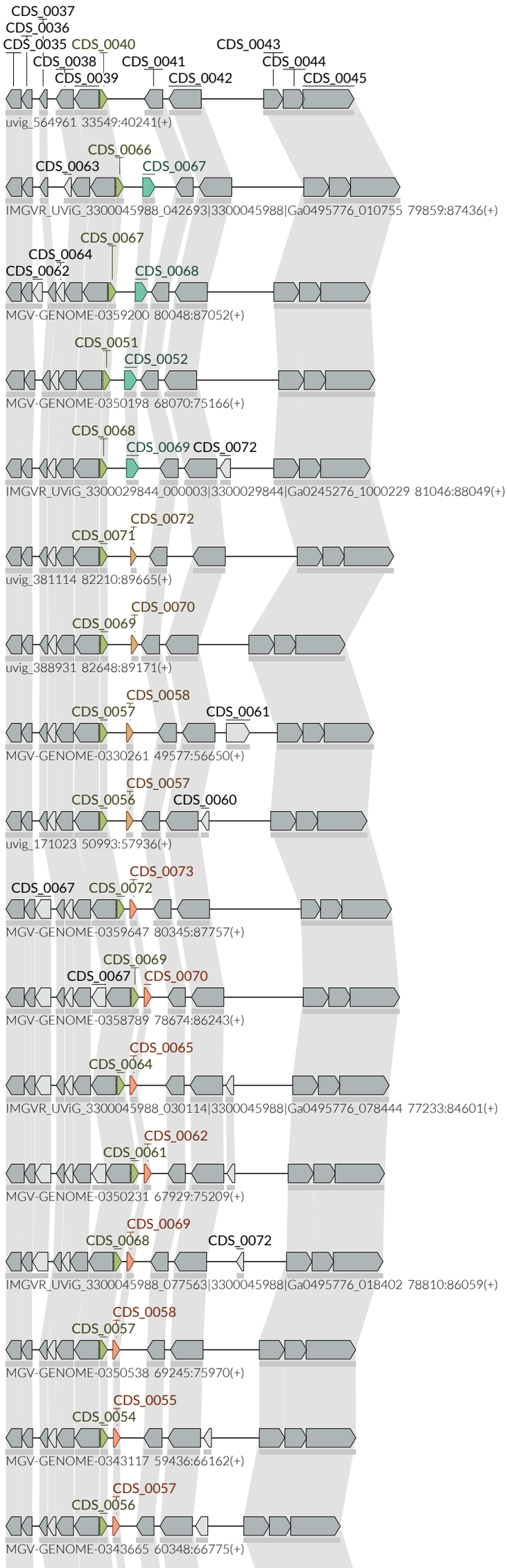
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CDS_0052
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CDS_0057
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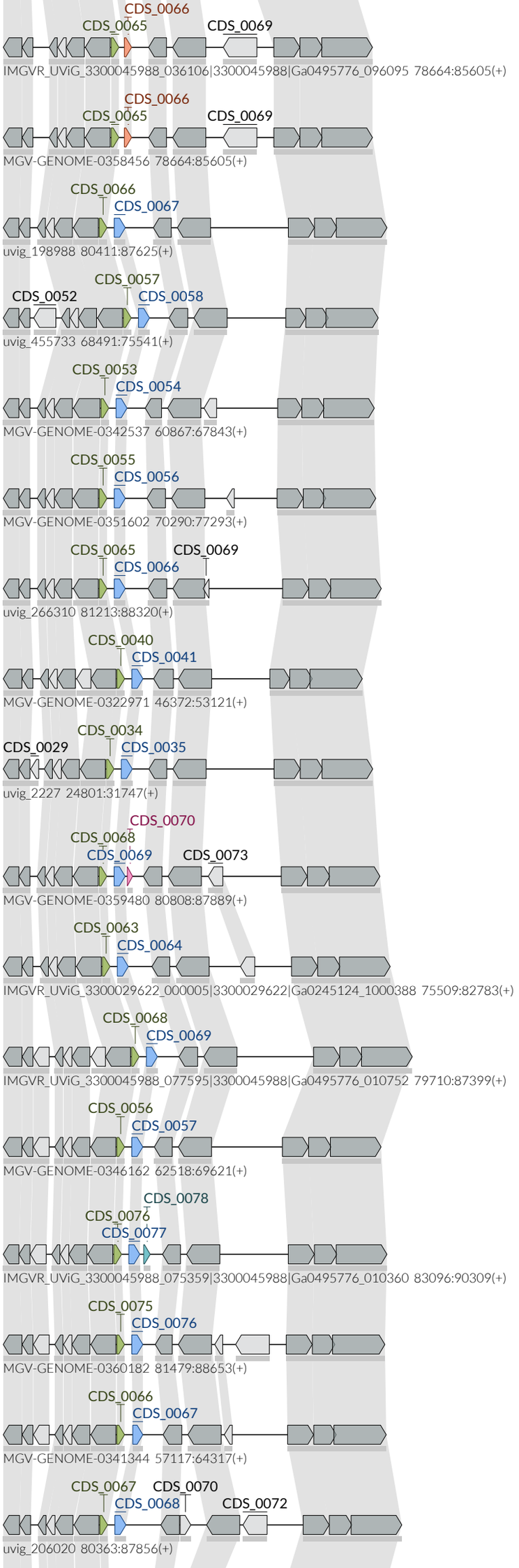
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uvig_266310 81213:88320(+)
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MGV-GENOME-0322971 46372:53121(+)
CDS_0034
CDS_0029
CDS_0035
uvig_2227 24801:31747(+)
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CDS_0068
CDS_0069
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CDS_0068
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CDS_0056
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MGV-GENOME-0346162 62518:69621(+)
CDS_0078
CDS_0076
CDS_0077
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CDS_0066
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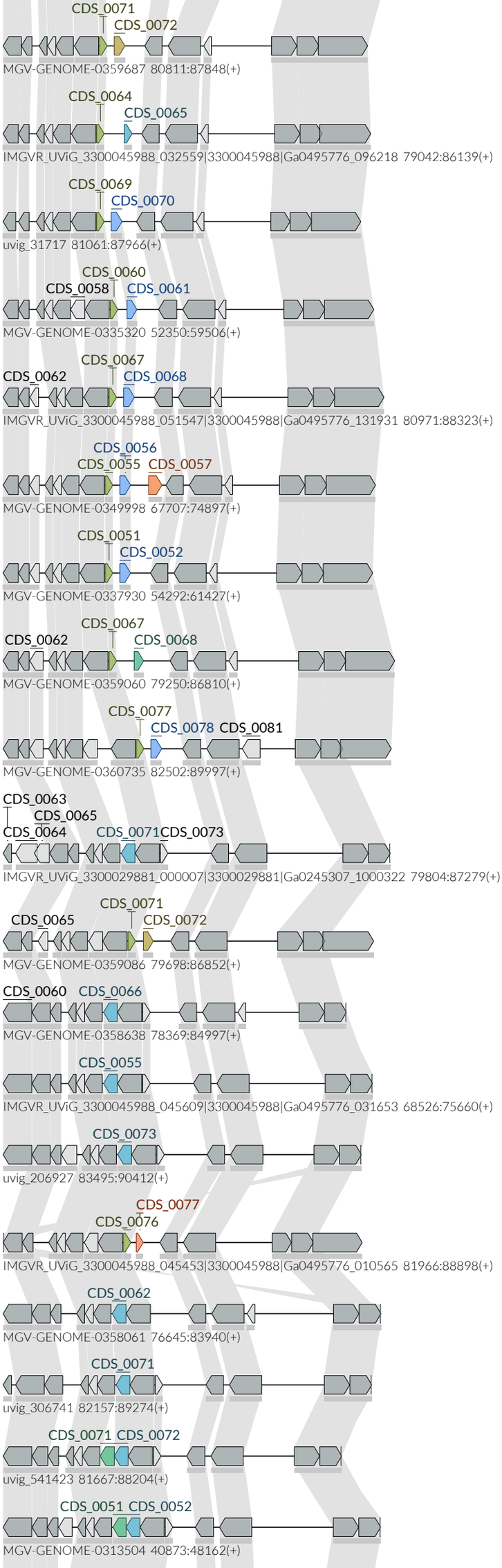
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CDS_0062
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CDS_0081
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CDS_0055
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uvig_206927 83495:90412(+)
CDS_0077
CDS_0076
IMGVR_UViG_3300045988_045453|3300045988|Ga0495776_010565 81966:88898(+)
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MGV-GENOME-0358061 76645:83940(+)
CDS_0071
uvig_306741 82157:89274(+)
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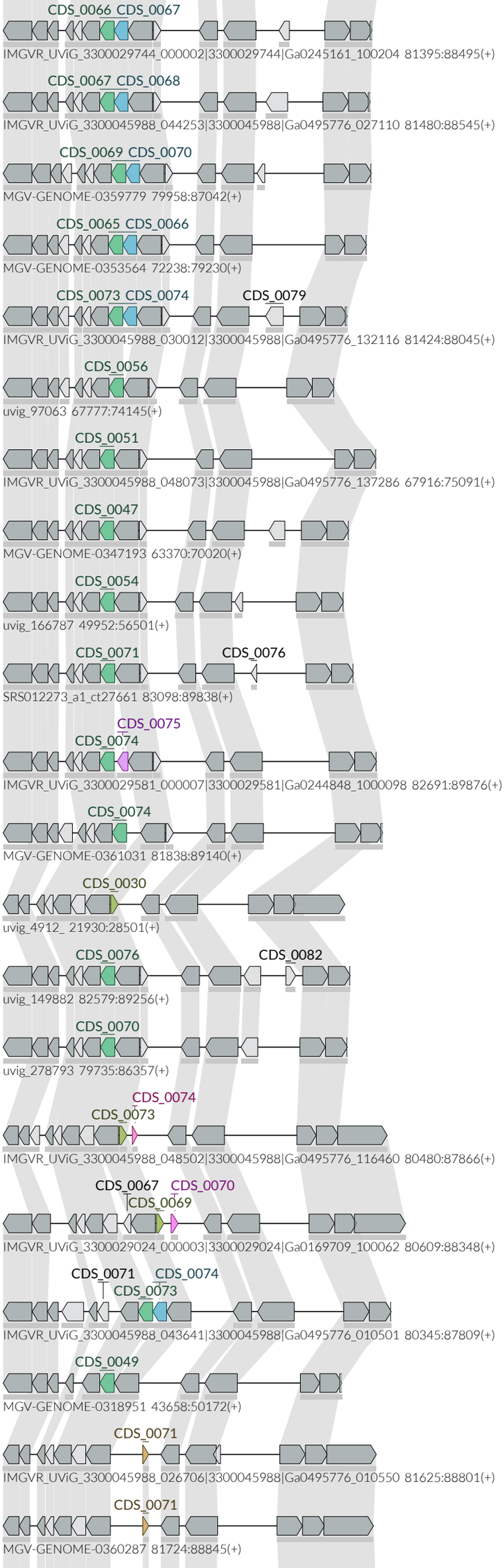
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CDS_0069 CDS_0070
MGV-GENOME-0359779 79958:87042(+)
CDS_0065 CDS_0066
MGV-GENOME-0353564 72238:79230(+)
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CDS_0079
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uvig_97063 67777:74145(+)
CDS_0051
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MGV-GENOME-0347193 63370:70020(+)
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SRS012273_a1_ct27661 83098:89838(+)
CDS_0075
CDS_0074
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CDS_0074
MGV-GENOME-0361031 81838:89140(+)
CDS_0030
uvig_4912_ 21930:28501(+)
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CDS_0082
uvig_149882 82579:89256(+)
CDS_0070
uvig_278793 79735:86357(+)
CDS_0074
CDS_0073
IMGVR_UViG_3300045988_048502|3300045988|Ga0495776_116460 80480:87866(+)
CDS_0067
CDS_0070
CDS_0069
