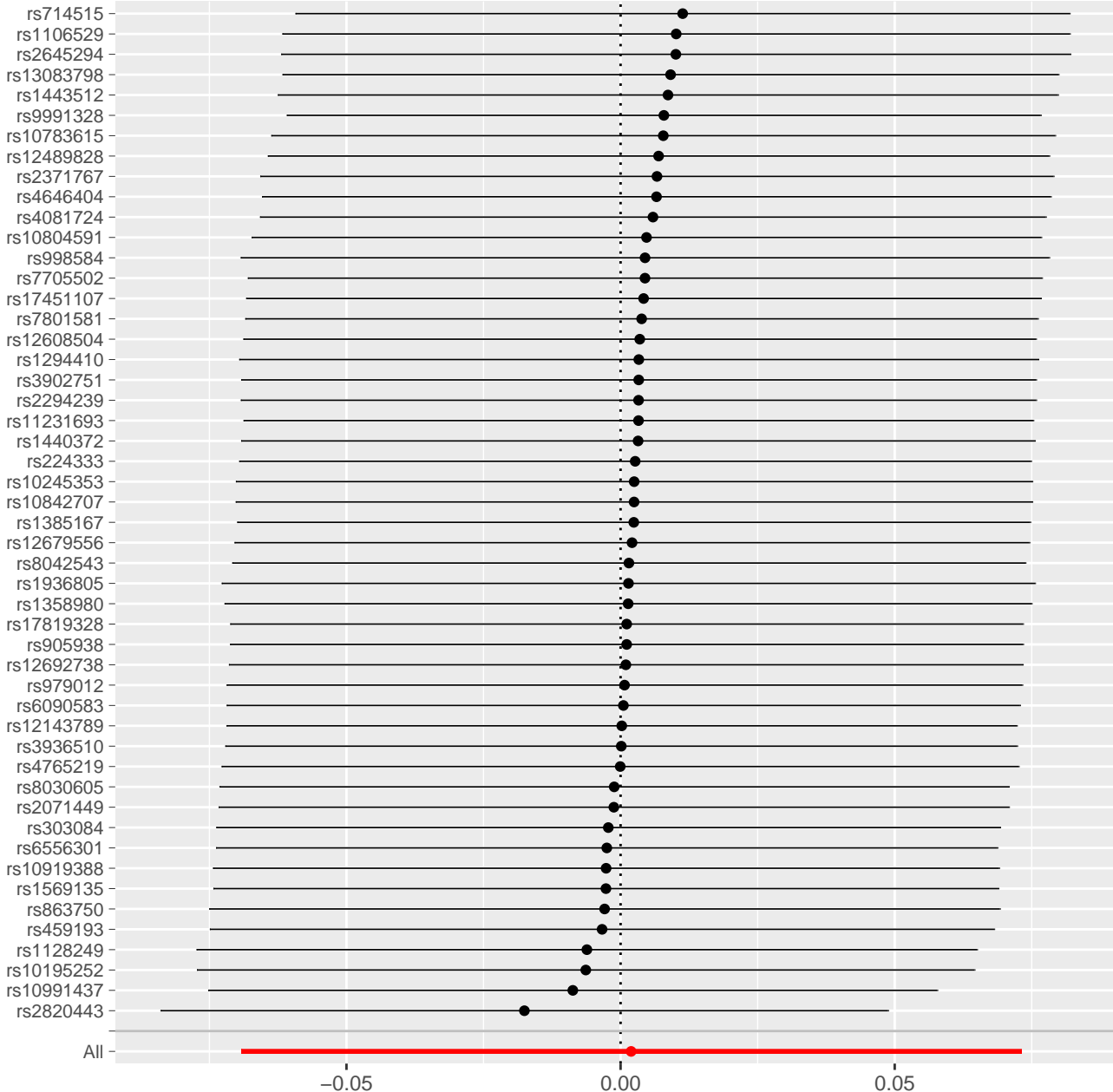'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14086 || id:717'
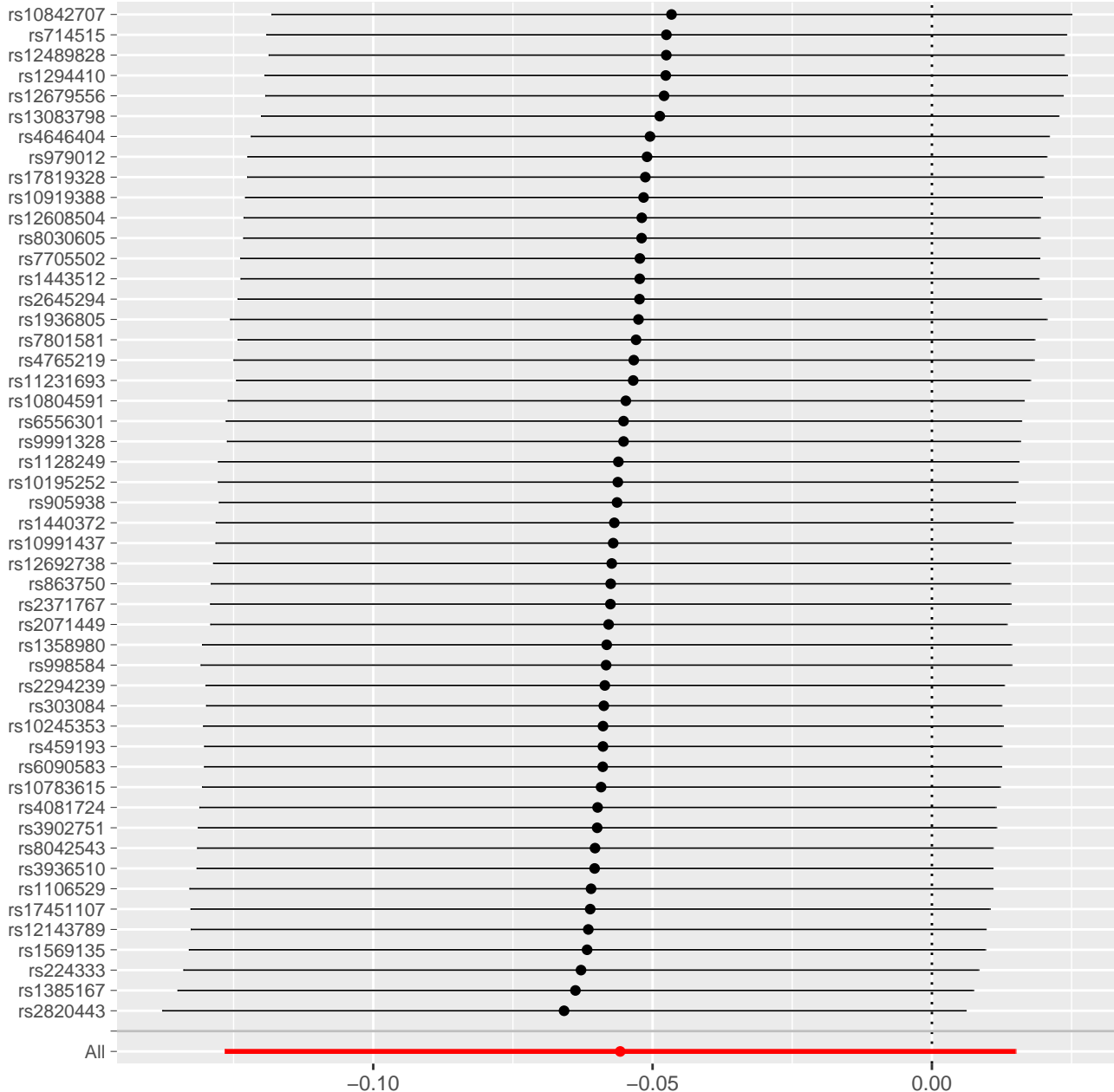
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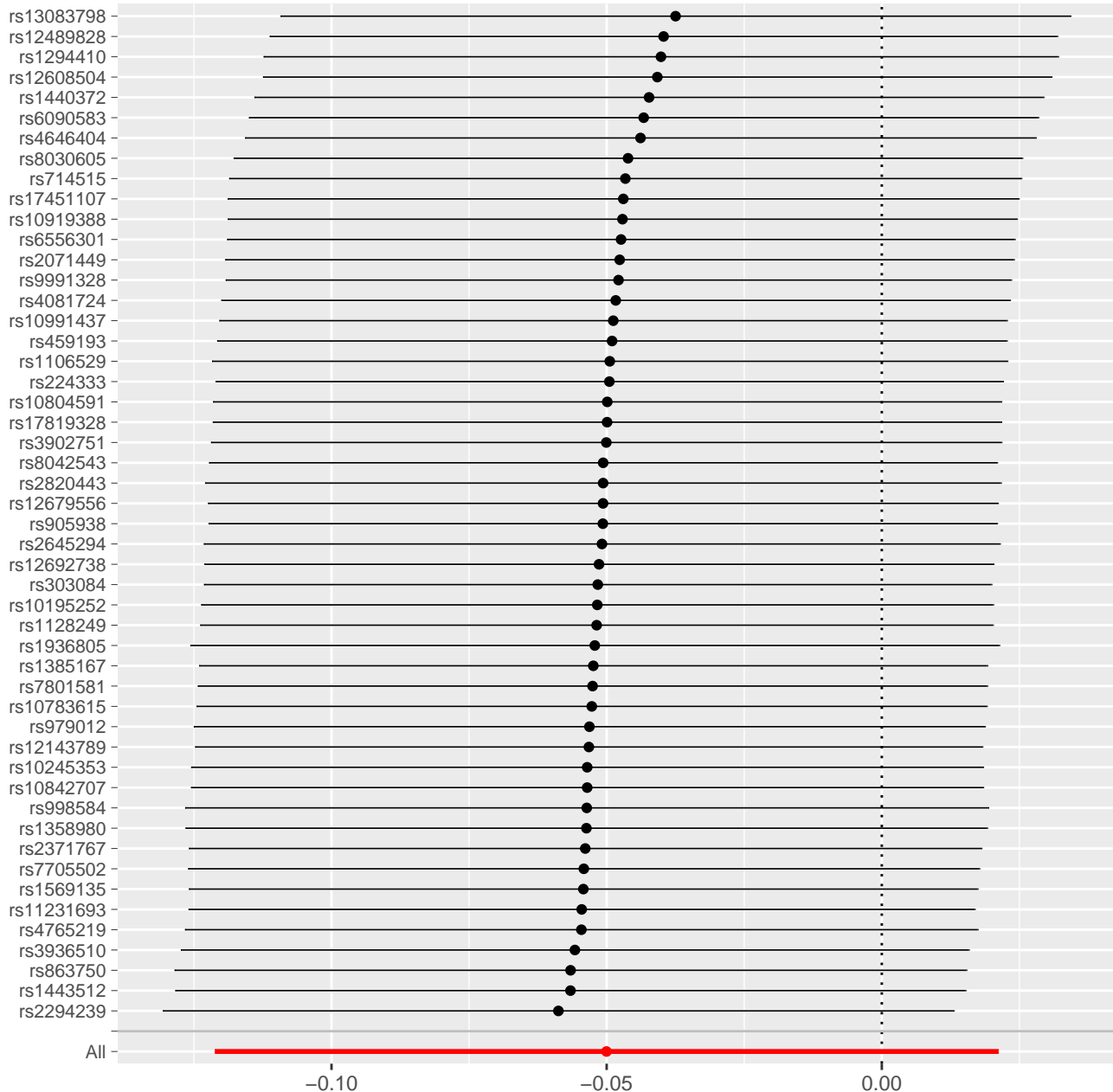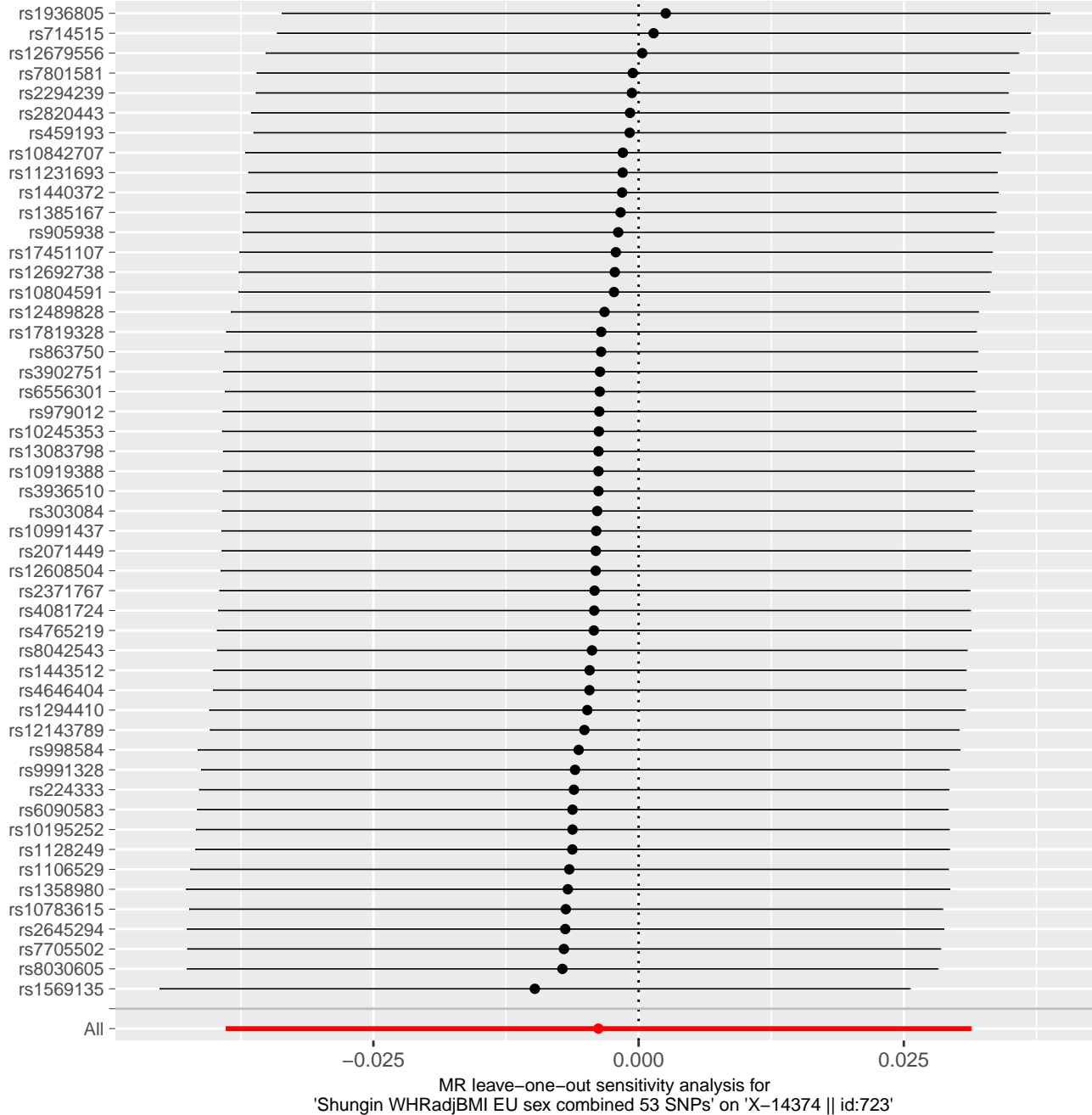
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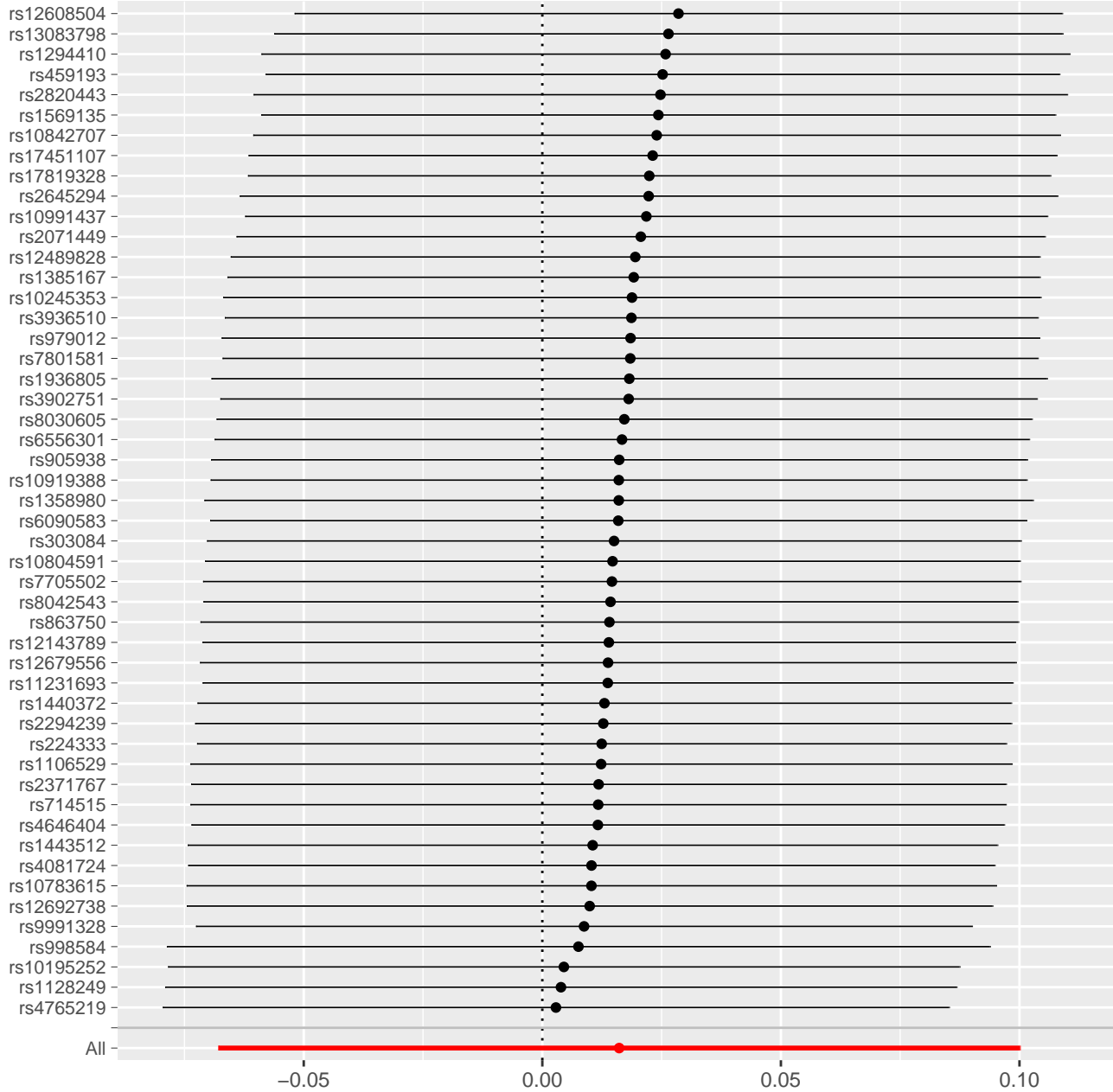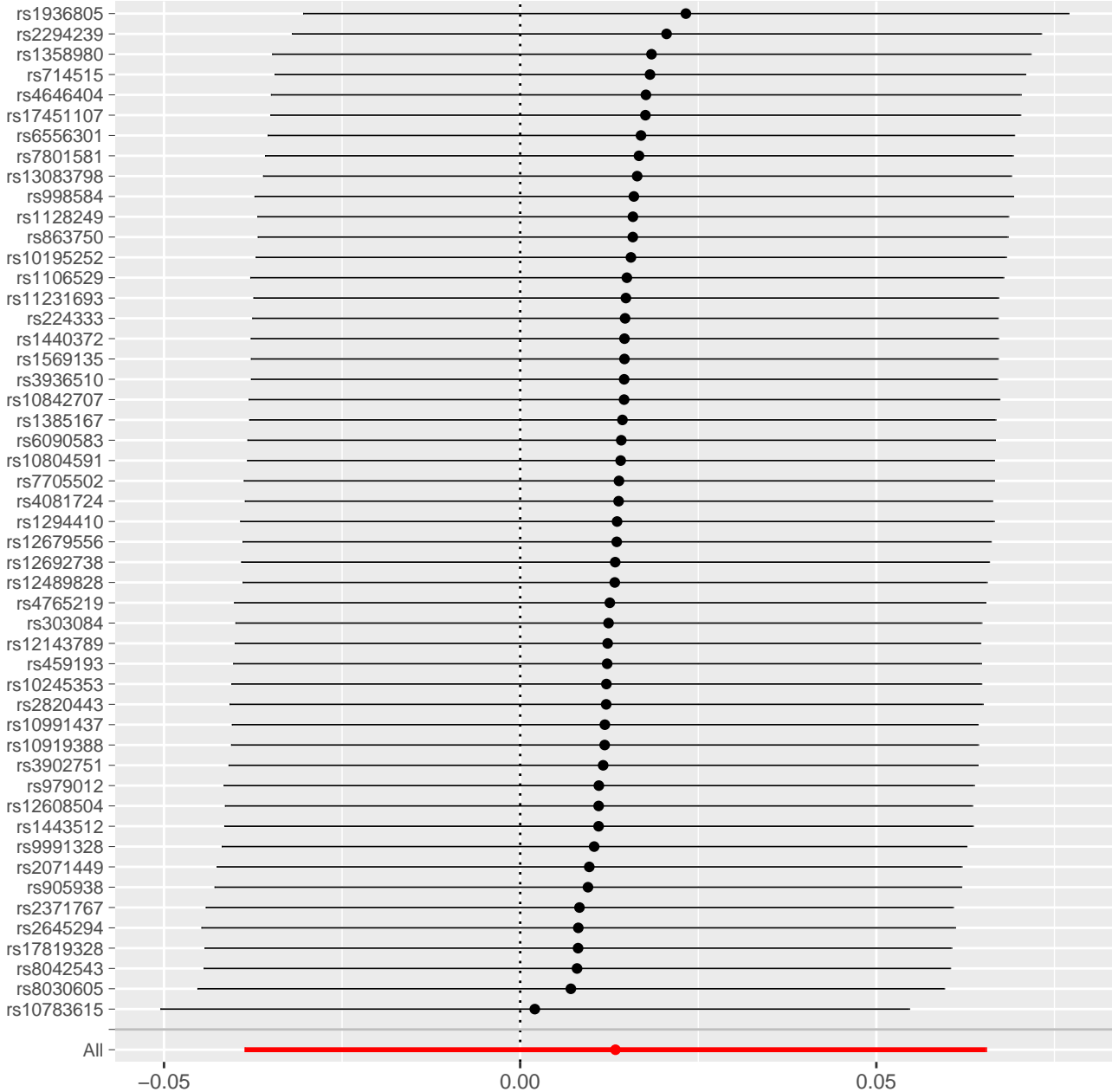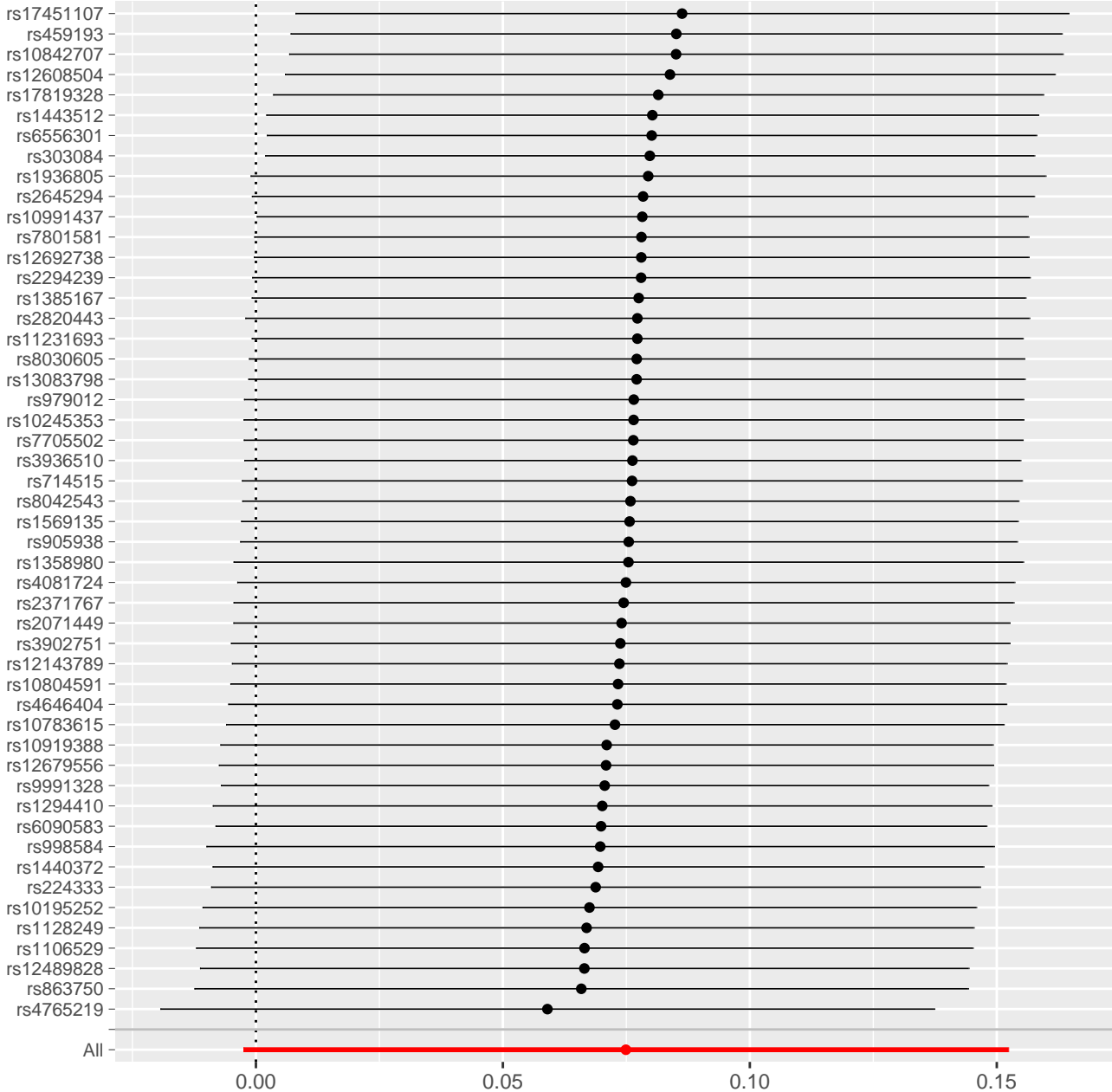
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'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14374 || id:723'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14450−−phenylalanylleucine || id:724'

MR leave−one−out sensitivity analysis for
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MR leave−one−out sensitivity analysis for
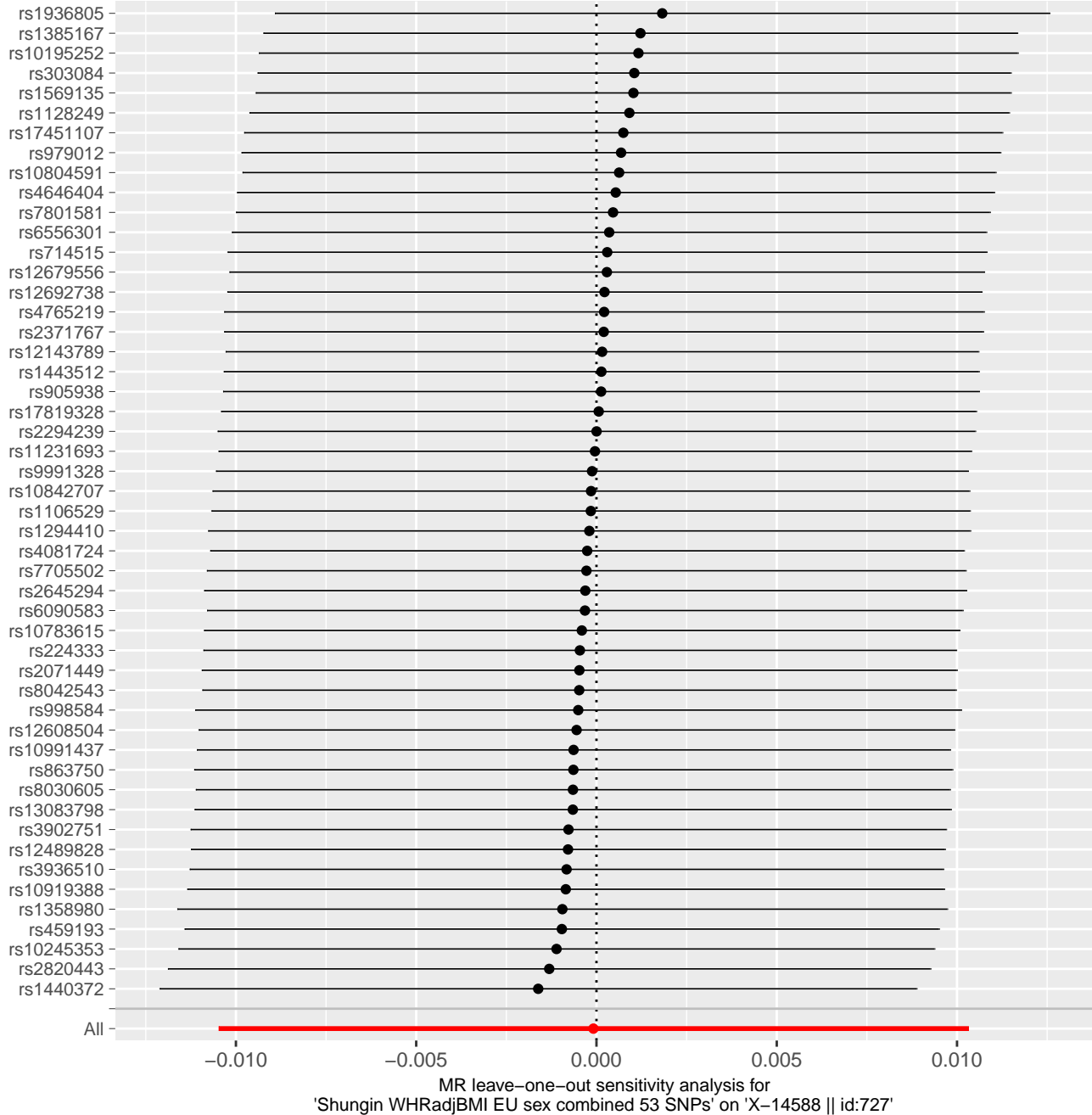'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14541 || id:726'

MR leave−one−out sensitivity analysis for
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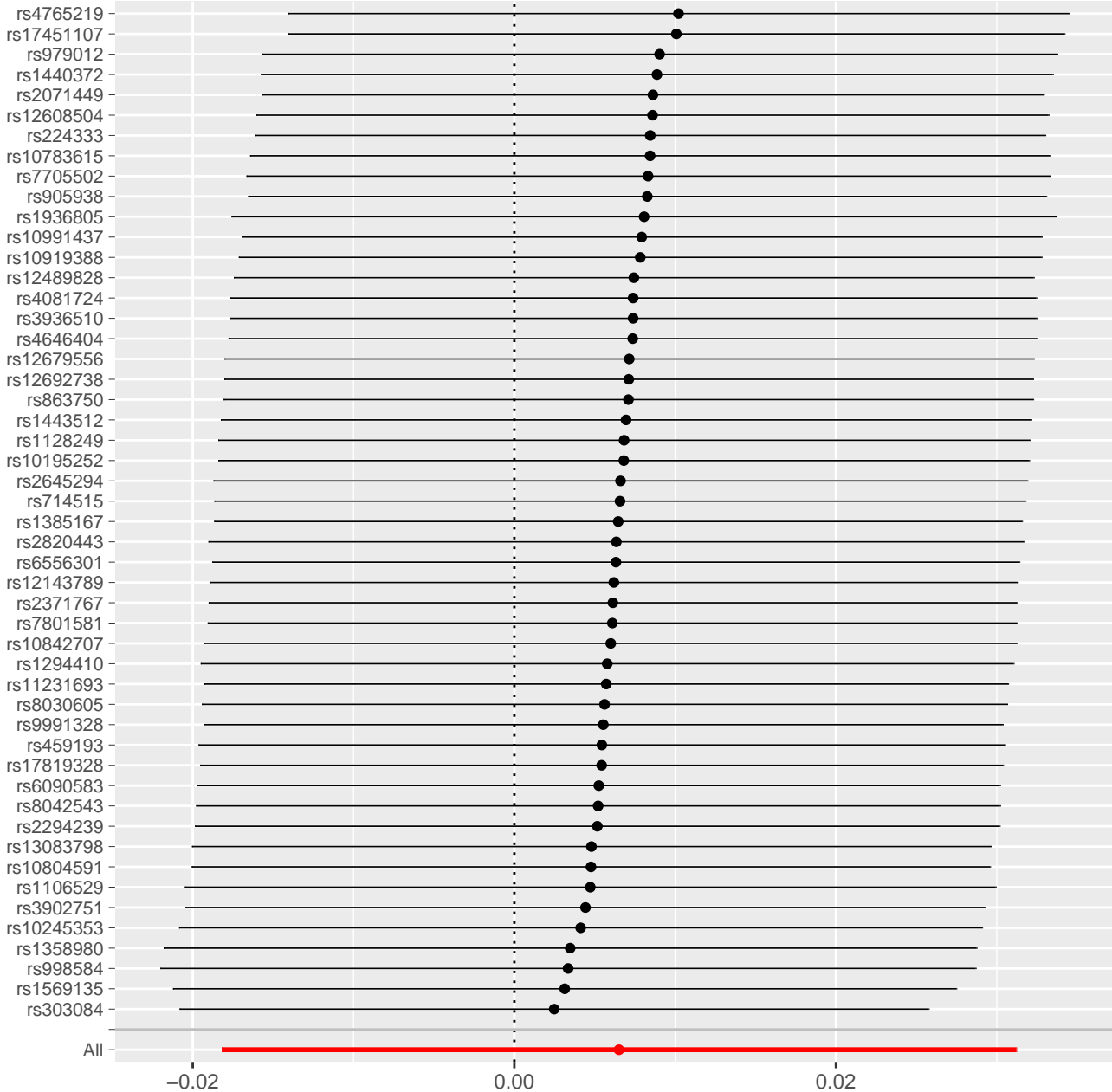'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14625 || id:728'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14626 || id:729'

