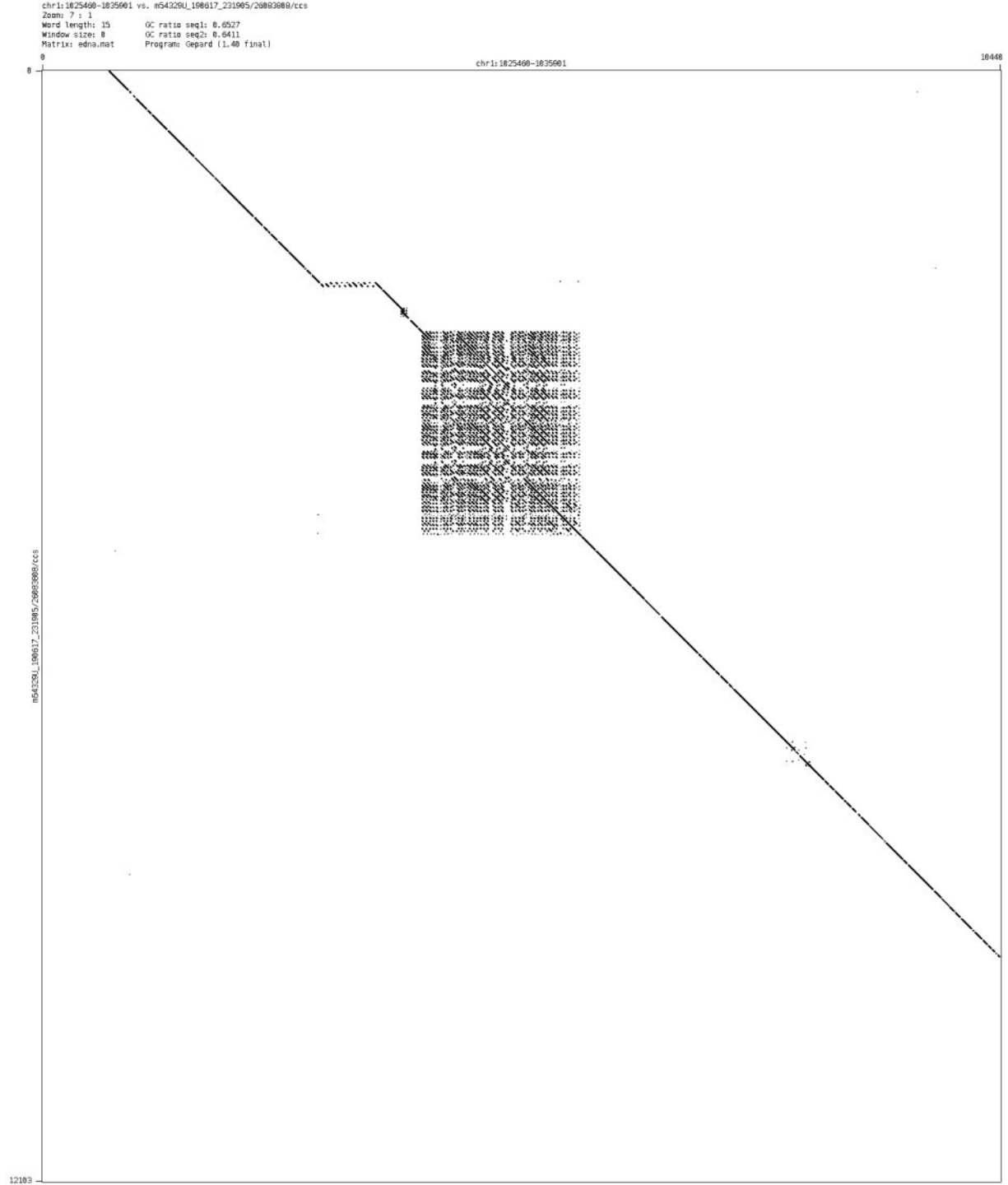
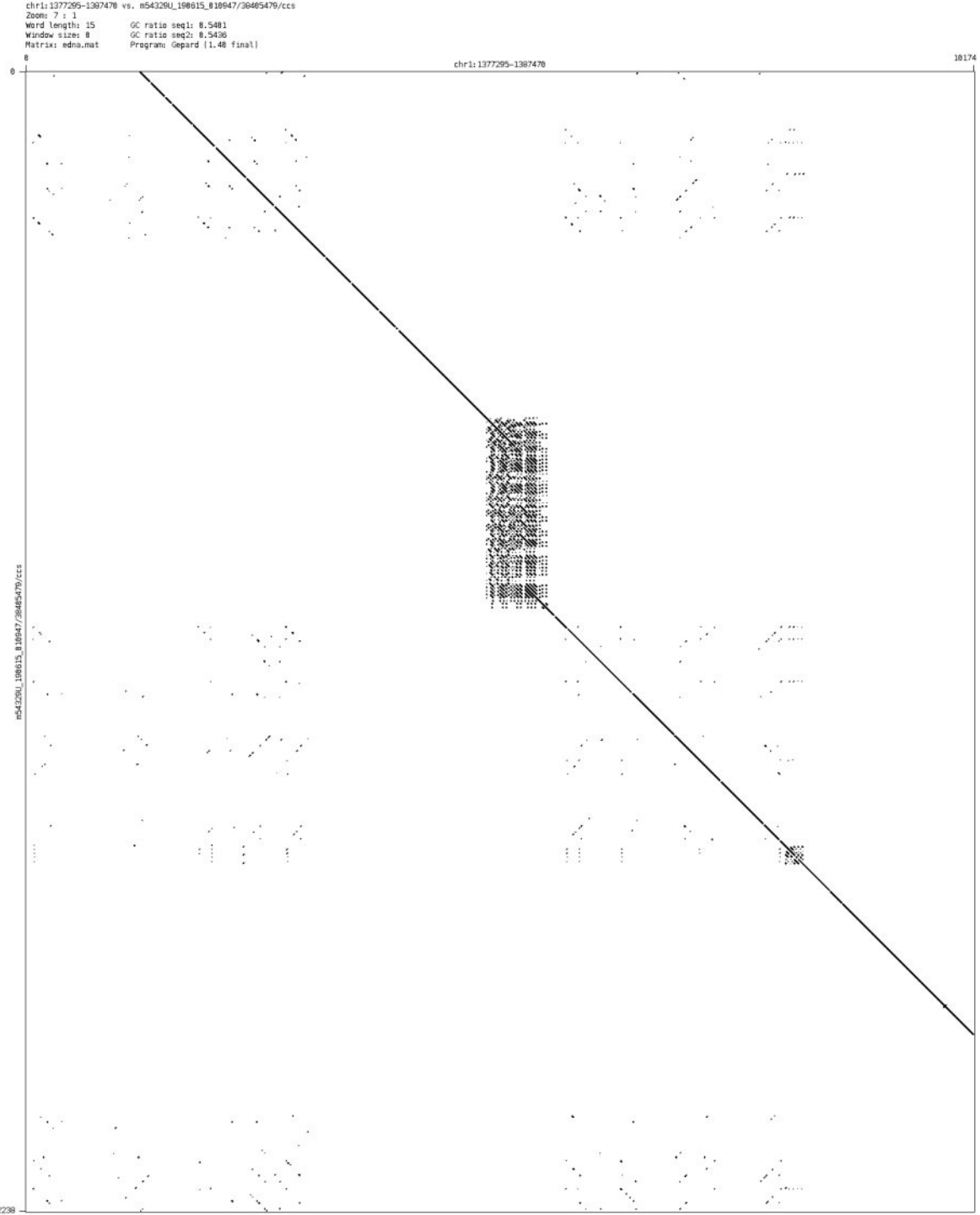