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CDS_0074
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CDS_0049
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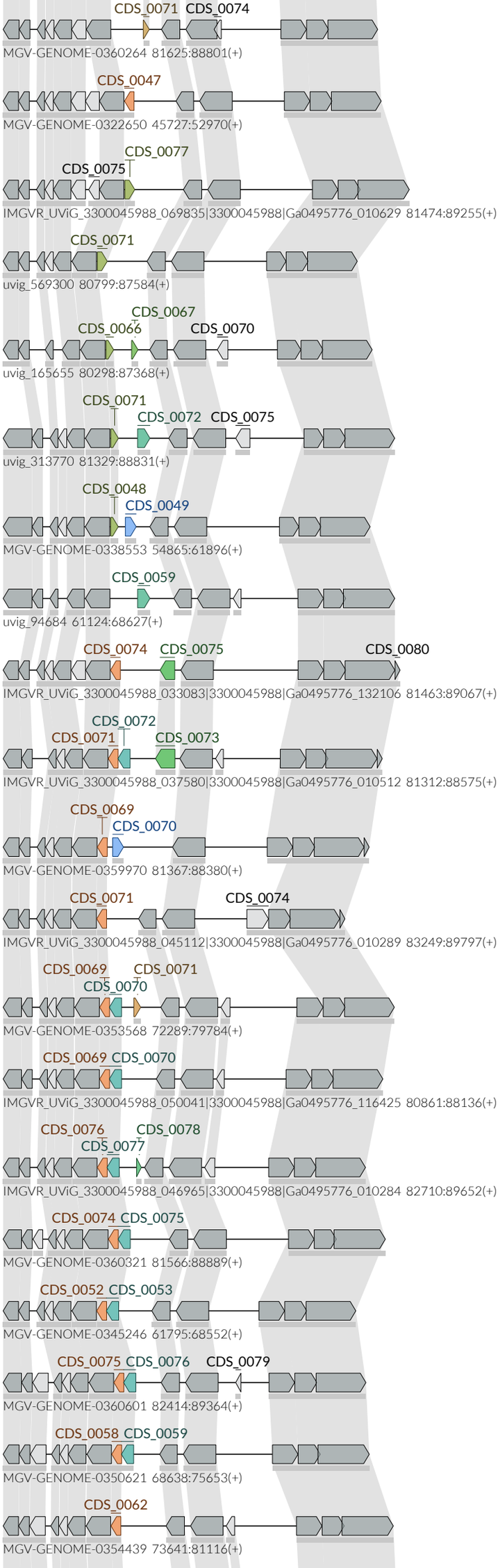
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CDS_0067
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CDS_0070
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CDS_0049
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uvig_94684 61124:68627(+)
CDS_0074 CDS_0075
CDS_0080
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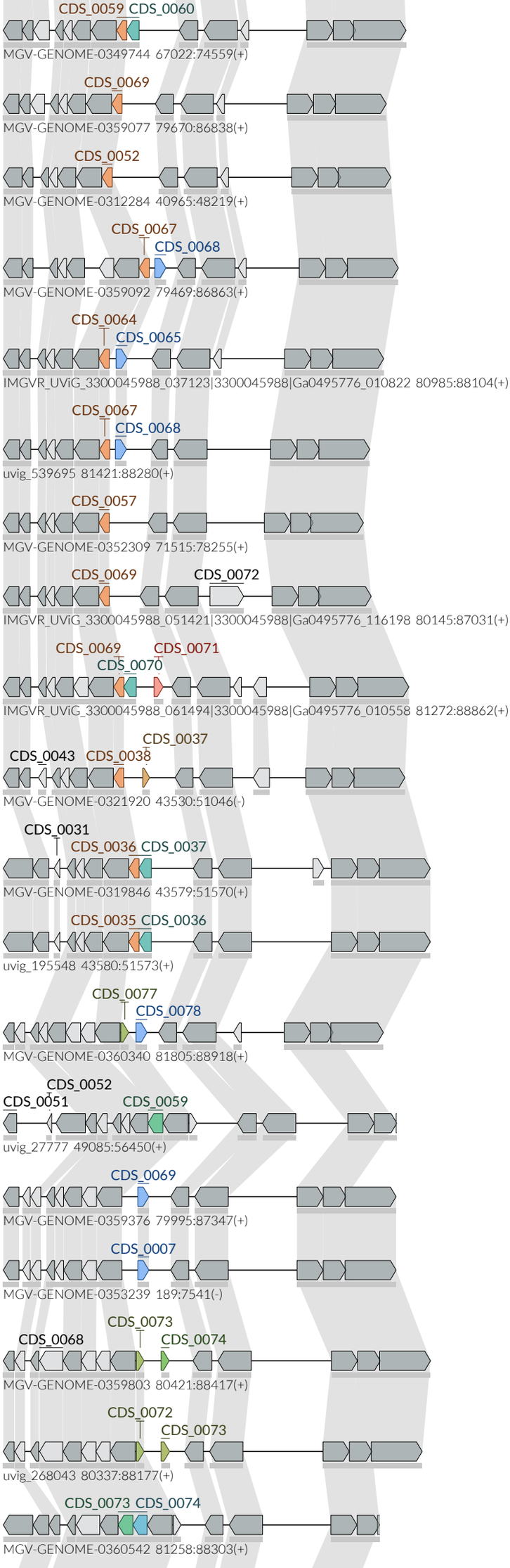
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CDS_0067
CDS_0068
MGV-GENOME-0359092 79469:86863(+)
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uvig_539695 81421:88280(+)
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CDS_0036 CDS_0037
MGV-GENOME-0319846 43579:51570(+)
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uvig_195548 43580:51573(+)
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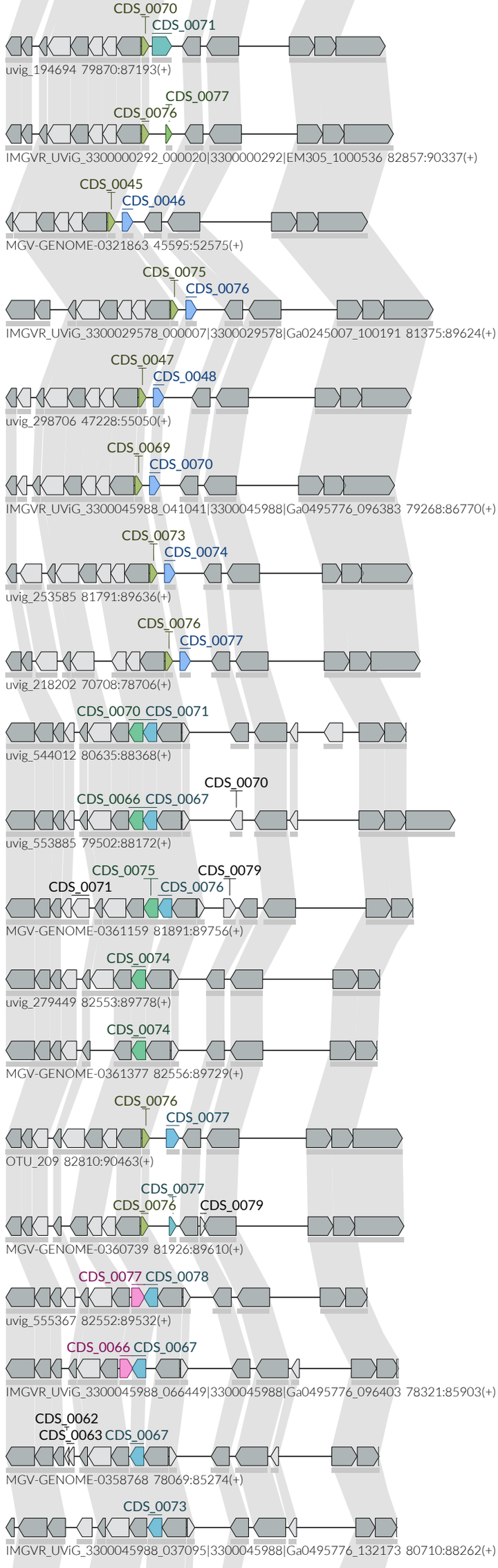
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CDS_0048
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OTU_209 82810:90463(+)
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CDS_0077 CDS_0078
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CDS_0062
CDS_0063 CDS_0067
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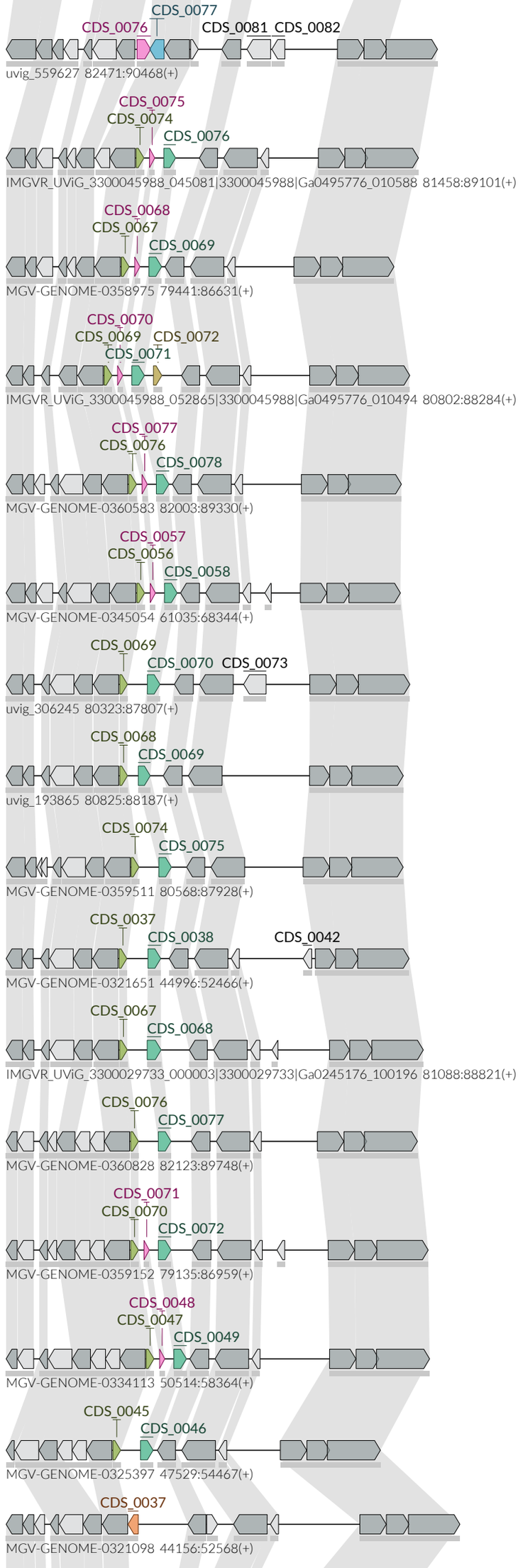
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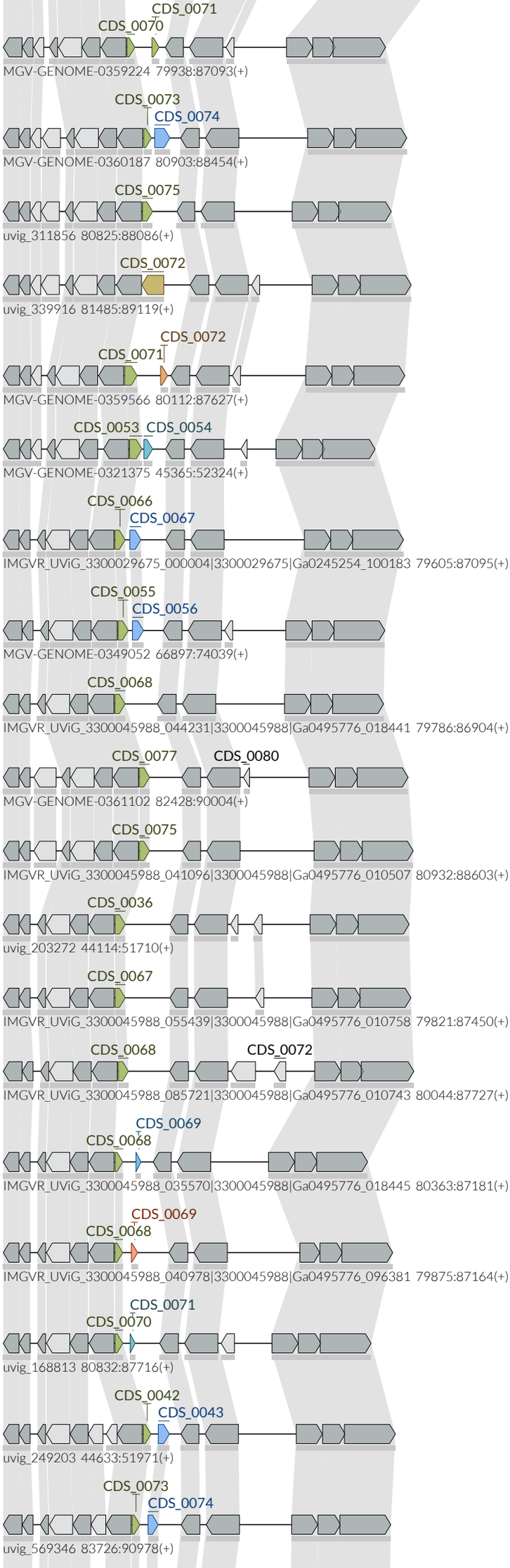
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MGV-GENOME-0321375 45365:52324(+)
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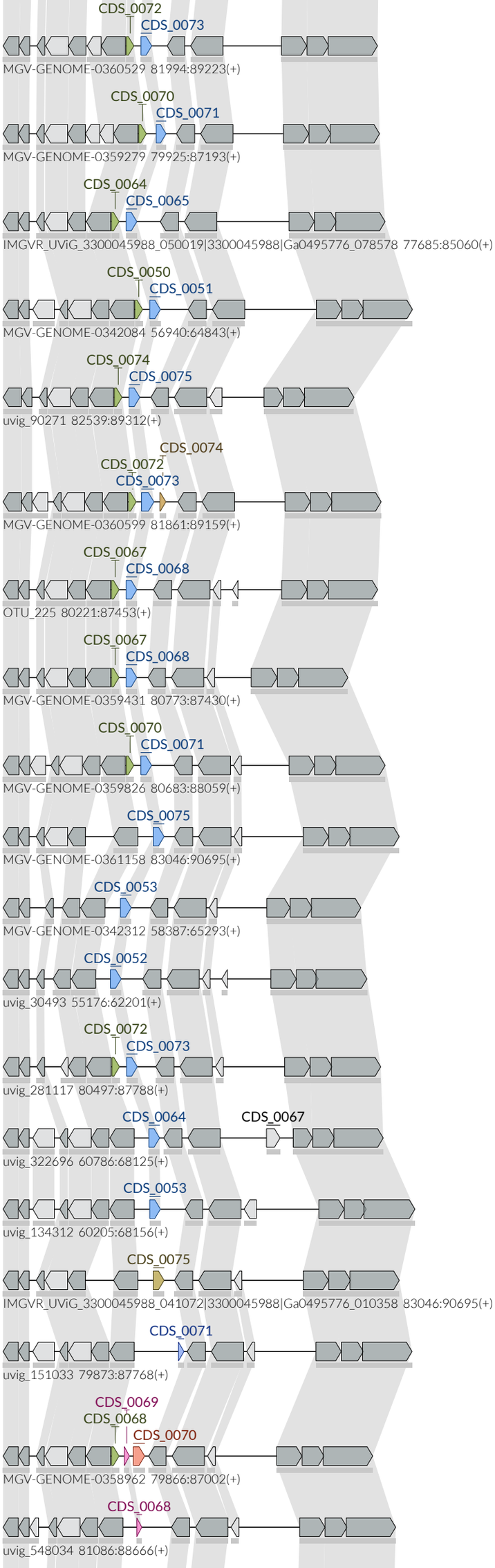
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CDS_0050
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MGV-GENOME-0342084 56940:64843(+)
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CDS_0075
uvig_90271 82539:89312(+)
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OTU_225 80221:87453(+)
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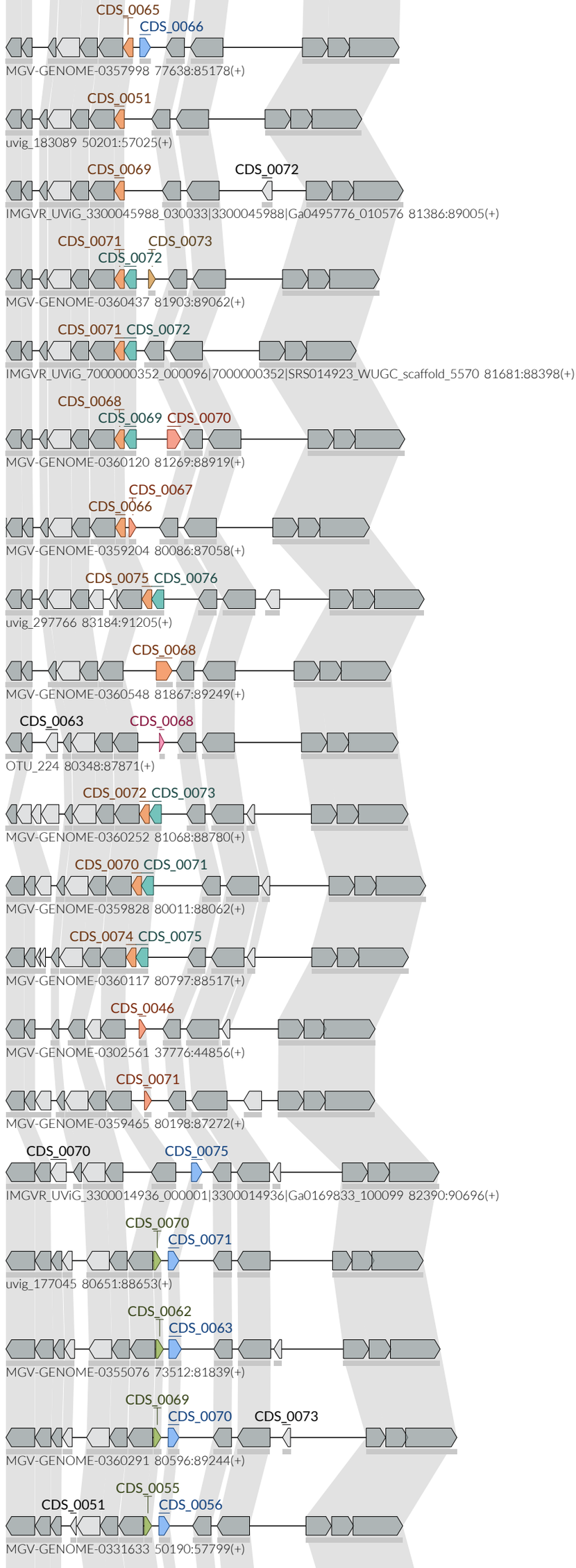
uvig_548034 81086:88666(+)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CDS_0051
uvig_183089 50201:57025(+)
CDS_0069
CDS_0072
IMGVR_UViG_3300045988_030033|3300045988|Ga0495776_010576 81386:89005(+)
CDS_0071
CDS_0073
CDS_0072
MGV-GENOME-0360437 81903:89062(+)