MR leave−one−out sensitivity analysis for
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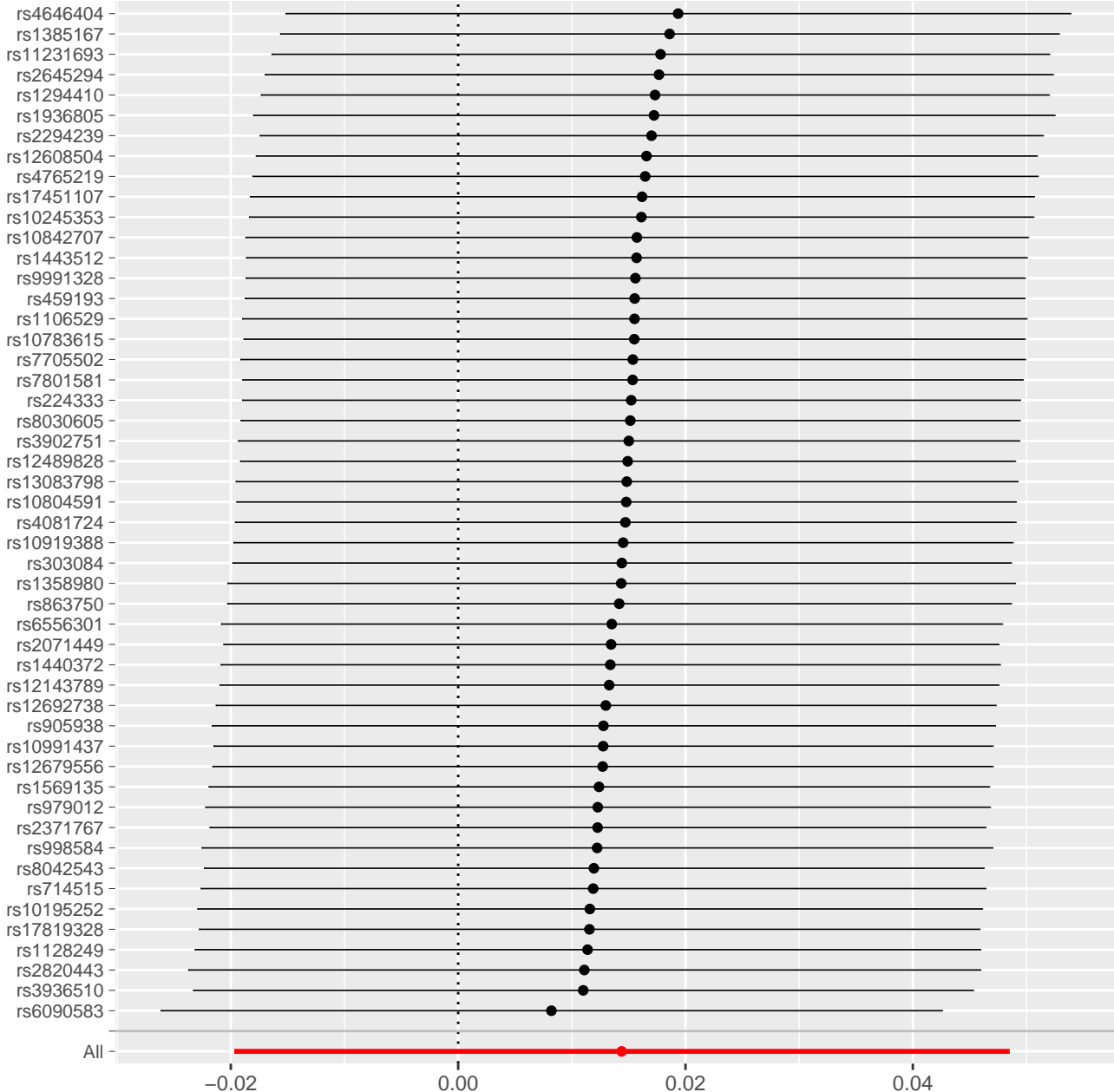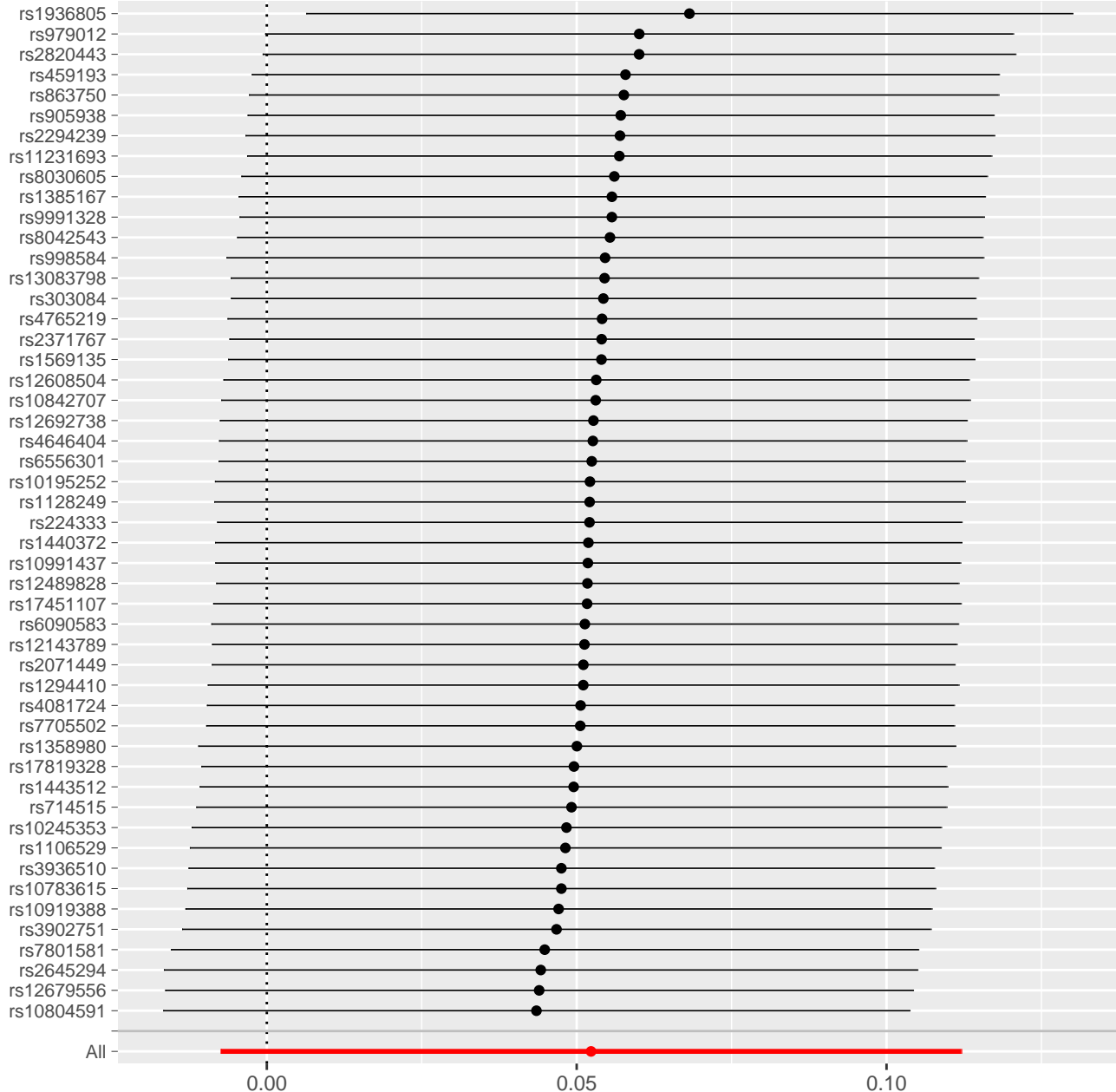MR leave−one−out sensitivity analysis for
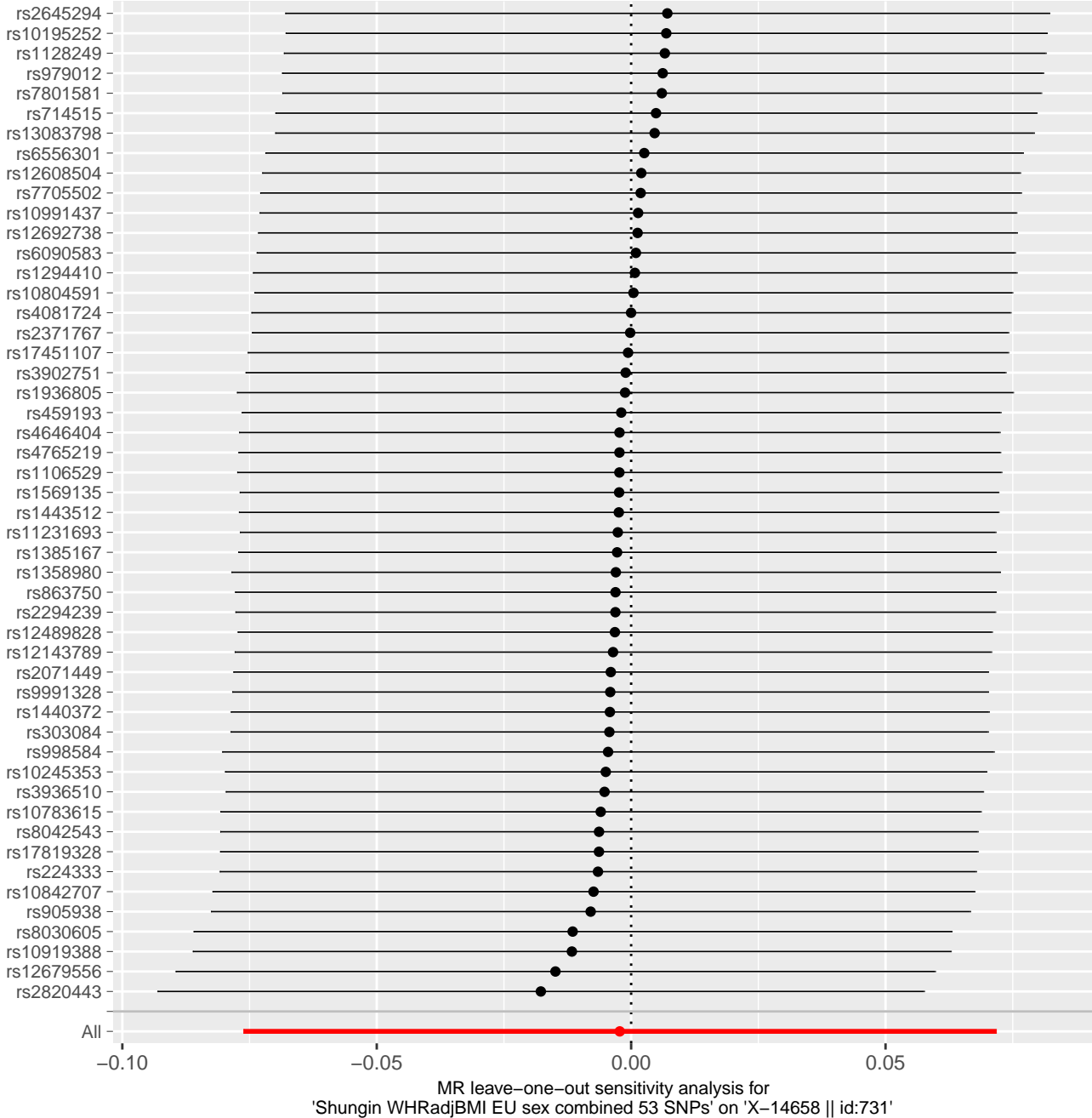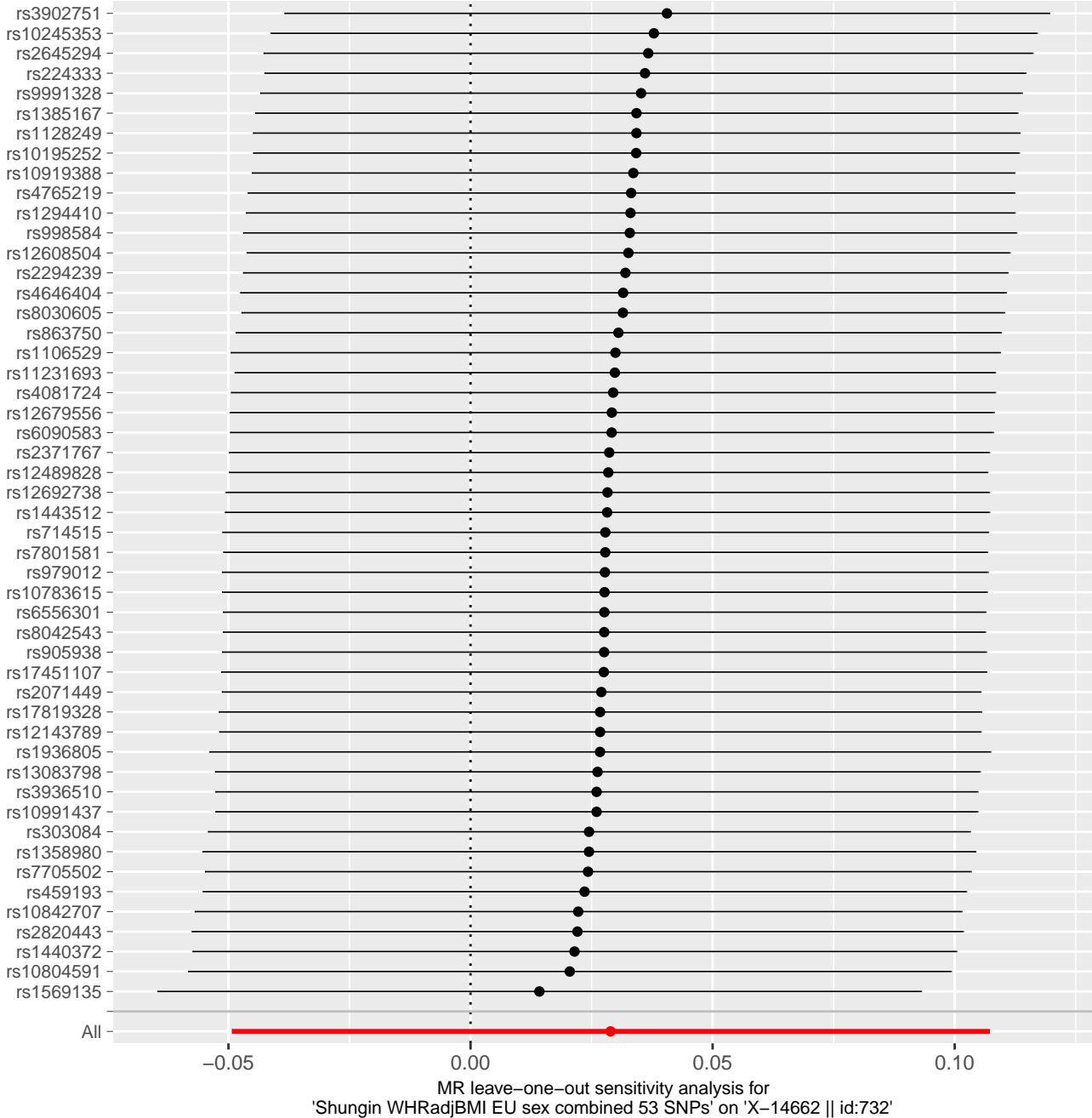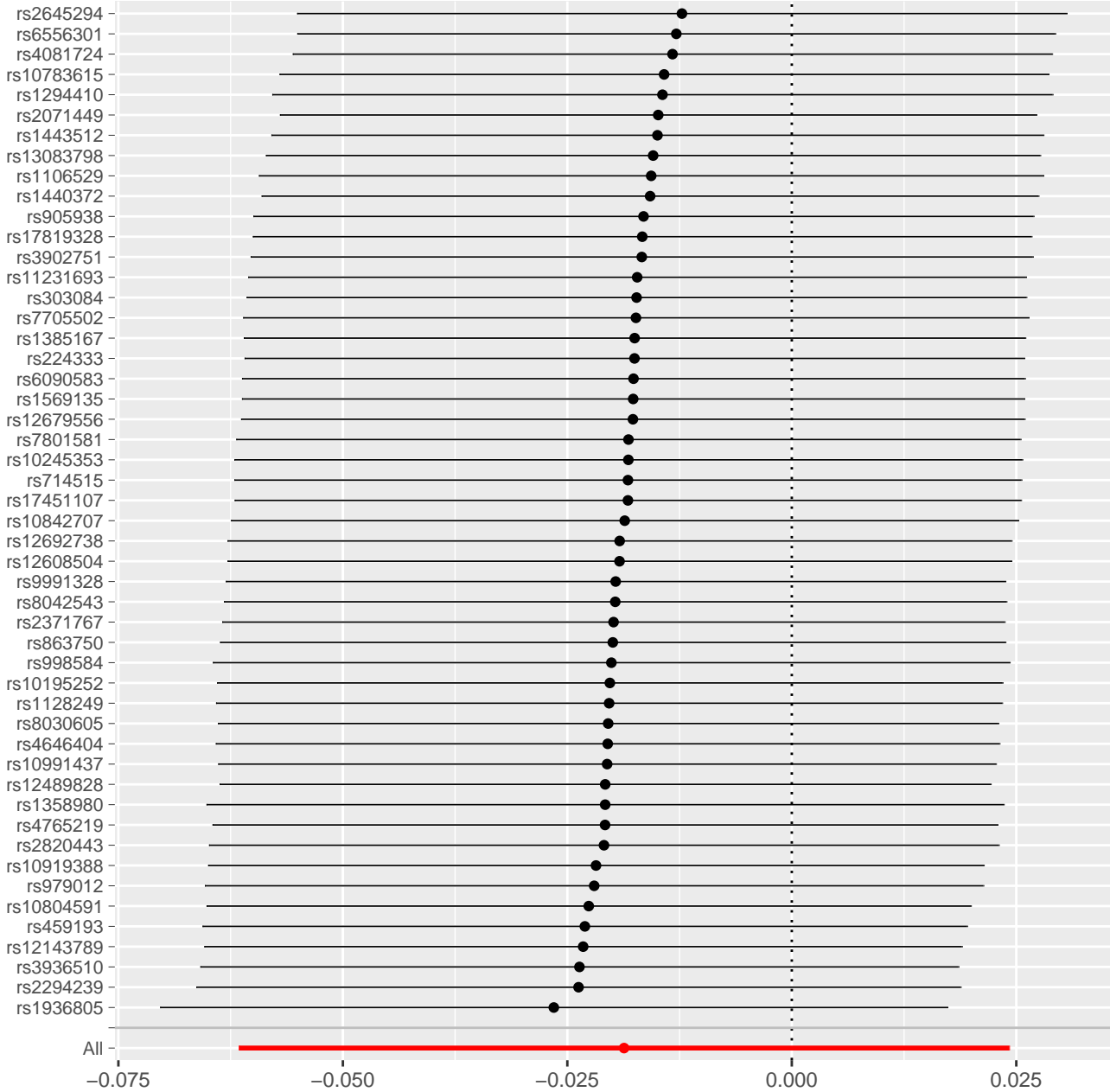'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14658 || id:731'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14662 || id:732'