CDS_0071 CDS_0072
IMGVR_UViG_7000000352_000096|7000000352|SRS014923_WUGC_scaffold_5570 81681:88398(+)
CDS_0068
CDS_0069 CDS_0070
MGV-GENOME-0360120 81269:88919(+)
CDS_0067
CDS_0066
MGV-GENOME-0359204 80086:87058(+)
CDS_0075 CDS_0076
uvig_297766 83184:91205(+)
CDS_0068
MGV-GENOME-0360548 81867:89249(+)
CDS_0063
CDS_0068
OTU_224 80348:87871(+)
CDS_0072 CDS_0073
MGV-GENOME-0360252 81068:88780(+)
CDS_0070 CDS_0071
MGV-GENOME-0359828 80011:88062(+)
CDS_0074 CDS_0075
MGV-GENOME-0360117 80797:88517(+)
CDS_0046
MGV-GENOME-0302561 37776:44856(+)
CDS_0071
MGV-GENOME-0359465 80198:87272(+)
CDS_0070
CDS_0075
IMGVR_UViG_3300014936_000001|3300014936|Ga0169833_100099 82390:90696(+)
CDS_0070
CDS_0071
uvig_177045 80651:88653(+)
CDS_0062
CDS_0063
MGV-GENOME-0355076 73512:81839(+)
CDS_0069
CDS_0070
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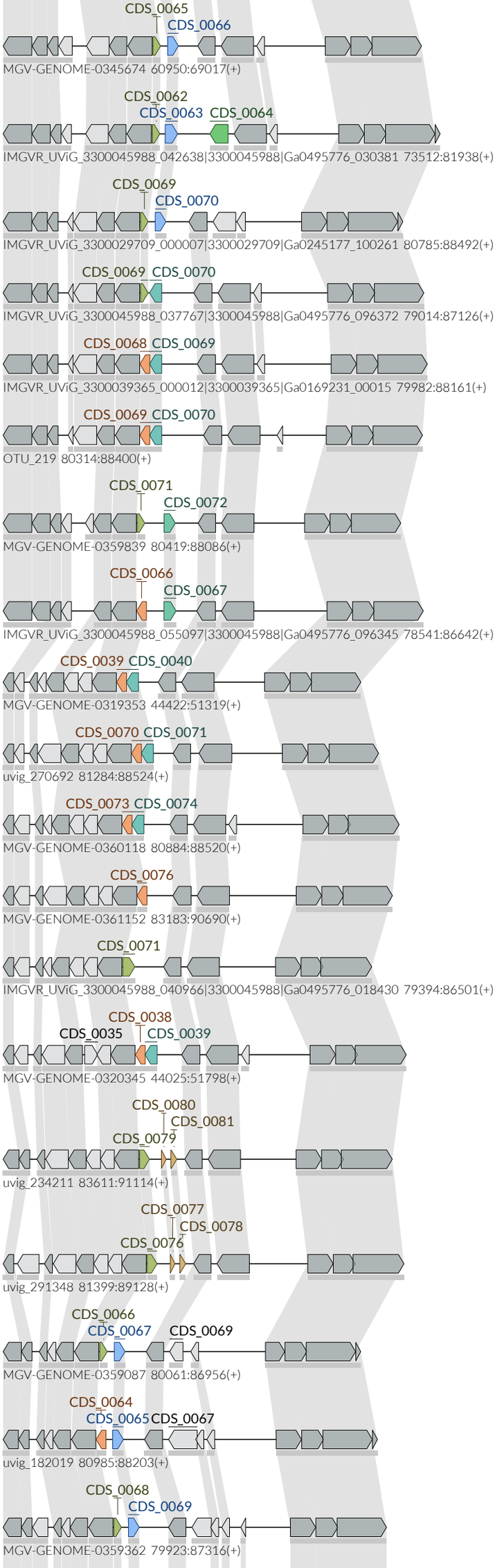
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CDS_0062
CDS_0063 CDS_0064
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CDS_0069
CDS_0070
IMGVR_UViG_3300029709_000007|3300029709|Ga0245177_100261 80785:88492(+)
CDS_0069 CDS_0070
IMGVR_UViG_3300045988_037767|3300045988|Ga0495776_096372 79014:87126(+)
CDS_0068 CDS_0069
IMGVR_UViG_3300039365_000012|3300039365|Ga0169231_00015 79982:88161(+)
CDS_0069 CDS_0070
OTU_219 80314:88400(+)
CDS_0071
CDS_0072
MGV-GENOME-0359839 80419:88086(+)
CDS_0066
CDS_0067
IMGVR_UViG_3300045988_055097|3300045988|Ga0495776_096345 78541:86642(+)
CDS_0039 CDS_0040
MGV-GENOME-0319353 44422:51319(+)
CDS_0070 CDS_0071
uvig_270692 81284:88524(+)
CDS_0073 CDS_0074
MGV-GENOME-0360118 80884:88520(+)
CDS_0076
MGV-GENOME-0361152 83183:90690(+)
CDS_0071
IMGVR_UViG_3300045988_040966|3300045988|Ga0495776_018430 79394:86501(+)
CDS_0038
CDS_0035
CDS_0039
MGV-GENOME-0320345 44025:51798(+)
CDS_0080
CDS_0081
CDS_0079
uvig_234211 83611:91114(+)
CDS_0077
CDS_0078
CDS_0076
uvig_291348 81399:89128(+)
CDS_0066
CDS_0067
CDS_0069
MGV-GENOME-0359087 80061:86956(+)
CDS_0064
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uvig_182019 80985:88203(+)
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CDS_0069
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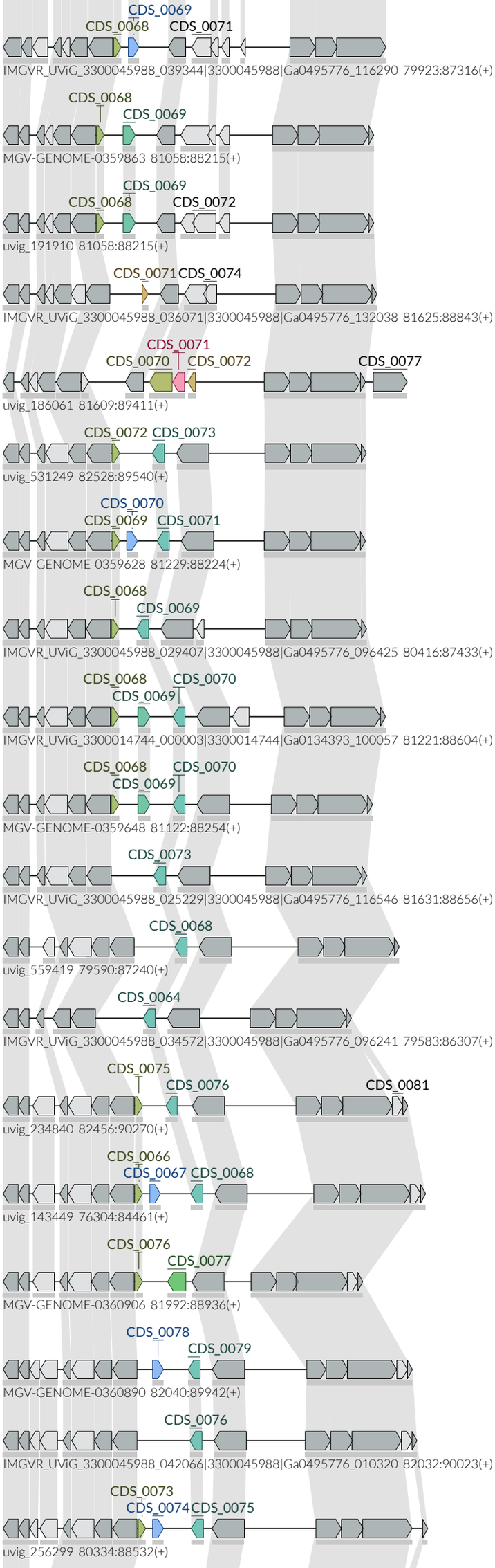
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CDS_0069
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CDS_0069
CDS_0068
CDS_0072
uvig_191910 81058:88215(+)
CDS_0071
CDS_0074
IMGVR_UViG_3300045988_036071|3300045988|Ga0495776_132038 81625:88843(+)
CDS_0071
CDS_0070
CDS_0072
CDS_0077
uvig_186061 81609:89411(+)
CDS_0072
CDS_0073
uvig_531249 82528:89540(+)
CDS_0070
CDS_0069
CDS_0071
MGV-GENOME-0359628 81229:88224(+)
CDS_0068
CDS_0069
IMGVR_UViG_3300045988_029407|3300045988|Ga0495776_096425 80416:87433(+)
CDS_0068
CDS_0070
CDS_0069
IMGVR_UViG_3300014744_000003|3300014744|Ga0134393_100057 81221:88604(+)
CDS_0068
CDS_0070
CDS_0069
MGV-GENOME-0359648 81122:88254(+)
CDS_0073
IMGVR_UViG_3300045988_025229|3300045988|Ga0495776_116546 81631:88656(+)
CDS_0068
uvig_559419 79590:87240(+)
CDS_0064
IMGVR_UViG_3300045988_034572|3300045988|Ga0495776_096241 79583:86307(+)
CDS_0075
CDS_0076
CDS_0081
uvig_234840 82456:90270(+)
CDS_0066
CDS_0067
CDS_0068
uvig_143449 76304:84461(+)
CDS_0076
CDS_0077
MGV-GENOME-0360906 81992:88936(+)
CDS_0078
CDS_0079
MGV-GENOME-0360890 82040:89942(+)
CDS_0076
IMGVR_UViG_3300045988_042066|3300045988|Ga0495776_010320 82032:90023(+)
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CDS_0074
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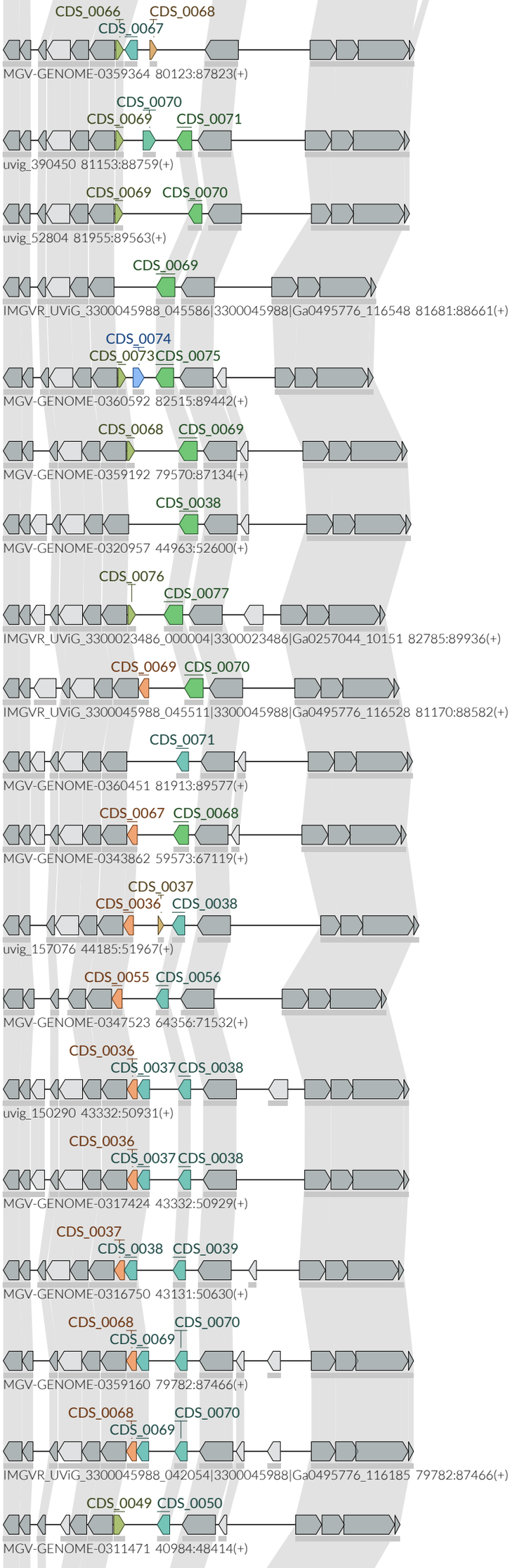
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CDS_0068
CDS_0067
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CDS_0070
CDS_0069
CDS_0071
uvig_390450 81153:88759(+)
CDS_0069
CDS_0070
uvig_52804 81955:89563(+)
CDS_0069
IMGVR_UViG_3300045988_045586|3300045988|Ga0495776_116548 81681:88661(+)
CDS_0074
CDS_0073
CDS_0075
MGV-GENOME-0360592 82515:89442(+)
CDS_0068
CDS_0069
MGV-GENOME-0359192 79570:87134(+)
CDS_0038
MGV-GENOME-0320957 44963:52600(+)
CDS_0076
CDS_0077
IMGVR_UViG_3300023486_000004|3300023486|Ga0257044_10151 82785:89936(+)
CDS_0069
CDS_0070
IMGVR_UViG_3300045988_045511|3300045988|Ga0495776_116528 81170:88582(+)
CDS_0071
MGV-GENOME-0360451 81913:89577(+)
CDS_0067
CDS_0068
MGV-GENOME-0343862 59573:67119(+)
CDS_0037
CDS_0036
CDS_0038
uvig_157076 44185:51967(+)
CDS_0055
CDS_0056
MGV-GENOME-0347523 64356:71532(+)
CDS_0036
CDS_0037
CDS_0038
uvig_150290 43332:50931(+)
CDS_0036
CDS_0037
CDS_0038
MGV-GENOME-0317424 43332:50929(+)
CDS_0037
CDS_0038
CDS_0039
MGV-GENOME-0316750 43131:50630(+)
CDS_0068
CDS_0070
CDS_0069
MGV-GENOME-0359160 79782:87466(+)
CDS_0068
CDS_0070
CDS_0069
IMGVR_UViG_3300045988_042054|3300045988|Ga0495776_116185 79782:87466(+)
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CDS_0050