MR leave−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14745 || id:733'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Gamma−glutamylglutamate || id:734'

MR leave−one−out sensitivity analysis for
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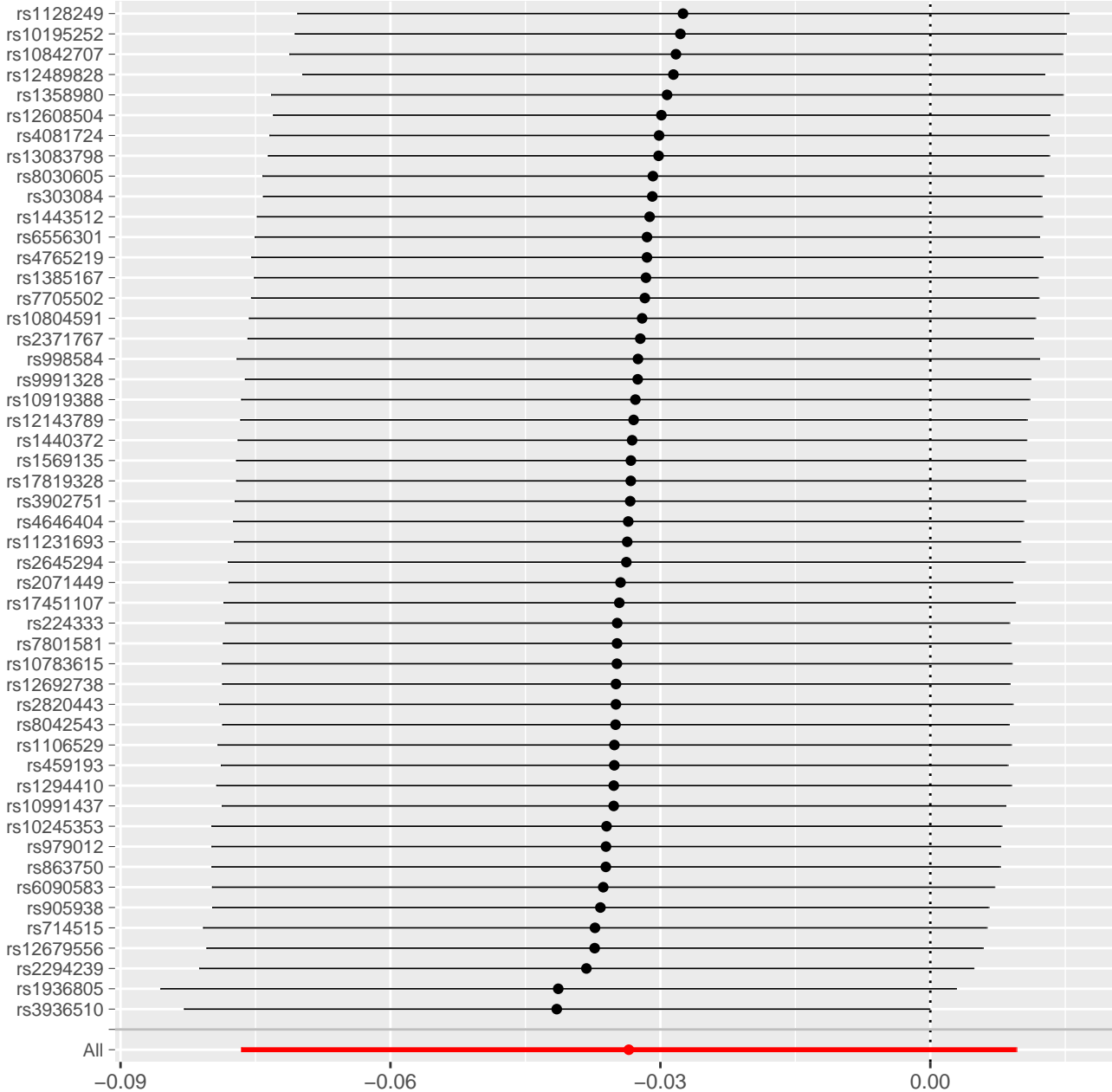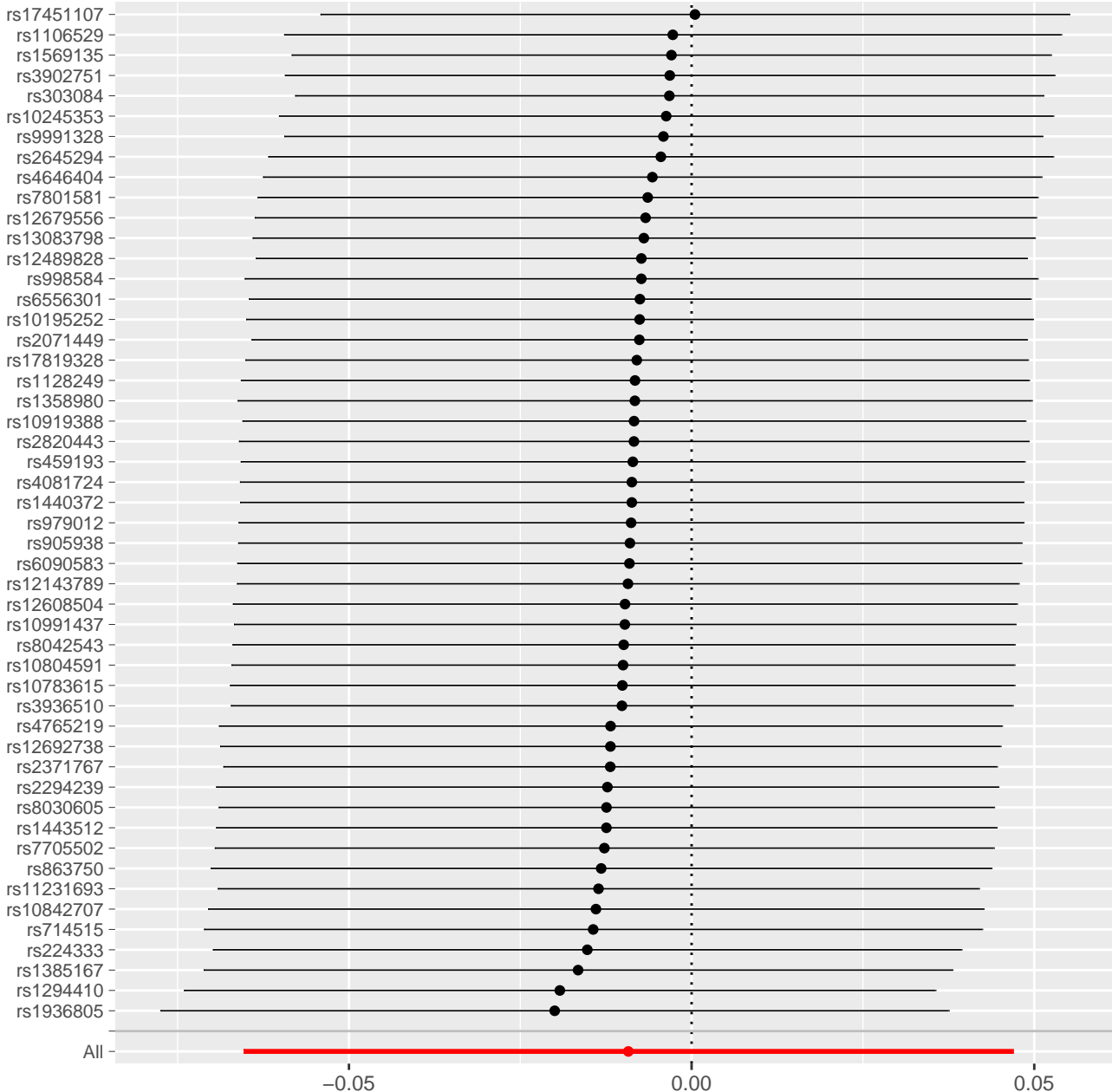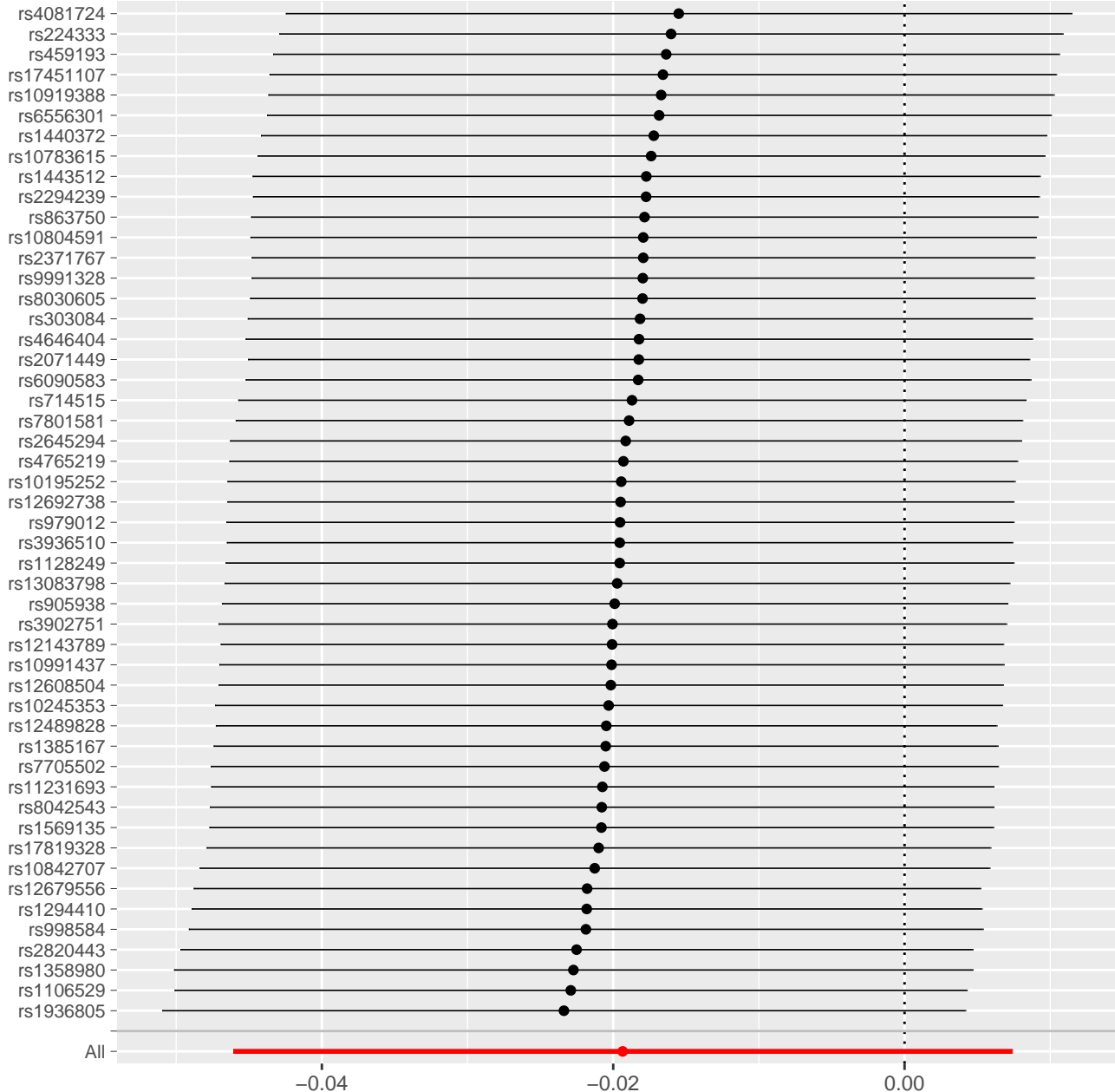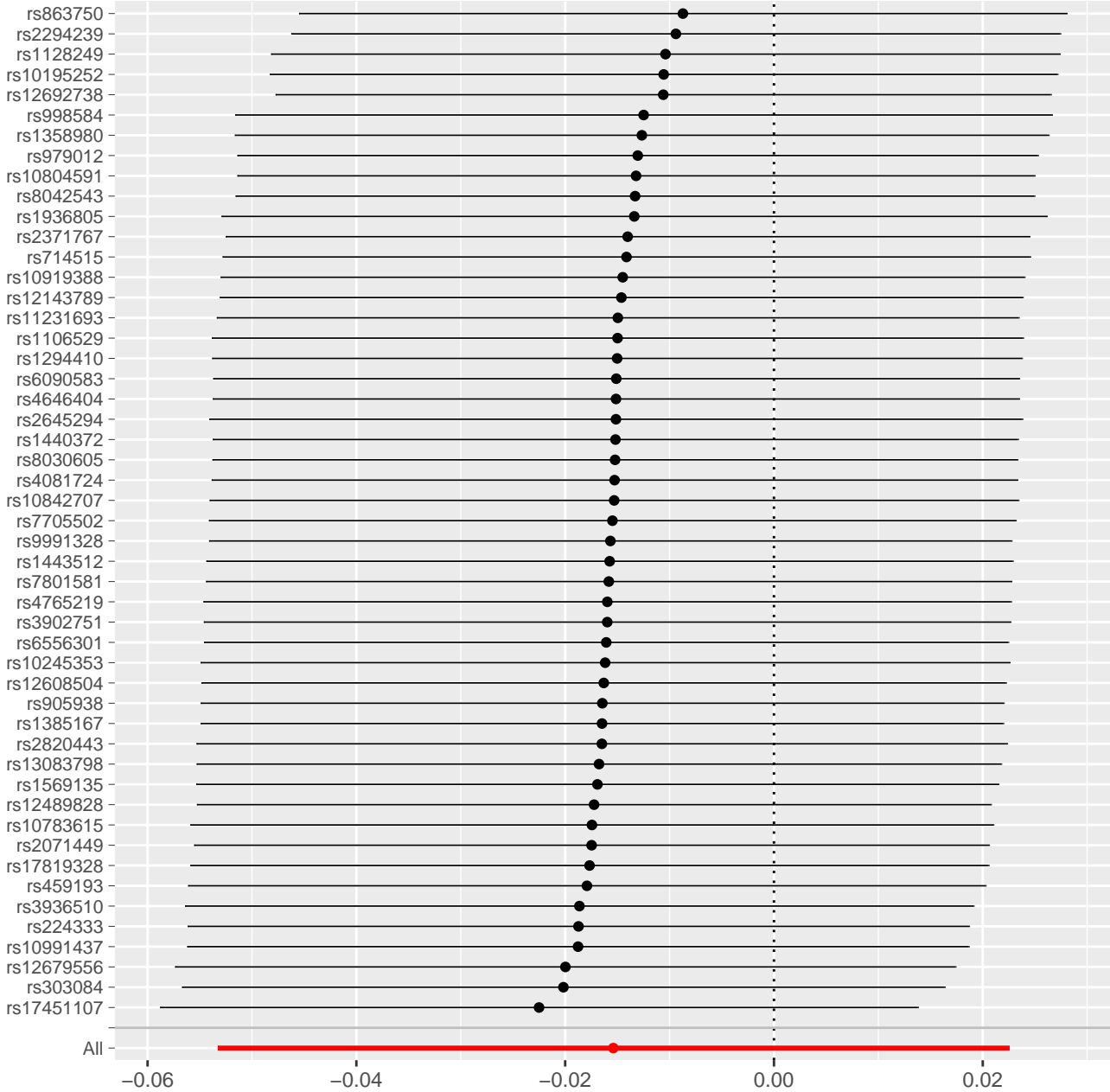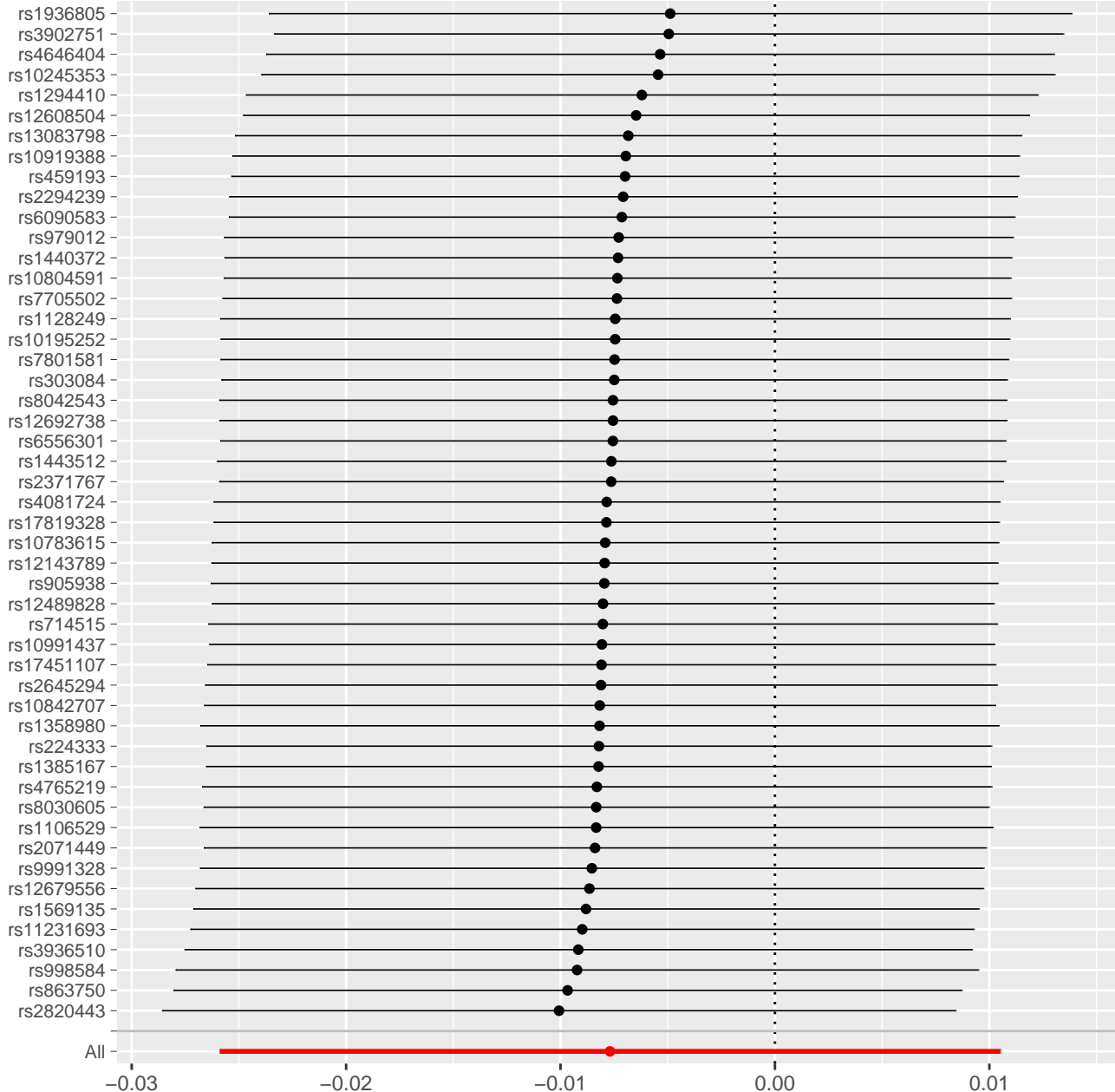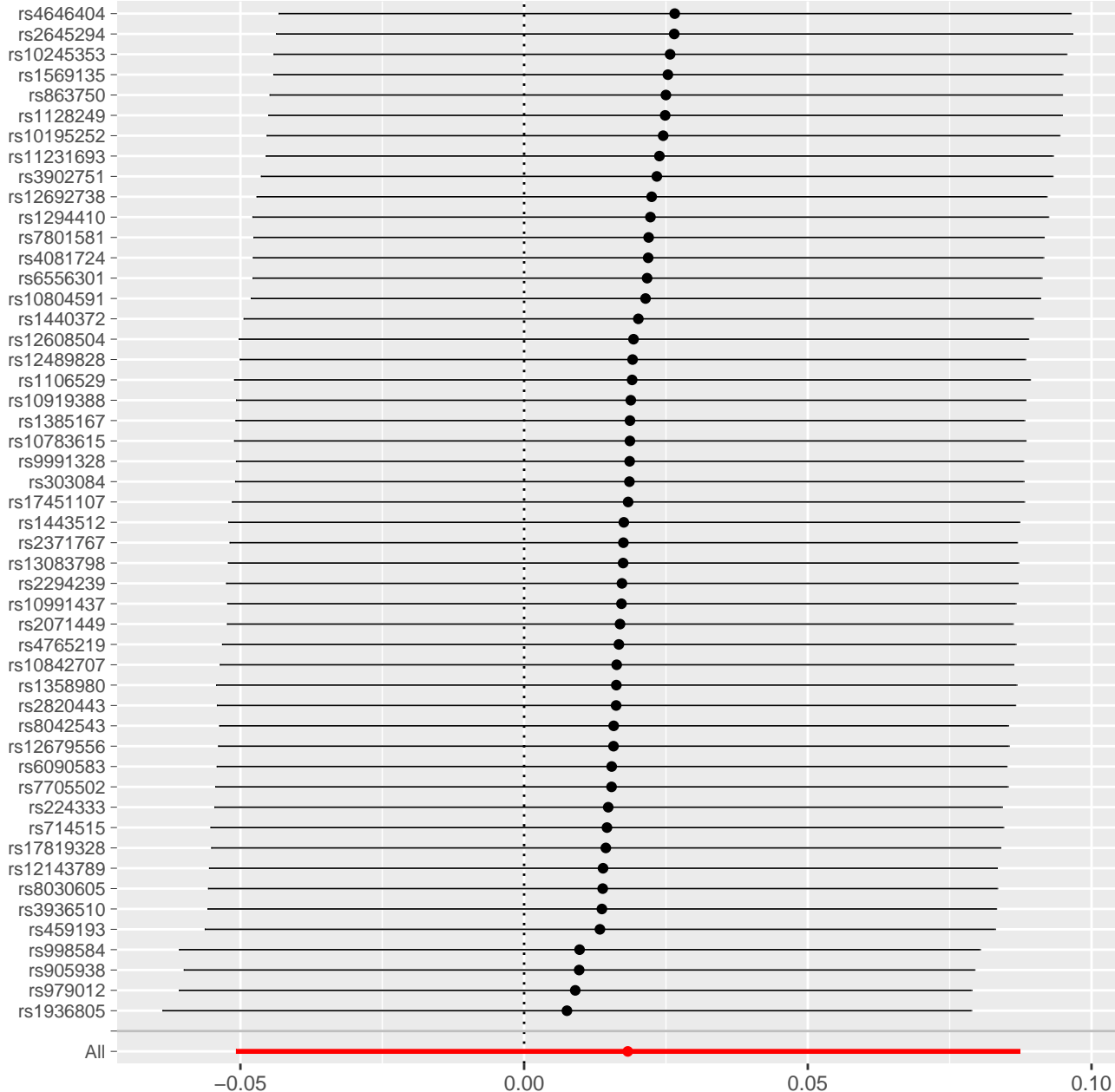
MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Leucylleucine || id:736'