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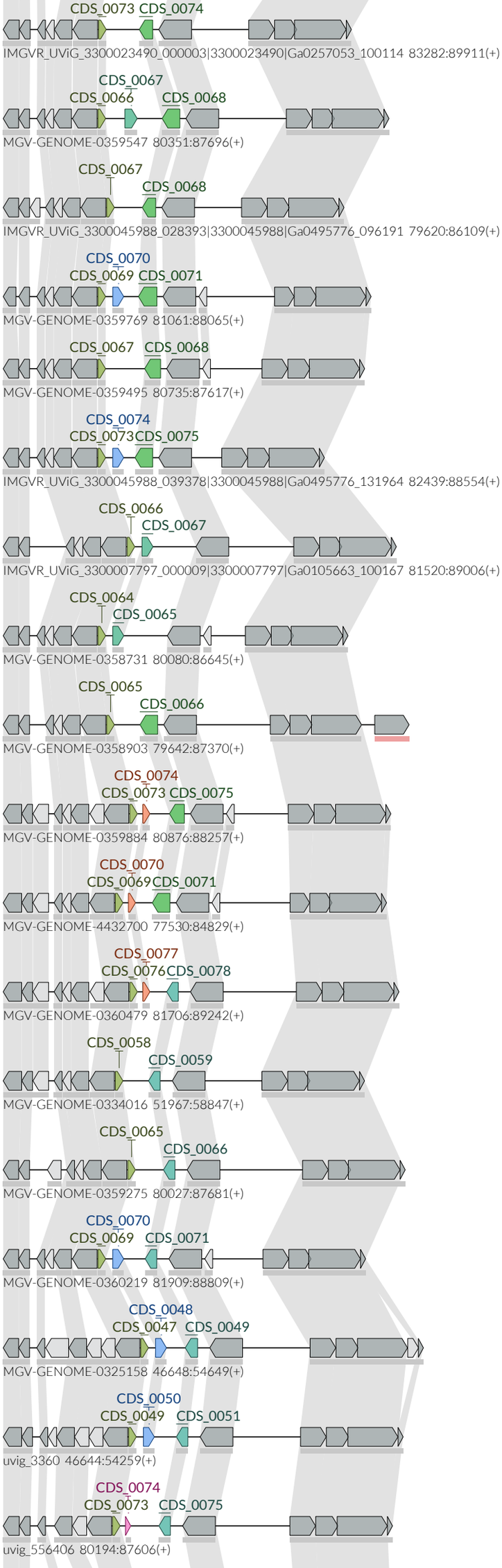
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CDS_0066 CDS_0068
MGV-GENOME-0359547 80351:87696(+)
CDS_0067
CDS_0068
IMGVR_UViG_3300045988_028393|3300045988|Ga0495776_096191 79620:86109(+)
CDS_0070
CDS_0069 CDS_0071
MGV-GENOME-0359769 81061:88065(+)
CDS_0067 CDS_0068
MGV-GENOME-0359495 80735:87617(+)
CDS_0074
CDS_0073 CDS_0075
IMGVR_UViG_3300045988_039378|3300045988|Ga0495776_131964 82439:88554(+)
CDS_0066
CDS_0067
IMGVR_UViG_3300007797_000009|3300007797|Ga0105663_100167 81520:89006(+)
CDS_0064
CDS_0065
MGV-GENOME-0358731 80080:86645(+)
CDS_0065
CDS_0066
MGV-GENOME-0358903 79642:87370(+)
CDS_0074
CDS_0073 CDS_0075
MGV-GENOME-0359884 80876:88257(+)
CDS_0070
CDS_0069 CDS_0071
MGV-GENOME-4432700 77530:84829(+)
CDS_0077
CDS_0076 CDS_0078
MGV-GENOME-0360479 81706:89242(+)
CDS_0058
CDS_0059
MGV-GENOME-0334016 51967:58847(+)
CDS_0065
CDS_0066
MGV-GENOME-0359275 80027:87681(+)
CDS_0070
CDS_0069 CDS_0071
MGV-GENOME-0360219 81909:88809(+)
CDS_0048
CDS_0047 CDS_0049
MGV-GENOME-0325158 46648:54649(+)
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uvig_3360 46644:54259(+)
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CDS_0073 CDS_0075
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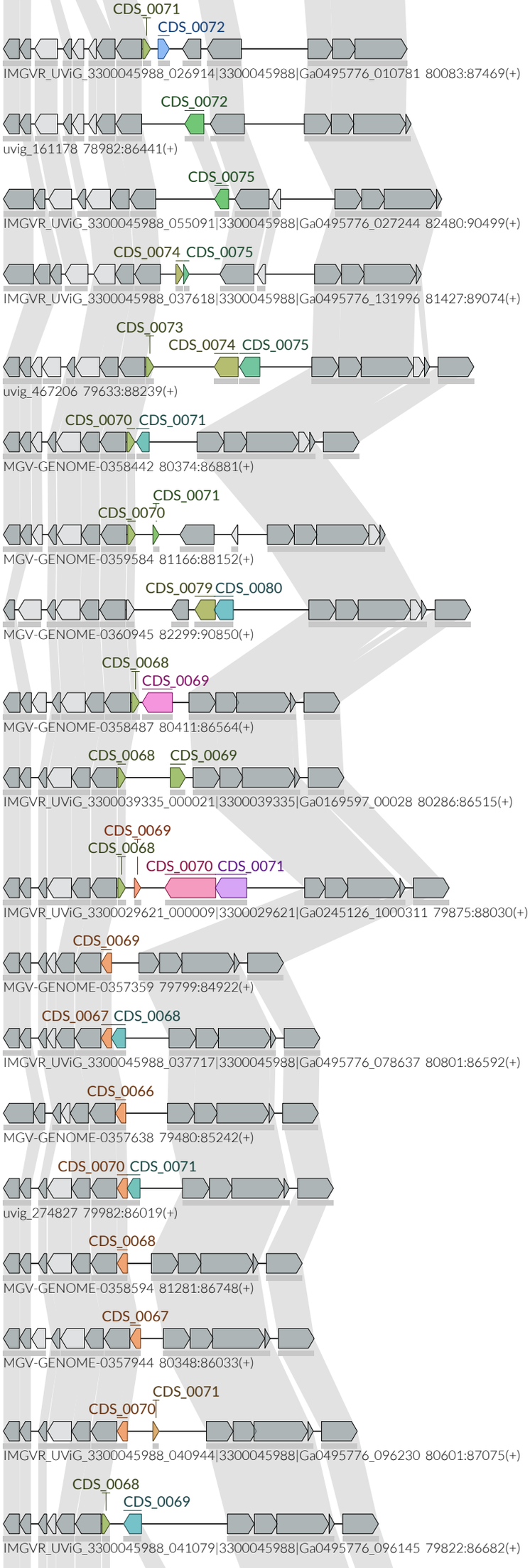
CDS_0071
CDS_0072
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CDS_0072
uvig_161178 78982:86441(+)
CDS_0075
IMGVR_UViG_3300045988_055091|3300045988|Ga0495776_027244 82480:90499(+)
CDS_0074 CDS_0075
IMGVR_UViG_3300045988_037618|3300045988|Ga0495776_131996 81427:89074(+)
CDS_0073
CDS_0074 CDS_0075
uvig_467206 79633:88239(+)
CDS_0070 CDS_0071
MGV-GENOME-0358442 80374:86881(+)
CDS_0071
CDS_0070
MGV-GENOME-0359584 81166:88152(+)
CDS_0079 CDS_0080
MGV-GENOME-0360945 82299:90850(+)
CDS_0068
CDS_0069
MGV-GENOME-0358487 80411:86564(+)
CDS_0068 CDS_0069
IMGVR_UViG_3300039335_000021|3300039335|Ga0169597_00028 80286:86515(+)
CDS_0069
CDS_0068
CDS_0070 CDS_0071
IMGVR_UViG_3300029621_000009|3300029621|Ga0245126_1000311 79875:88030(+)
CDS_0069
MGV-GENOME-0357359 79799:84922(+)
CDS_0067 CDS_0068
IMGVR_UViG_3300045988_037717|3300045988|Ga0495776_078637 80801:86592(+)
CDS_0066
MGV-GENOME-0357638 79480:85242(+)
CDS_0070 CDS_0071
uvig_274827 79982:86019(+)
CDS_0068
MGV-GENOME-0358594 81281:86748(+)
CDS_0067
MGV-GENOME-0357944 80348:86033(+)