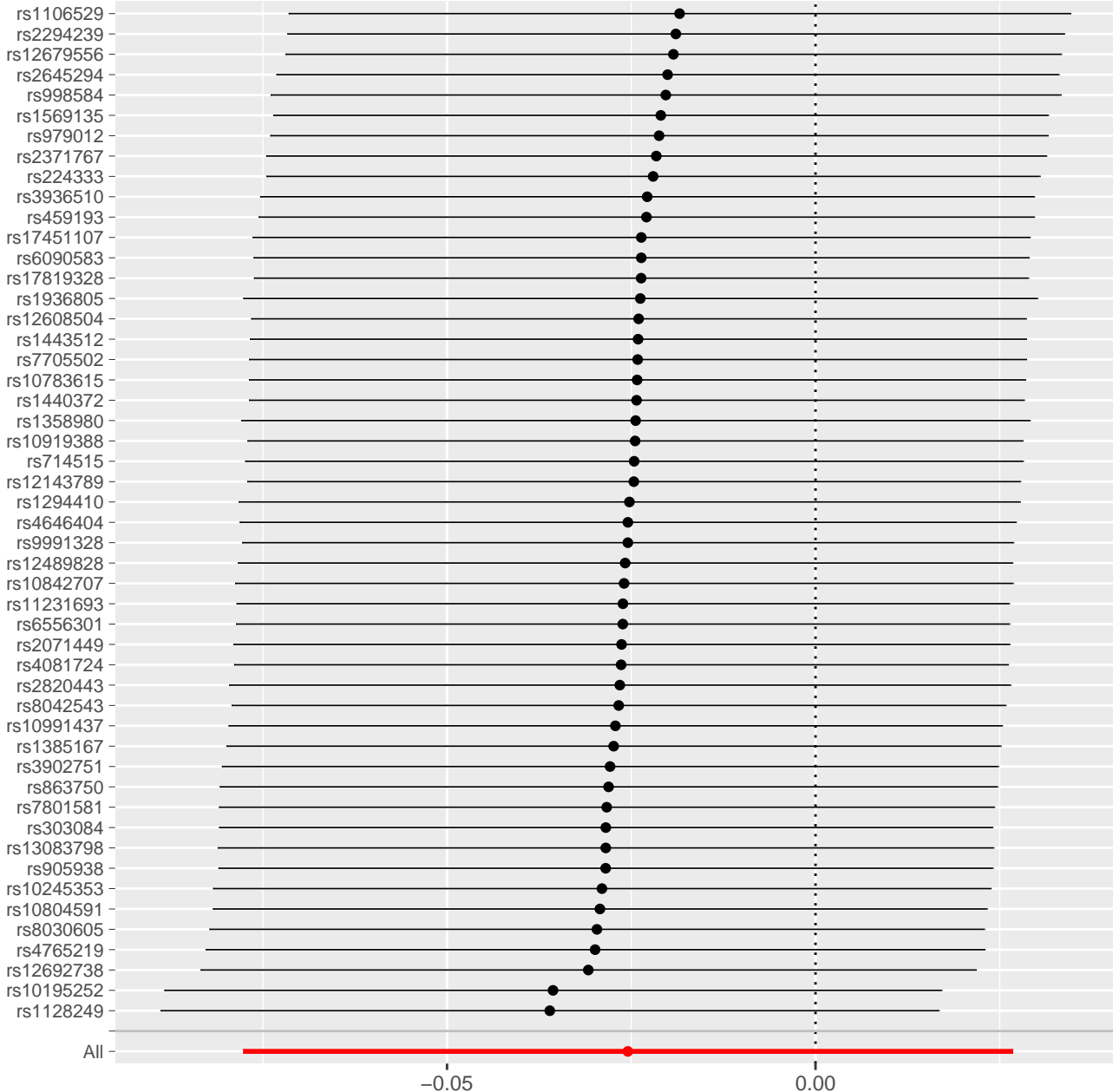MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on '7−alpha−hydroxy−3−oxo−4−cholestenoate (7−Hoca) || id:737'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'N−Butyl Oleate || id:738'

MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Dimethylarginine (SDMA + ADMA) || id:739'

MR leave−one−out sensitivity analysis for
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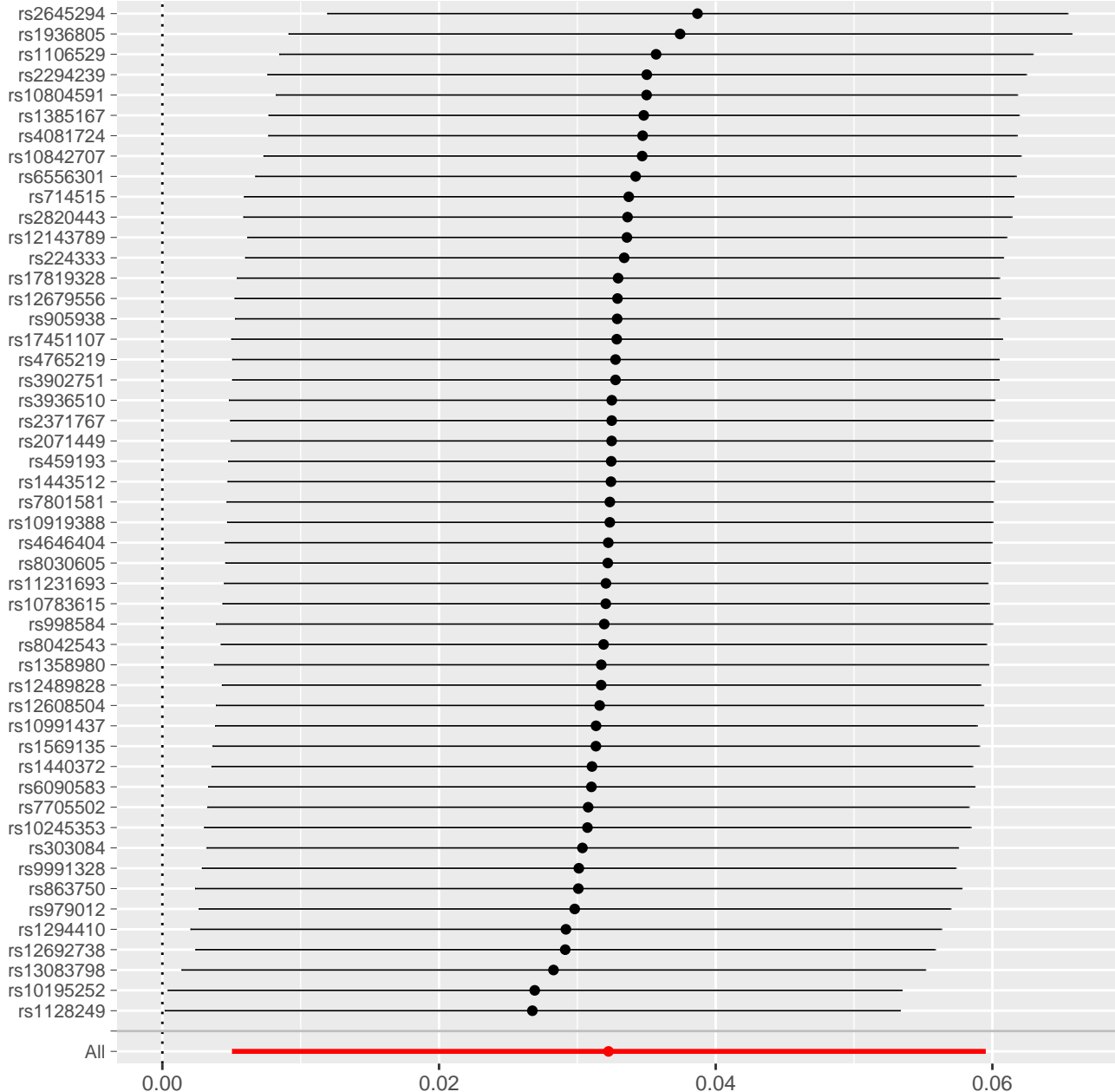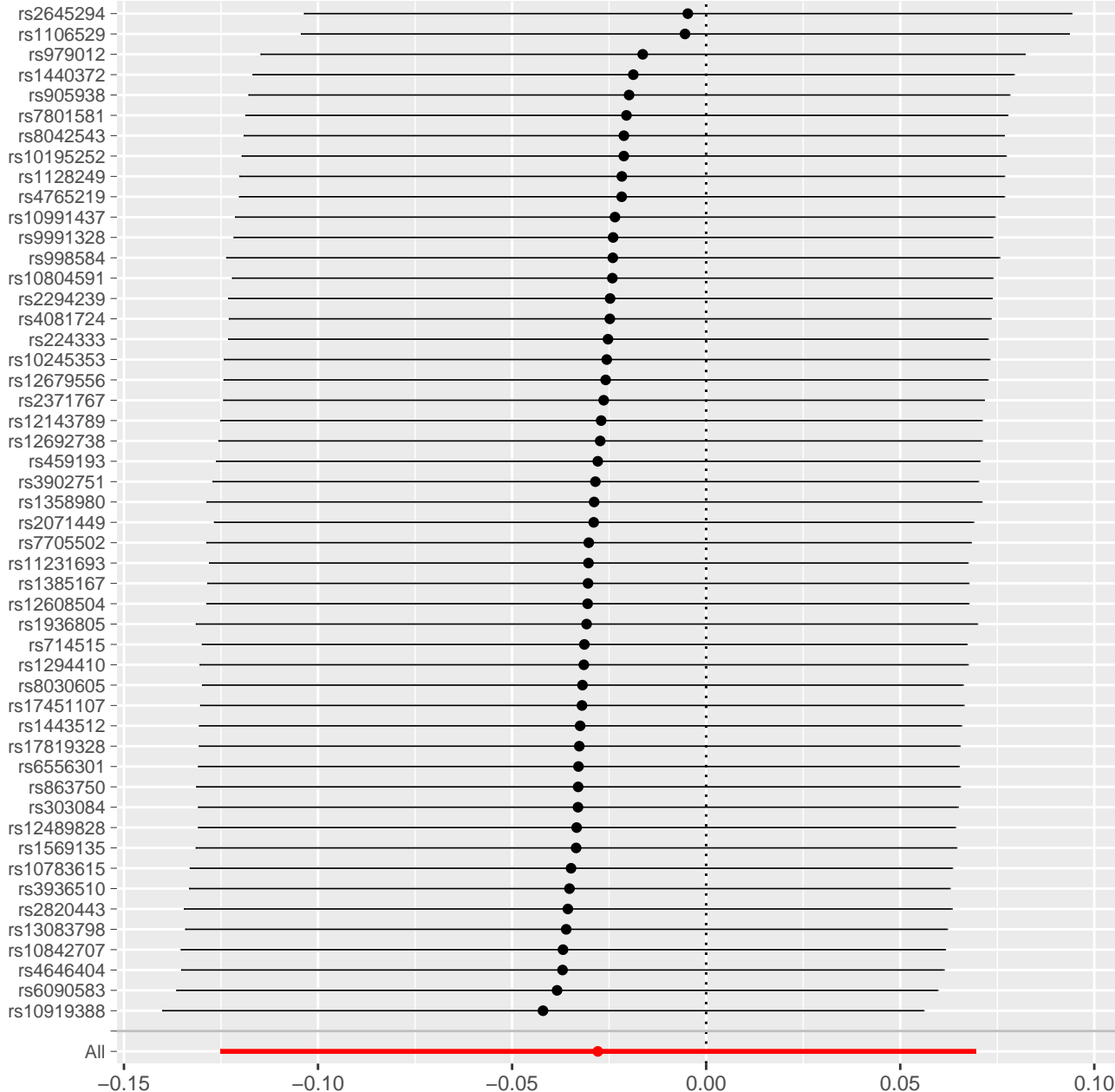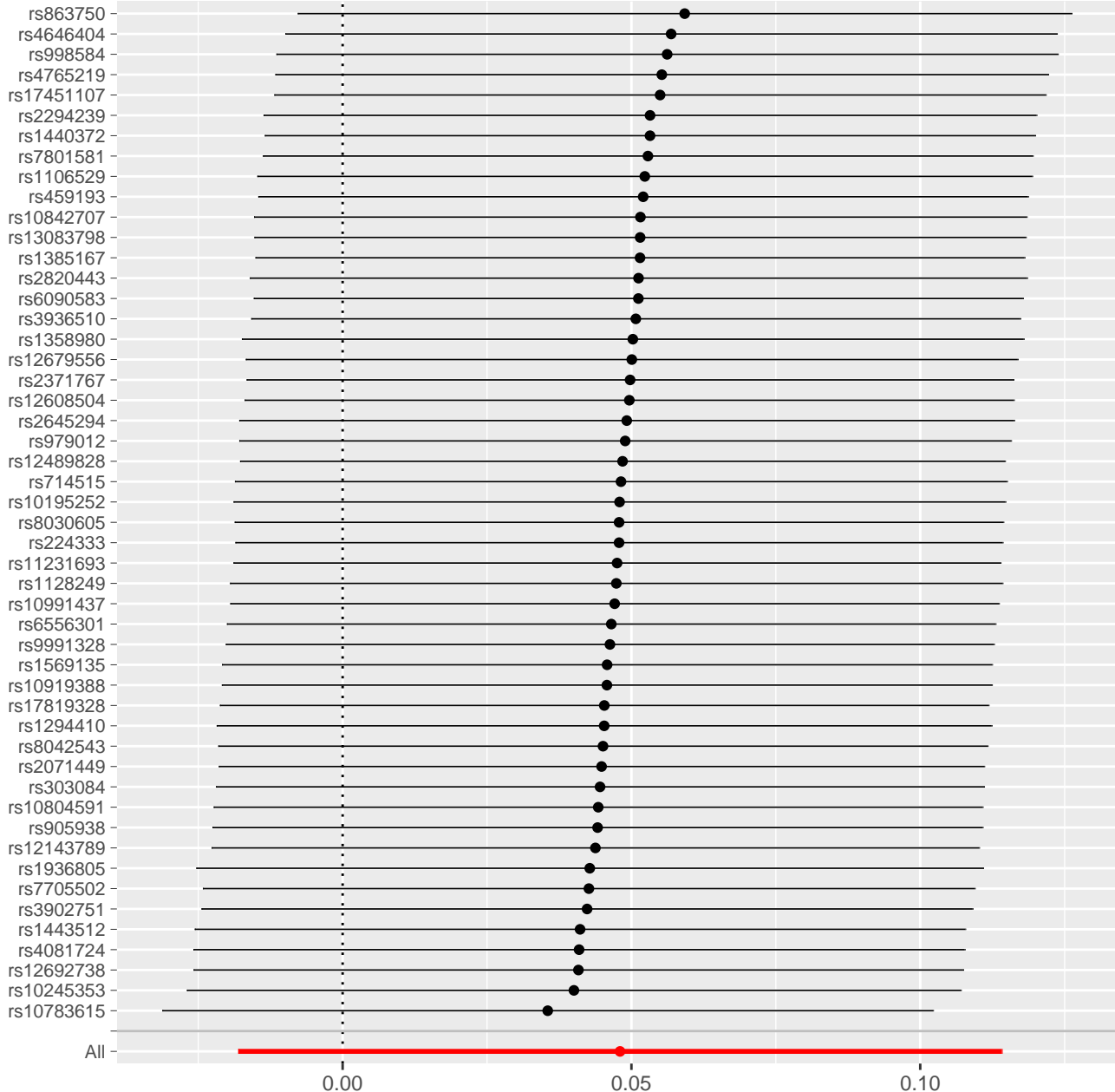
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'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'X−14977−−vanillin || id:741'