CDS_0071
CDS_0070
IMGVR_UViG_3300045988_040944|3300045988|Ga0495776_096230 80601:87075(+)
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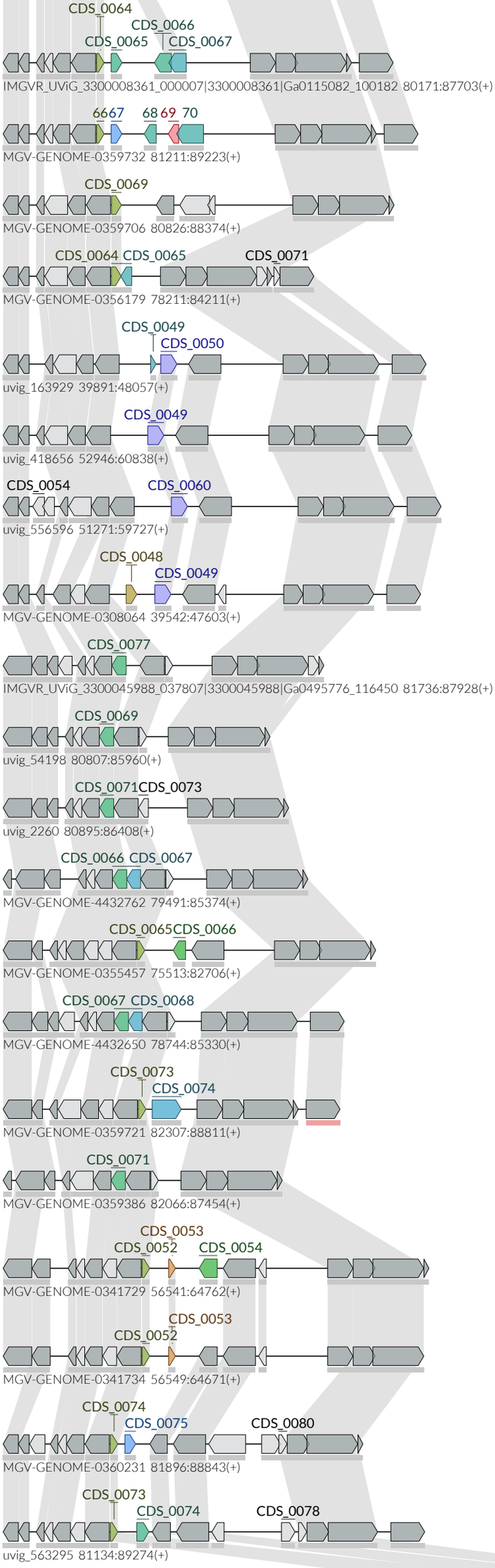
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CDS_0067
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66
67
68
69
70
MGV-GENOME-0359732 81211:89223(+)
CDS_0069
MGV-GENOME-0359706 80826:88374(+)
CDS_0064
CDS_0065
CDS_0071
MGV-GENOME-0356179 78211:84211(+)
CDS_0049
CDS_0050
uvig_163929 39891:48057(+)
CDS_0049
uvig_418656 52946:60838(+)
CDS_0054
CDS_0060
uvig_556596 51271:59727(+)
CDS_0048
CDS_0049
MGV-GENOME-0308064 39542:47603(+)
CDS_0077
IMGVR_UViG_3300045988_037807|3300045988|Ga0495776_116450 81736:87928(+)
CDS_0069
uvig_54198 80807:85960(+)
CDS_0071
CDS_0073
uvig_2260 80895:86408(+)
CDS_0066
CDS_0067
MGV-GENOME-4432762 79491:85374(+)
CDS_0065
CDS_0066
MGV-GENOME-0355457 75513:82706(+)
CDS_0067
CDS_0068
MGV-GENOME-4432650 78744:85330(+)
CDS_0073
CDS_0074
MGV-GENOME-0359721 82307:88811(+)
CDS_0071
MGV-GENOME-0359386 82066:87454(+)
CDS_0053
CDS_0052
CDS_0054
MGV-GENOME-0341729 56541:64762(+)
CDS_0053
CDS_0052
MGV-GENOME-0341734 56549:64671(+)
CDS_0074
CDS_0075
CDS_0080
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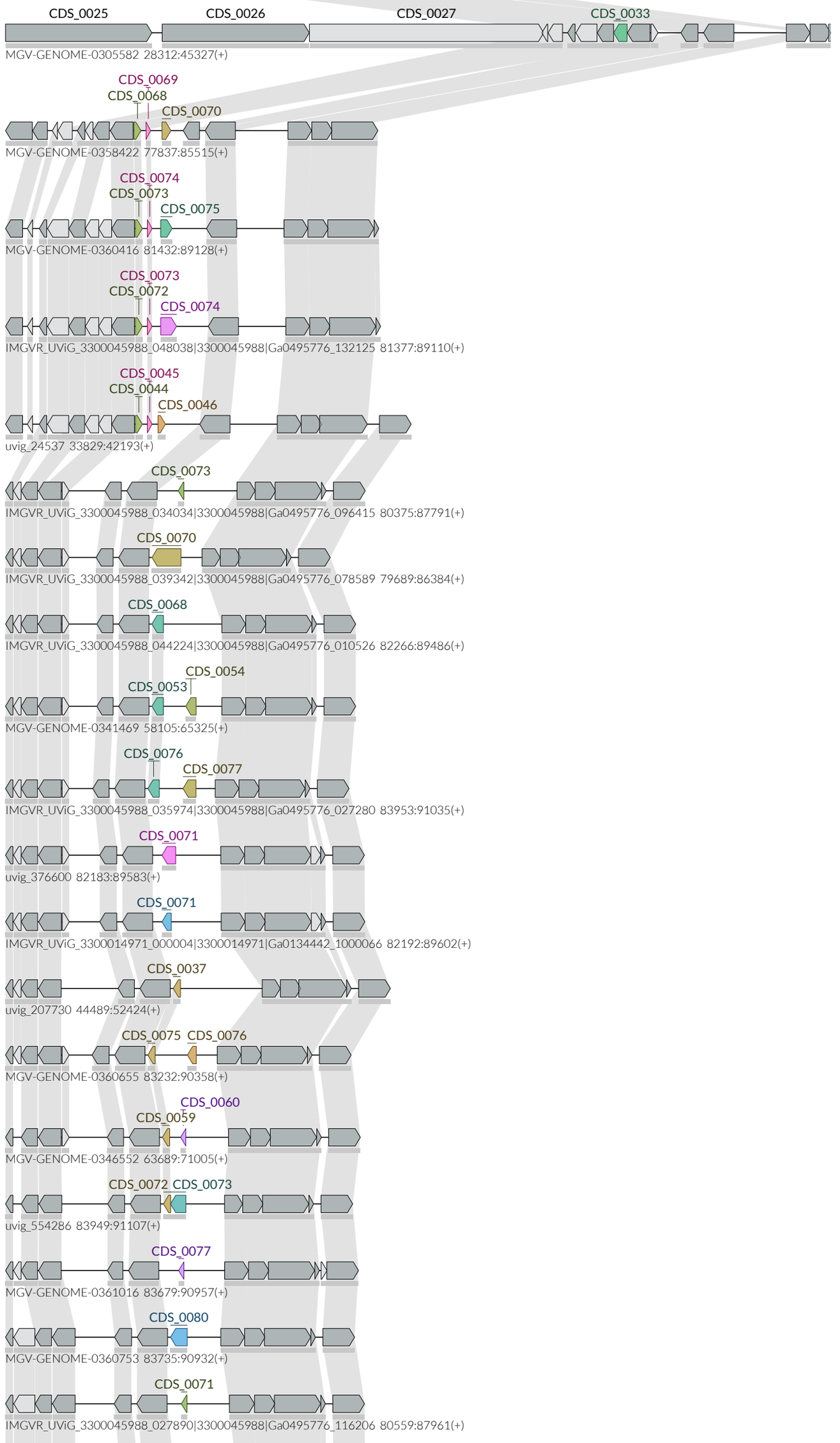
CDS_0074
CDS_0078
uvig_563295 81134:89274(+)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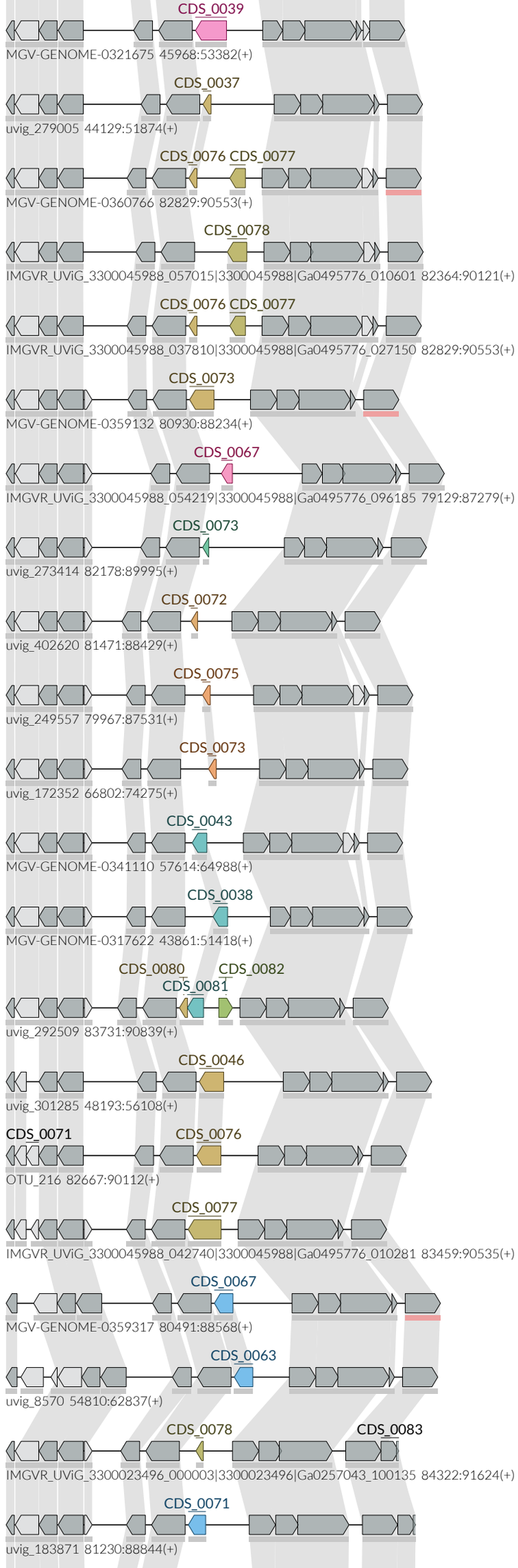
CDS_0026
CDS_0027
CDS_0033
MGV-GENOME-0305582 28312:45327(+)
CDS_0069
CDS_0068
CDS_0070
MGV-GENOME-0358422 77837:85515(+)
CDS_0074
CDS_0073
CDS_0075
MGV-GENOME-0360416 81432:89128(+)
CDS_0073
CDS_0072
CDS_0074
IMGVR_UViG_3300045988_048038|3300045988|Ga0495776_132125 81377:89110(+)
CDS_0045
CDS_0044
CDS_0046
uvig_24537 33829:42193(+)
CDS_0073
IMGVR_UViG_3300045988_034034|3300045988|Ga0495776_096415 80375:87791(+)
CDS_0070
IMGVR_UViG_3300045988_039342|3300045988|Ga0495776_078589 79689:86384(+)
CDS_0068
IMGVR_UViG_3300045988_044224|3300045988|Ga0495776_010526 82266:89486(+)
CDS_0054
CDS_0053
MGV-GENOME-0341469 58105:65325(+)
CDS_0076
CDS_0077
IMGVR_UViG_3300045988_035974|3300045988|Ga0495776_027280 83953:91035(+)
CDS_0071
uvig_376600 82183:89583(+)
CDS_0071
IMGVR_UViG_3300014971_000004|3300014971|Ga0134442_1000066 82192:89602(+)
CDS_0037
uvig_207730 44489:52424(+)
CDS_0075
CDS_0076
MGV-GENOME-0360655 83232:90358(+)
CDS_0060
CDS_0059
MGV-GENOME-0346552 63689:71005(+)