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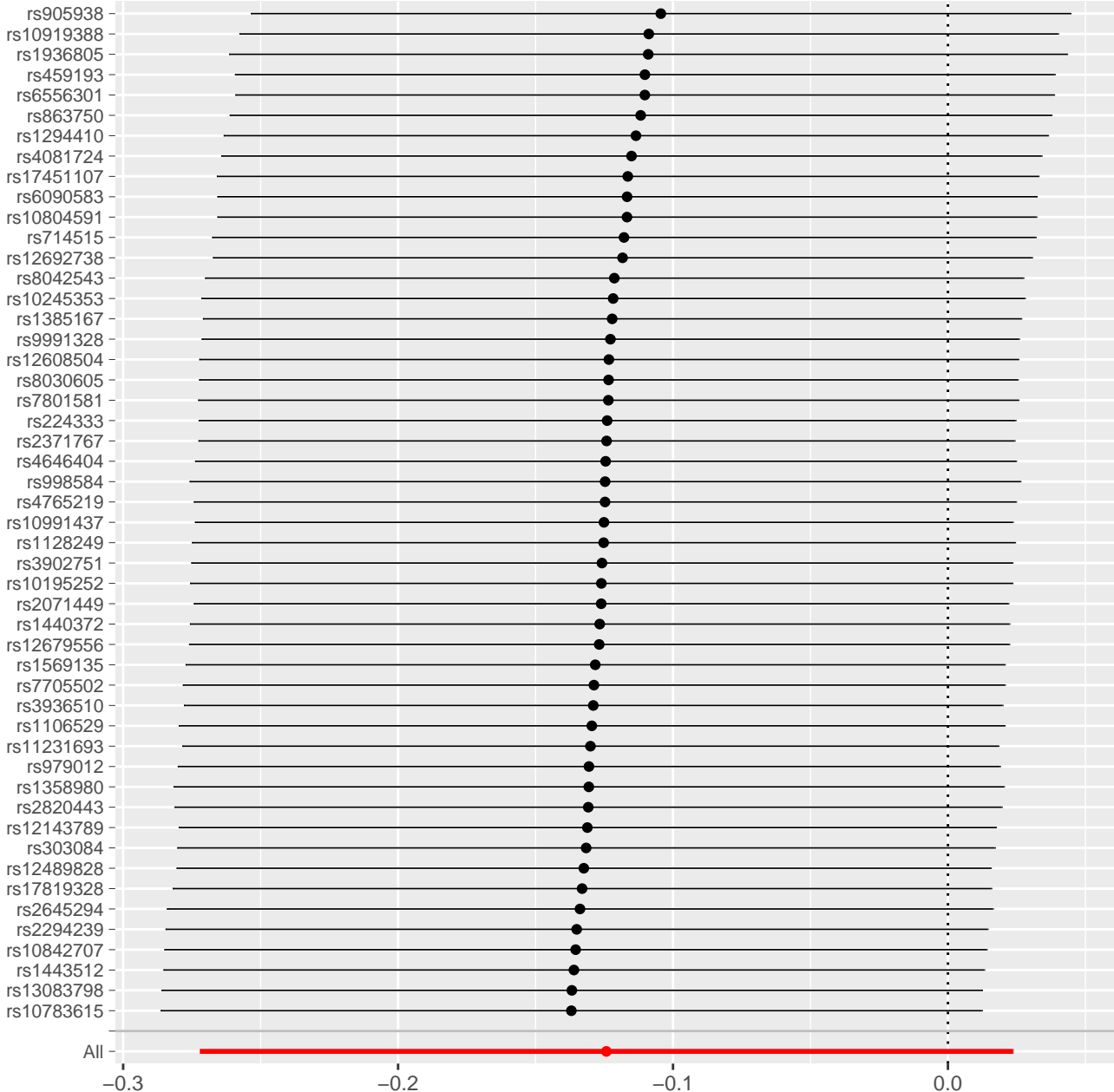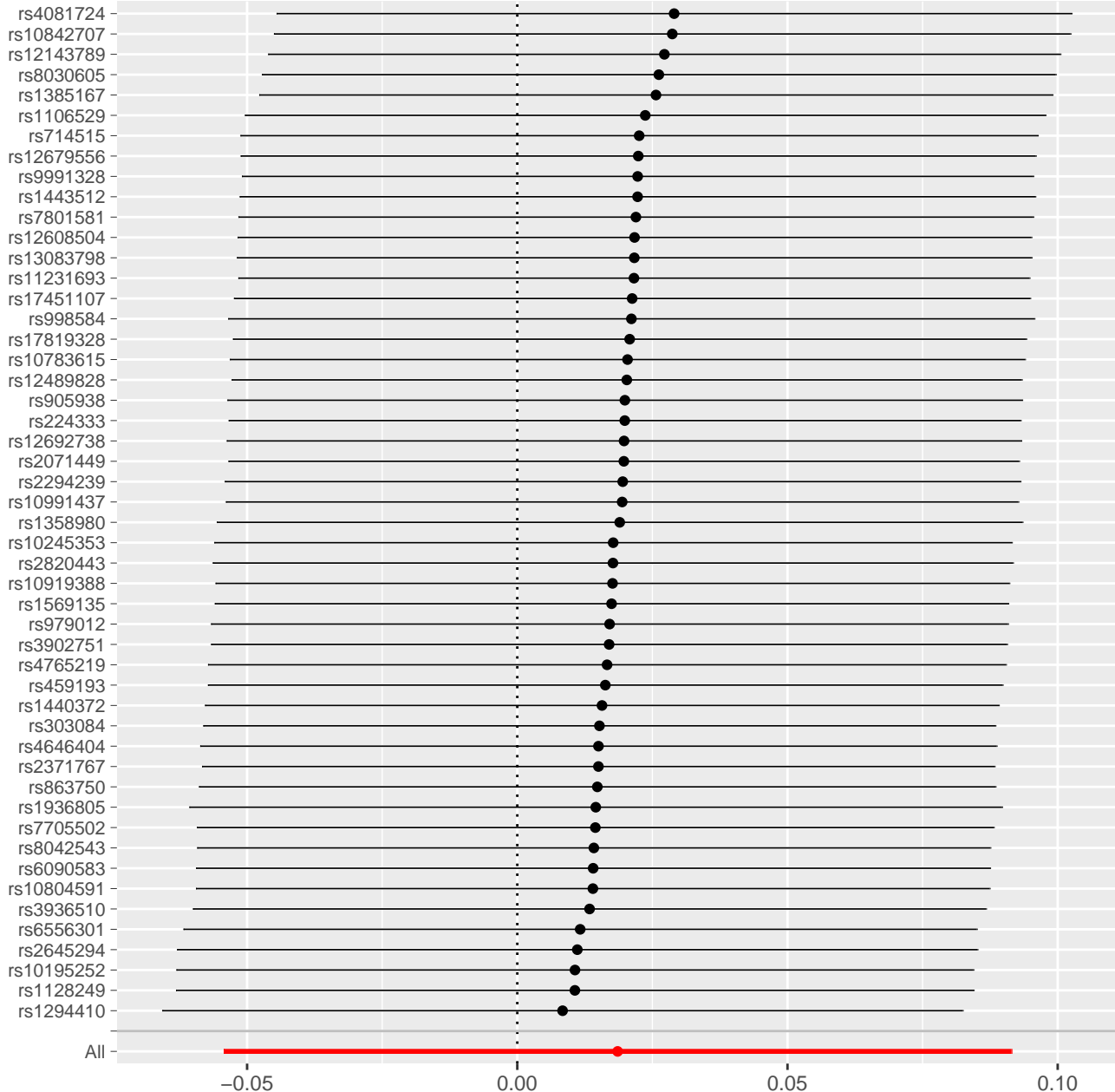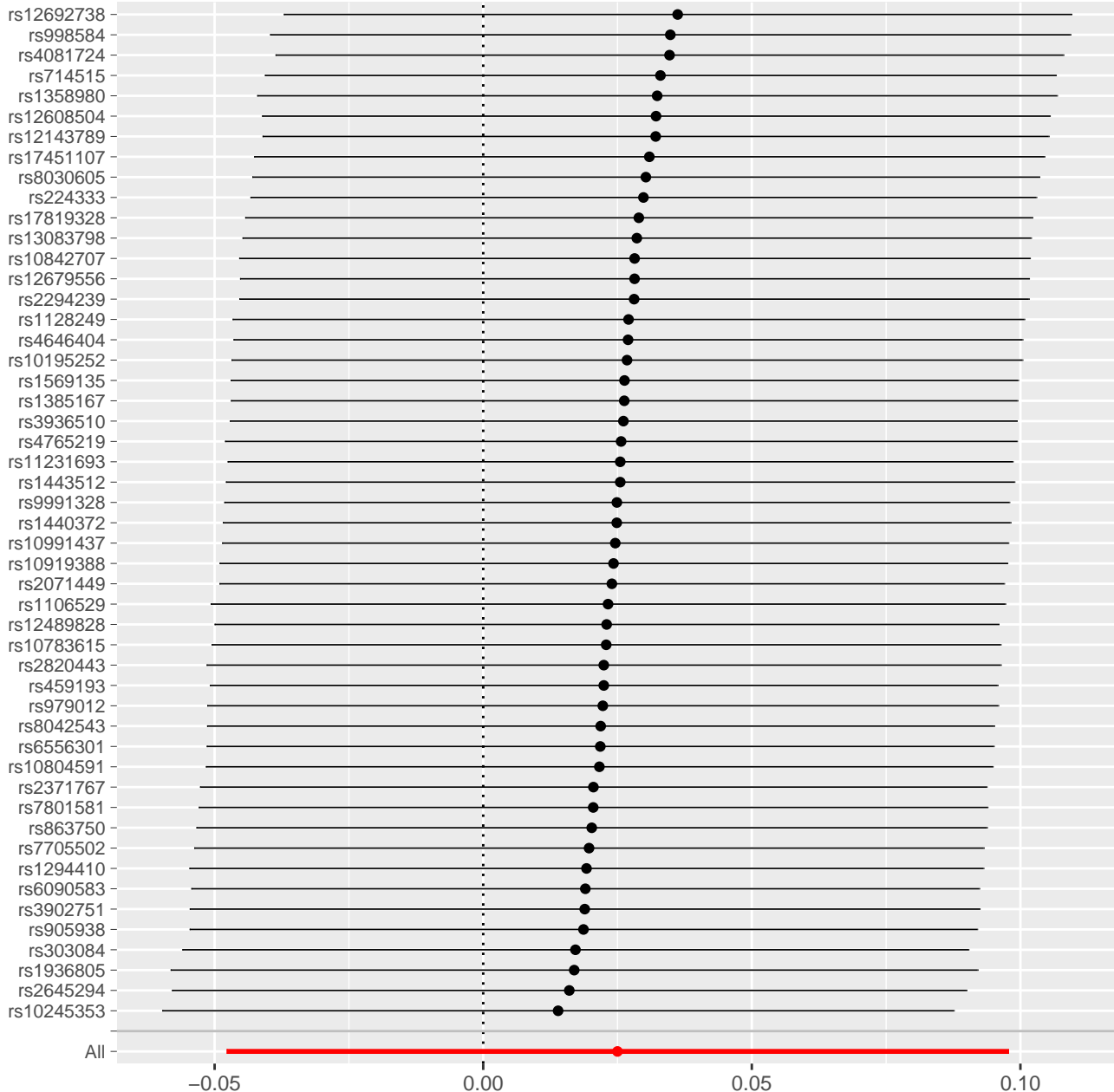
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'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Tryptophan betaine || id:743'
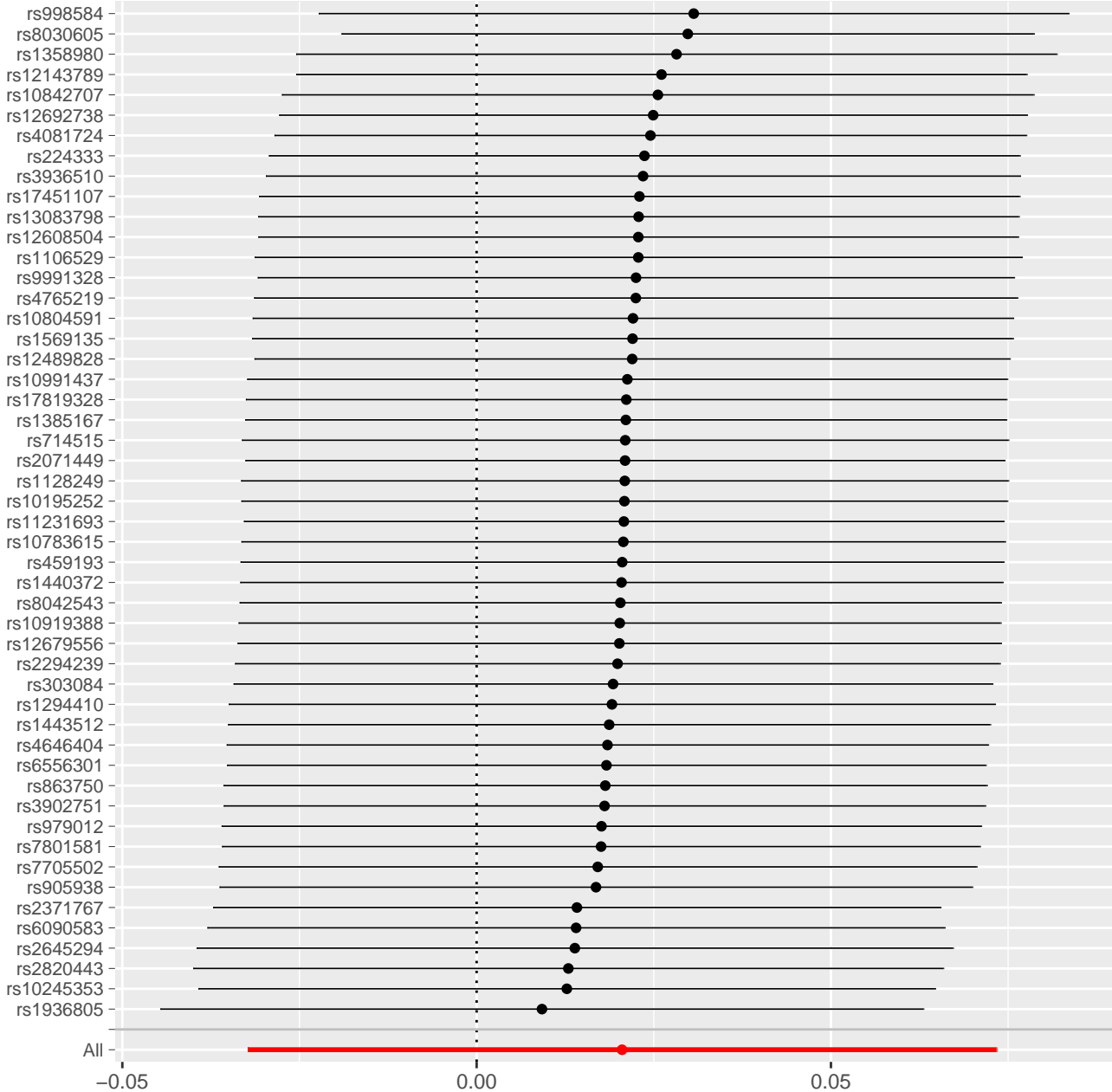
MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on 'Cyclo(leu−pro) || id:744'

MR leave−one−out sensitivity analysis for
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MR leave−one−out sensitivity analysis for