CDS_0072
CDS_0073
uvig_554286 83949:91107(+)
CDS_0077
MGV-GENOME-0361016 83679:90957(+)
CDS_0080
MGV-GENOME-0360753 83735:90932(+)
CDS_0071
IMGVR_UViG_3300045988_027890|3300045988|Ga0495776_116206 80559:87961(+)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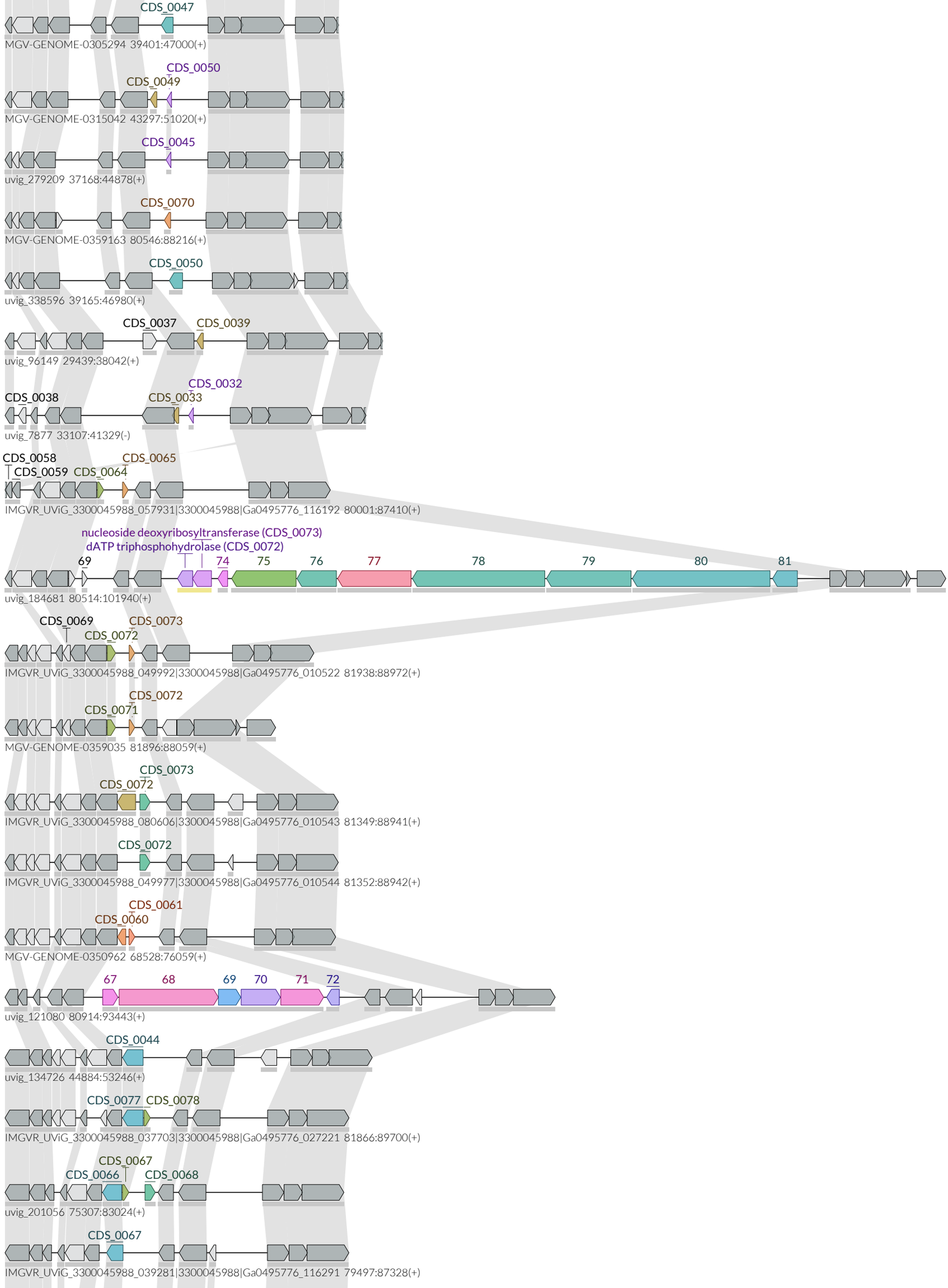
MGV-GENOME-0321675 45968:53382(+)
CDS_0037
uvig_279005 44129:51874(+)
CDS_0076 CDS_0077
MGV-GENOME-0360766 82829:90553(+)
CDS_0078
IMGVR_UViG_3300045988_057015|3300045988|Ga0495776_010601 82364:90121(+)
CDS_0076 CDS_0077
IMGVR_UViG_3300045988_037810|3300045988|Ga0495776_027150 82829:90553(+)
CDS_0073
MGV-GENOME-0359132 80930:88234(+)
CDS_0067
IMGVR_UViG_3300045988_054219|3300045988|Ga0495776_096185 79129:87279(+)
CDS_0073
uvig_273414 82178:89995(+)
CDS_0072
uvig_402620 81471:88429(+)
CDS_0075
uvig_249557 79967:87531(+)
CDS_0073
uvig_172352 66802:74275(+)
CDS_0043
MGV-GENOME-0341110 57614:64988(+)
CDS_0038
MGV-GENOME-0317622 43861:51418(+)
CDS_0080
CDS_0082
CDS_0081
uvig_292509 83731:90839(+)
CDS_0046
uvig_301285 48193:56108(+)
CDS_0071
CDS_0076
OTU_216 82667:90112(+)
CDS_0077
IMGVR_UViG_3300045988_042740|3300045988|Ga0495776_010281 83459:90535(+)
CDS_0067
MGV-GENOME-0359317 80491:88568(+)
CDS_0063
uvig_8570 54810:62837(+)
CDS_0078
CDS_0083
IMGVR_UViG_3300023496_000003|3300023496|Ga0257043_100135 84322:91624(+)
CDS_0071
uvig_183871 81230:88844(+)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CDS_0050
CDS_0049
MGV-GENOME-0315042 43297:51020(+)
CDS_0045
uvig_279209 37168:44878(+)
CDS_0070
MGV-GENOME-0359163 80546:88216(+)
CDS_0050
uvig_338596 39165:46980(+)
CDS_0037
CDS_0039
uvig_96149 29439:38042(+)
CDS_0032
CDS_0038
CDS_0033
uvig_7877 33107:41329(-)
CDS_0058
CDS_0065
CDS_0059
CDS_0064
IMGVR_UViG_3300045988_057931|3300045988|Ga0495776_116192 80001:87410(+)
nucleoside deoxyribosyltransferase (CDS_0073)
dATP triphosphohydrolase (CDS_0072)
69
74
75
76
77
78
79
80
81
uvig_184681 80514:101940(+)
CDS_0069
CDS_0073
CDS_0072
IMGVR_UViG_3300045988_049992|3300045988|Ga0495776_010522 81938:88972(+)
CDS_0072
CDS_0071
MGV-GENOME-0359035 81896:88059(+)
CDS_0073
CDS_0072
IMGVR_UViG_3300045988_080606|3300045988|Ga0495776_010543 81349:88941(+)
CDS_0072
IMGVR_UViG_3300045988_049977|3300045988|Ga0495776_010544 81352:88942(+)
CDS_0061
CDS_0060
MGV-GENOME-0350962 68528:76059(+)
67
68
69
70
71
72
uvig_121080 80914:93443(+)
CDS_0044
uvig_134726 44884:53246(+)
CDS_0077
CDS_0078
IMGVR_UViG_3300045988_037703|3300045988|Ga0495776_027221 81866:89700(+)
CDS_0067
CDS_0066
CDS_0068
uvig_201056 75307:83024(+)
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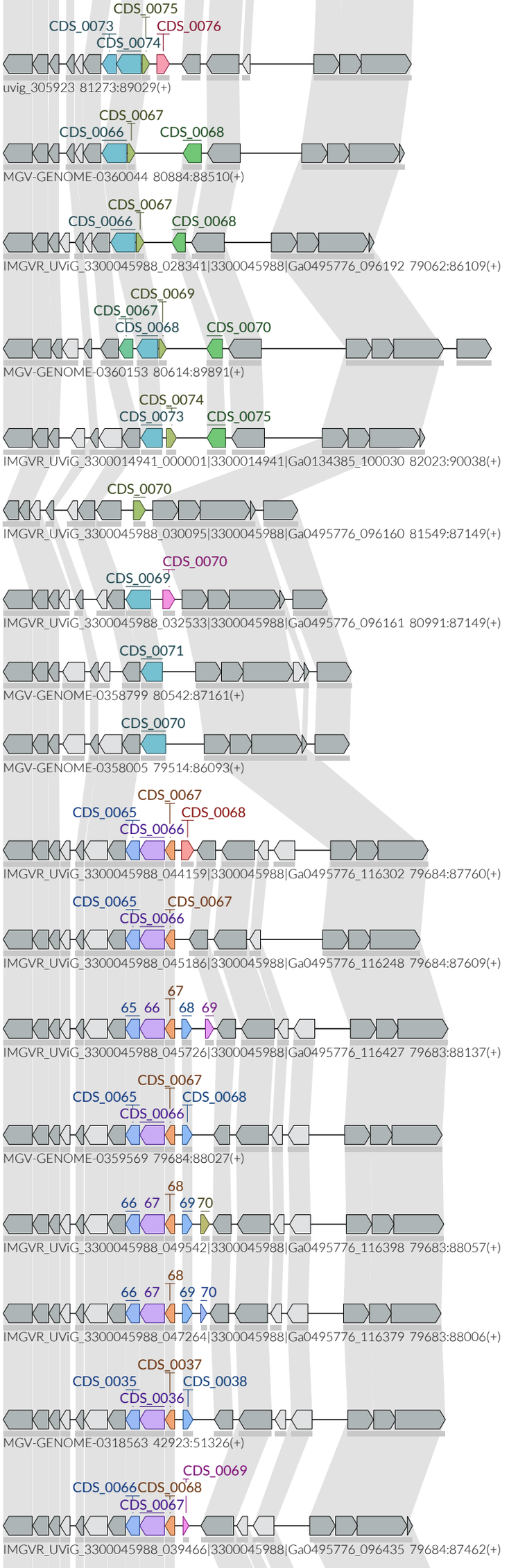
CDS_0075
CDS_0073
CDS_0076
CDS_0074
uvig_305923 81273:89029(+)
CDS_0067
CDS_0066
CDS_0068
MGV-GENOME-0360044 80884:88510(+)
CDS_0067
CDS_0066
CDS_0068
IMGVR_UViG_3300045988_028341|3300045988|Ga0495776_096192 79062:86109(+)
CDS_0069
CDS_0067
CDS_0068
CDS_0070
MGV-GENOME-0360153 80614:89891(+)
CDS_0074
CDS_0073
CDS_0075
IMGVR_UViG_3300014941_000001|3300014941|Ga0134385_100030 82023:90038(+)
CDS_0070
IMGVR_UViG_3300045988_030095|3300045988|Ga0495776_096160 81549:87149(+)
CDS_0070
CDS_0069
IMGVR_UViG_3300045988_032533|3300045988|Ga0495776_096161 80991:87149(+)
CDS_0071
MGV-GENOME-0358799 80542:87161(+)
CDS_0070
MGV-GENOME-0358005 79514:86093(+)
CDS_0067
CDS_0065
CDS_0068
CDS_0066
IMGVR_UViG_3300045988_044159|3300045988|Ga0495776_116302 79684:87760(+)
CDS_0065
CDS_0067
CDS_0066
IMGVR_UViG_3300045988_045186|3300045988|Ga0495776_116248 79684:87609(+)
67
65
66
68
69
IMGVR_UViG_3300045988_045726|3300045988|Ga0495776_116427 79683:88137(+)
CDS_0067
CDS_0065
CDS_0068
CDS_0066
MGV-GENOME-0359569 79684:88027(+)
68
66
67
69
70
IMGVR_UViG_3300045988_049542|3300045988|Ga0495776_116398 79683:88057(+)
68
66
67
69
70
IMGVR_UViG_3300045988_047264|3300045988|Ga0495776_116379 79683:88006(+)
CDS_0037
CDS_0035
CDS_0038
CDS_0036
MGV-GENOME-0318563 42923:51326(+)
CDS_0069
CDS_0066
CDS_0068
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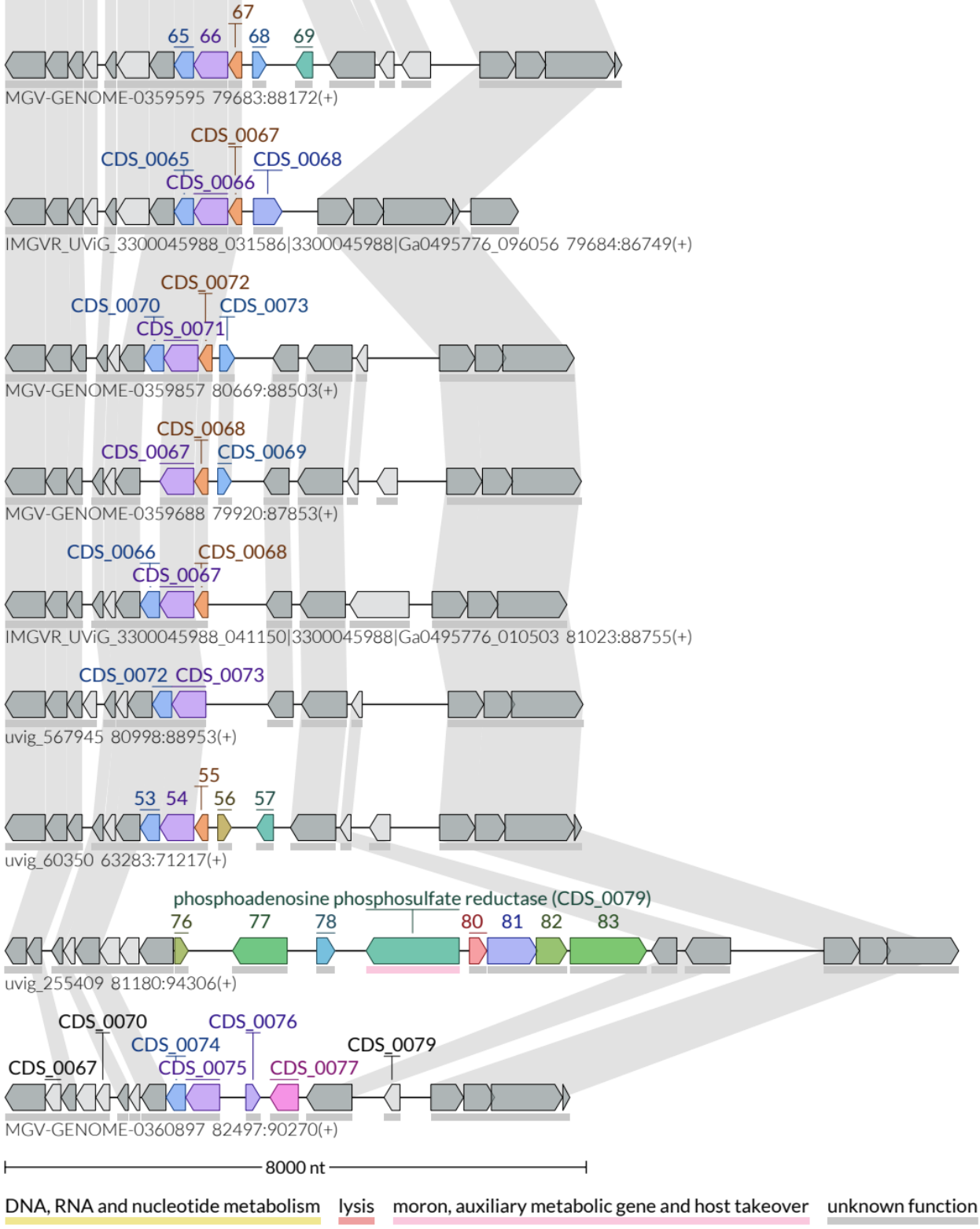
67
65 66 68 69
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CDS_0067
CDS_0065 CDS_0068
CDS_0066
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CDS_0072
CDS_0070 CDS_0073
CDS_0071
MGV-GENOME-0359857 80669:88503(+)
CDS_0068
CDS_0067 CDS_0069
MGV-GENOME-0359688 79920:87853(+)
CDS_0066 CDS_0068
CDS_0067
IMGVR_UViG_3300045988_041150|3300045988|Ga0495776_010503 81023:88755(+)
CDS_0072 CDS_0073
uvig_567945 80998:88953(+)
55
53 54 56 57
uvig_60350 63283:71217(+)
phosphoadenosine phosphosulfate reductase (CDS_0079)
76 77 78 80 81 82 83
uvig_255409 81180:94306(+)
CDS_0070 CDS_0076
CDS_0074 CDS_0079
CDS_0067 CDS_0075 CDS_0077
MGV-GENOME-0360897 82497:90270(+)
8000 nt
DNA, RNA and nucleotide metabolism
lysis
moron, auxiliary metabolic gene and host takeover
unknown function