'Shungin WHRadjBMI EU sex combined 53 SNPs' on '5alpha−androstan−3beta,17beta−diol disulfate || id:746'

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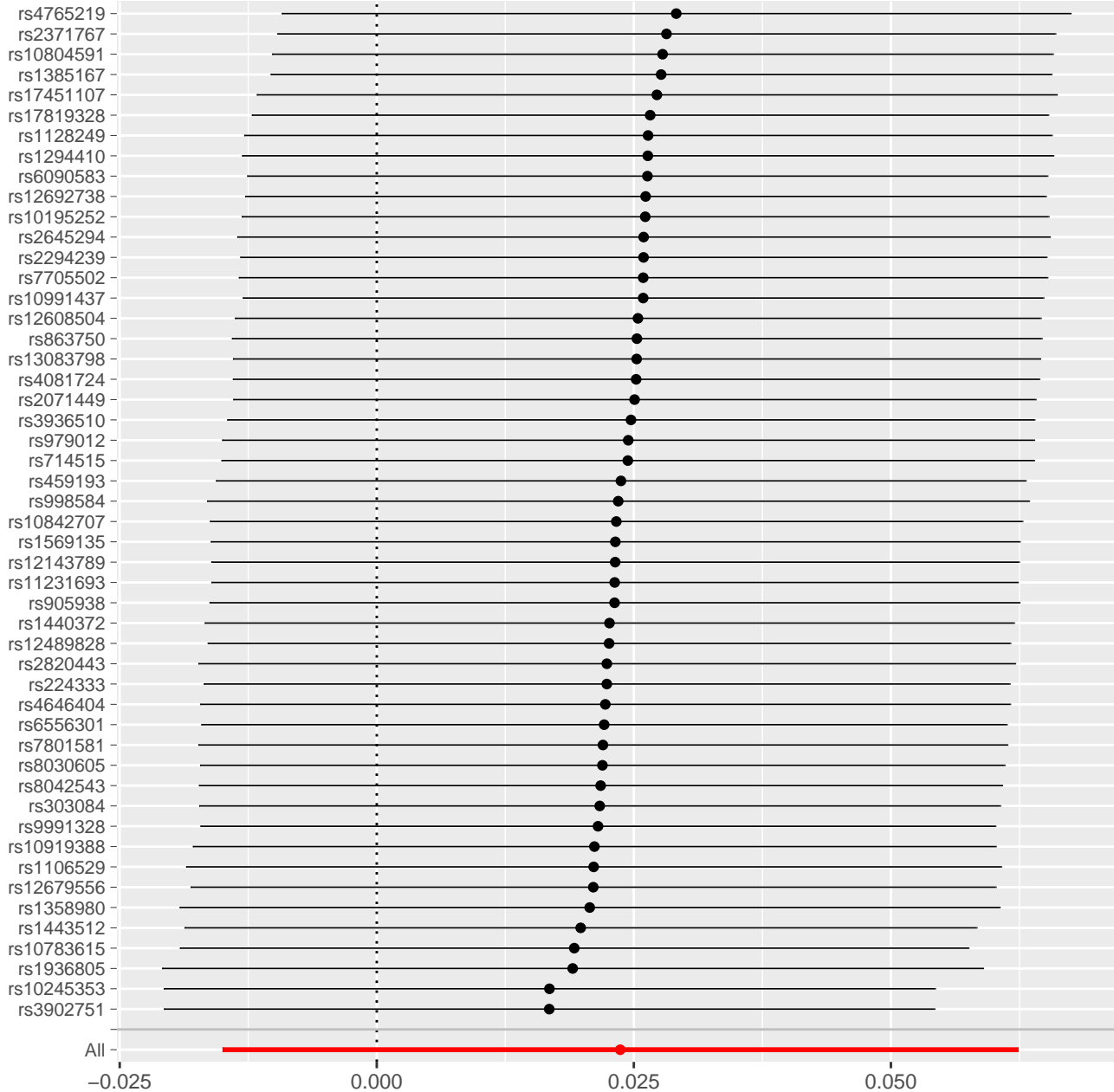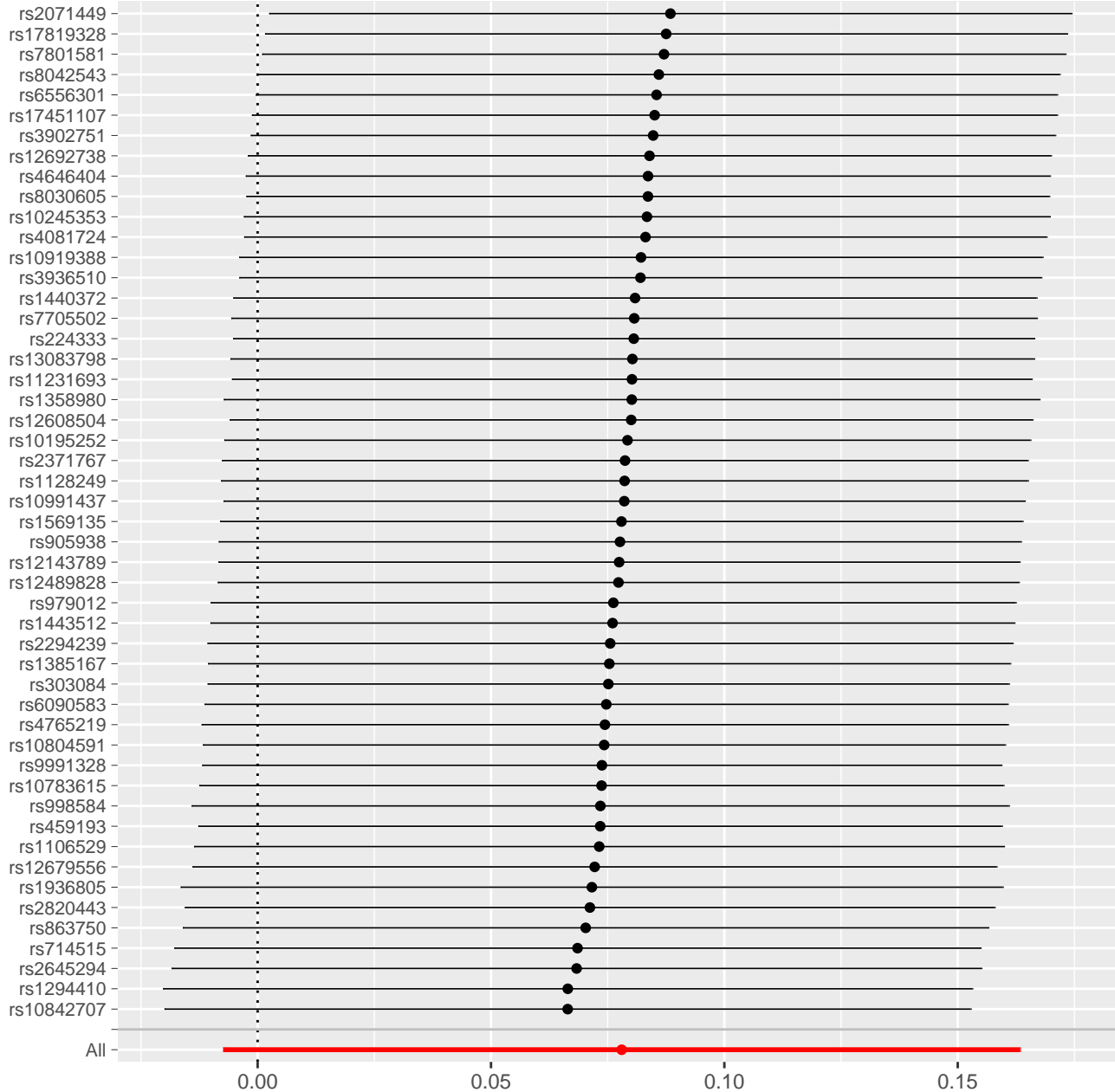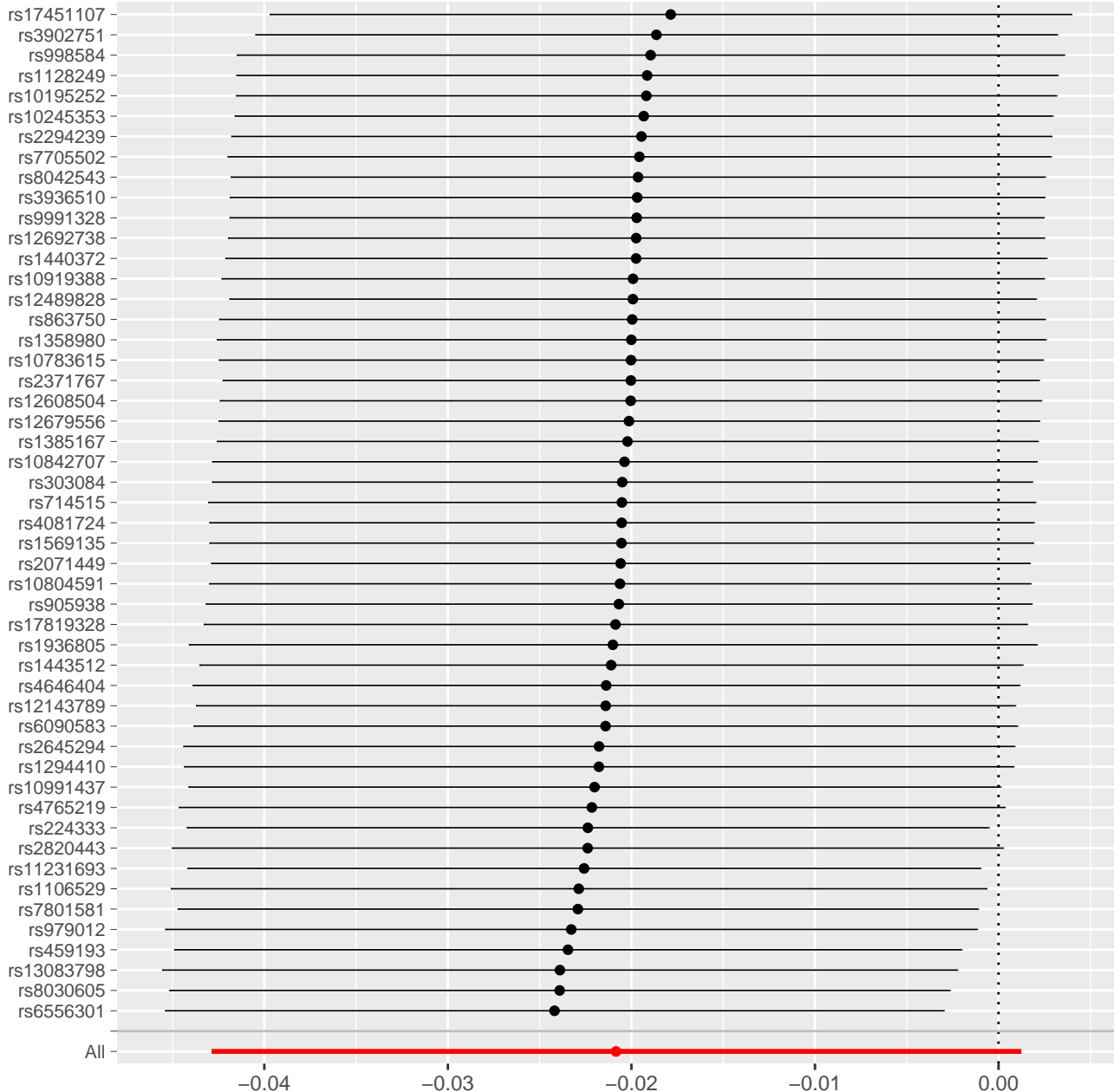'Shungin WHRadjBMI EU sex combined 53 SNPs' on '4−androsten−3beta,17beta−diol disulfate 1* || id:747'

MR leave−one−out sensitivity analysis for
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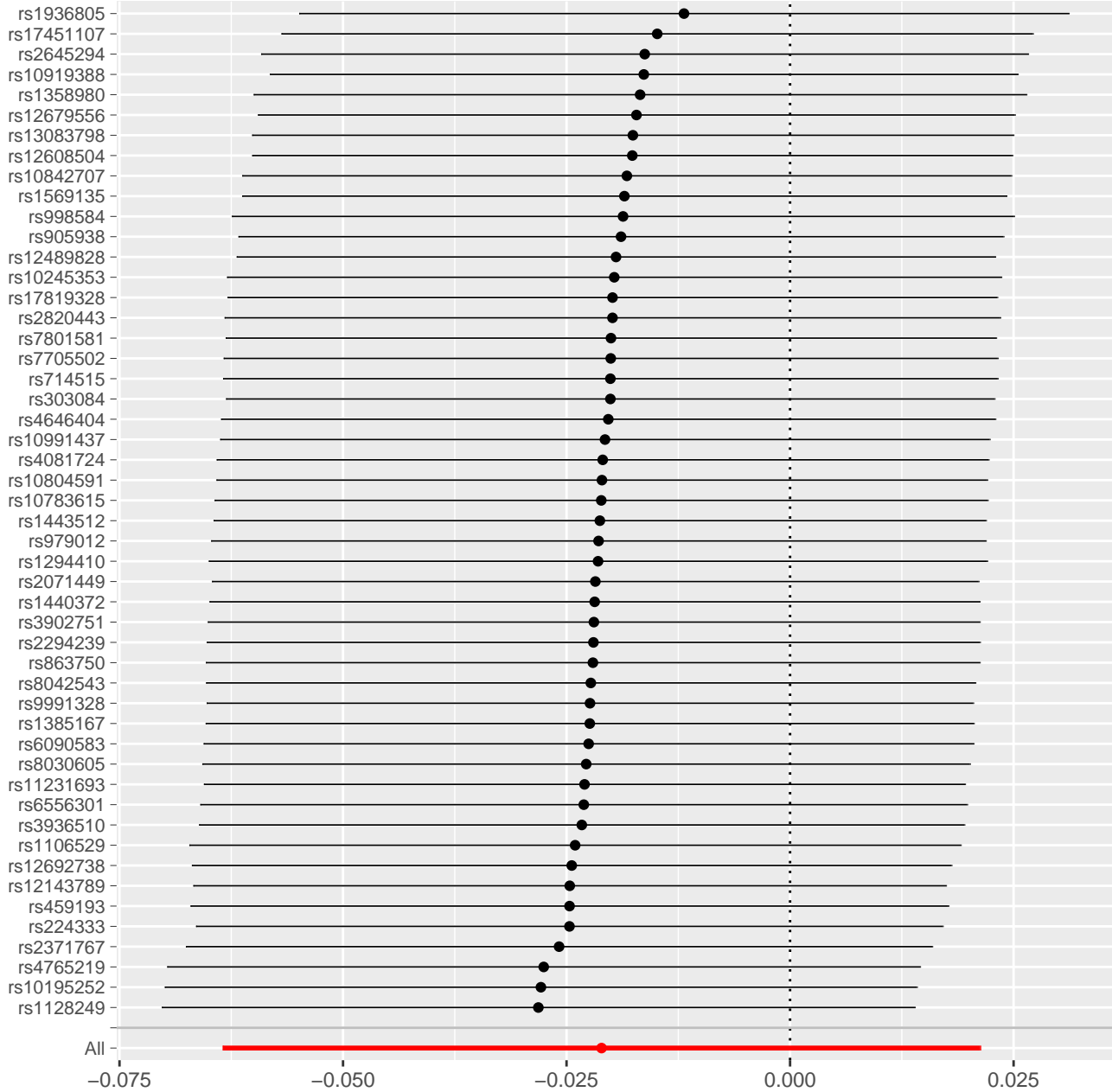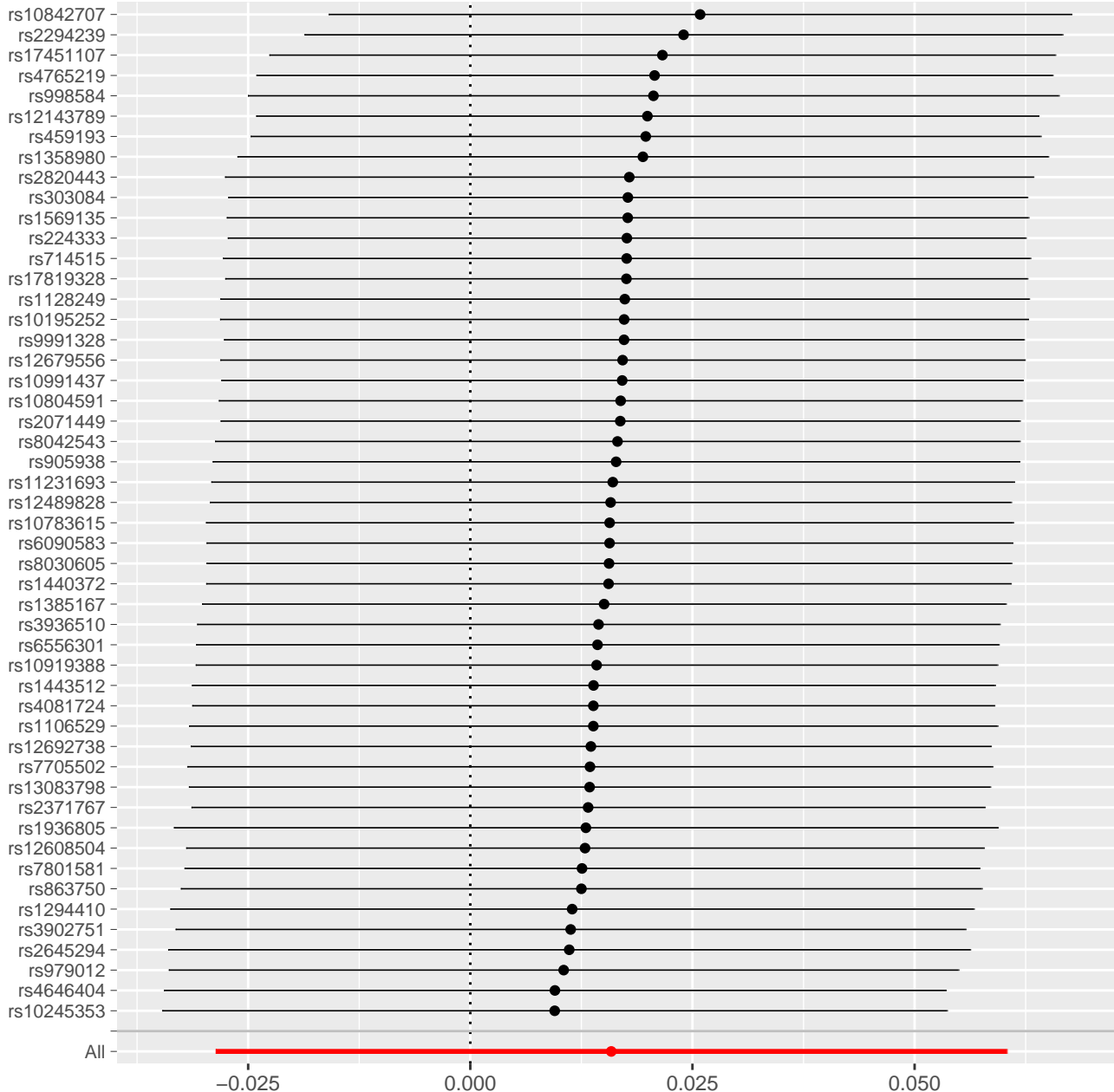
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MR leave−one−out sensitivity analysis for
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MR leave−out sensitivity analysis for
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MR leave−one−out sensitivity analysis for
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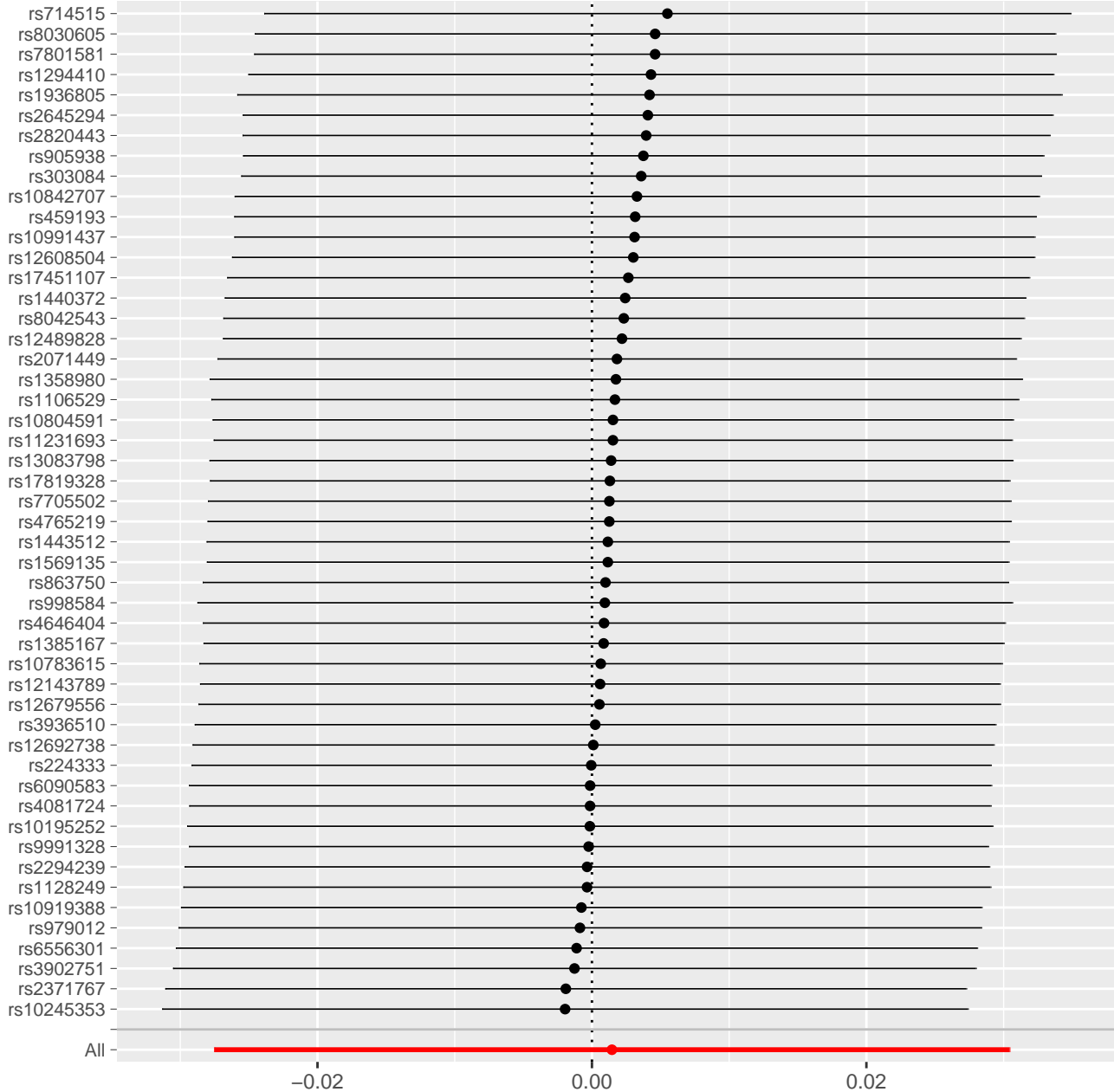
MR leave−one−out sensitivity analysis for
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MR leave−one−out sensitivity analysis for
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