Dotplot used for manually inspection of  
CSVs from HG00733

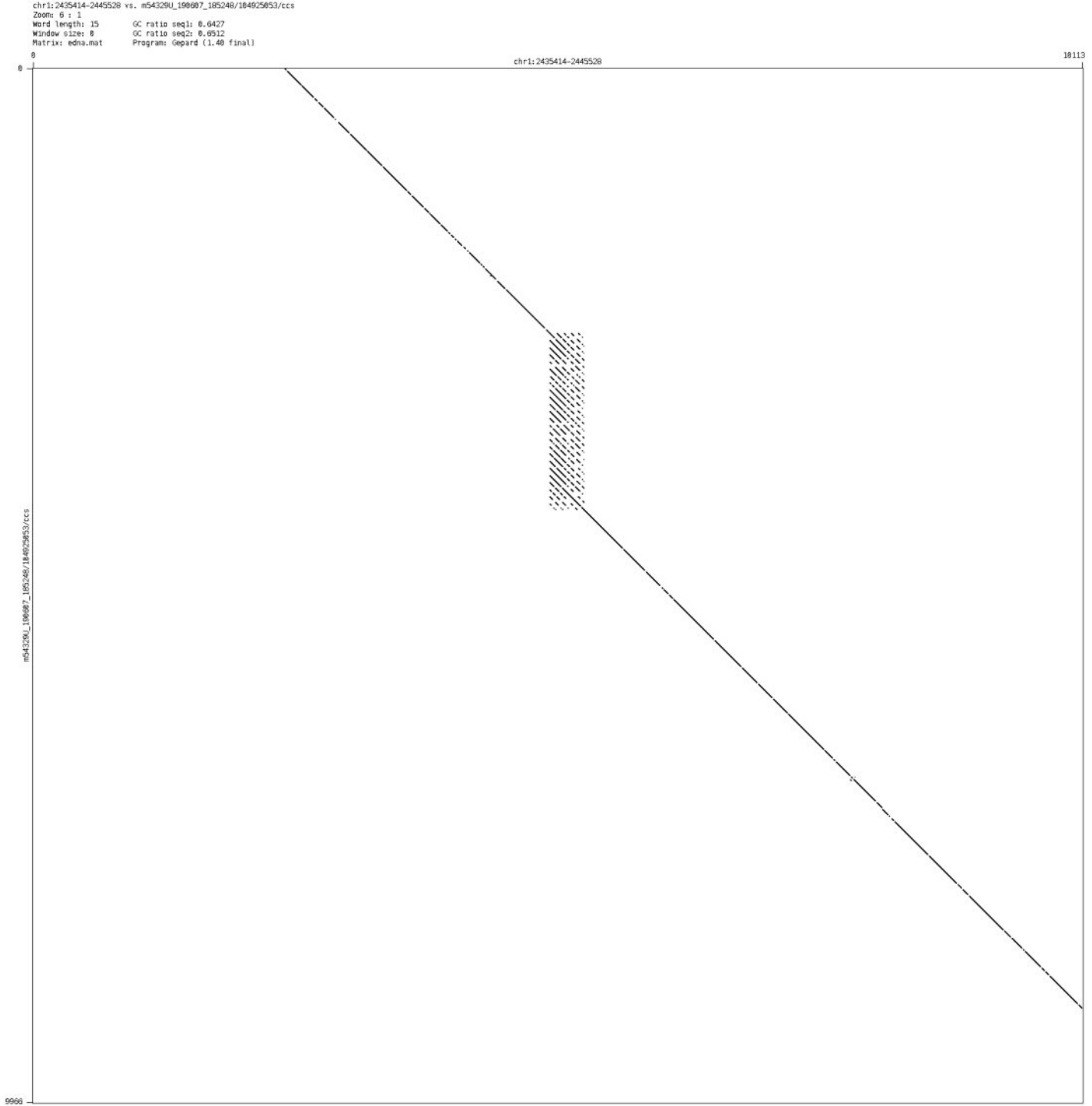
➤ chr1\_1030460\_1030901



➤ chr1\_1382295\_1382470

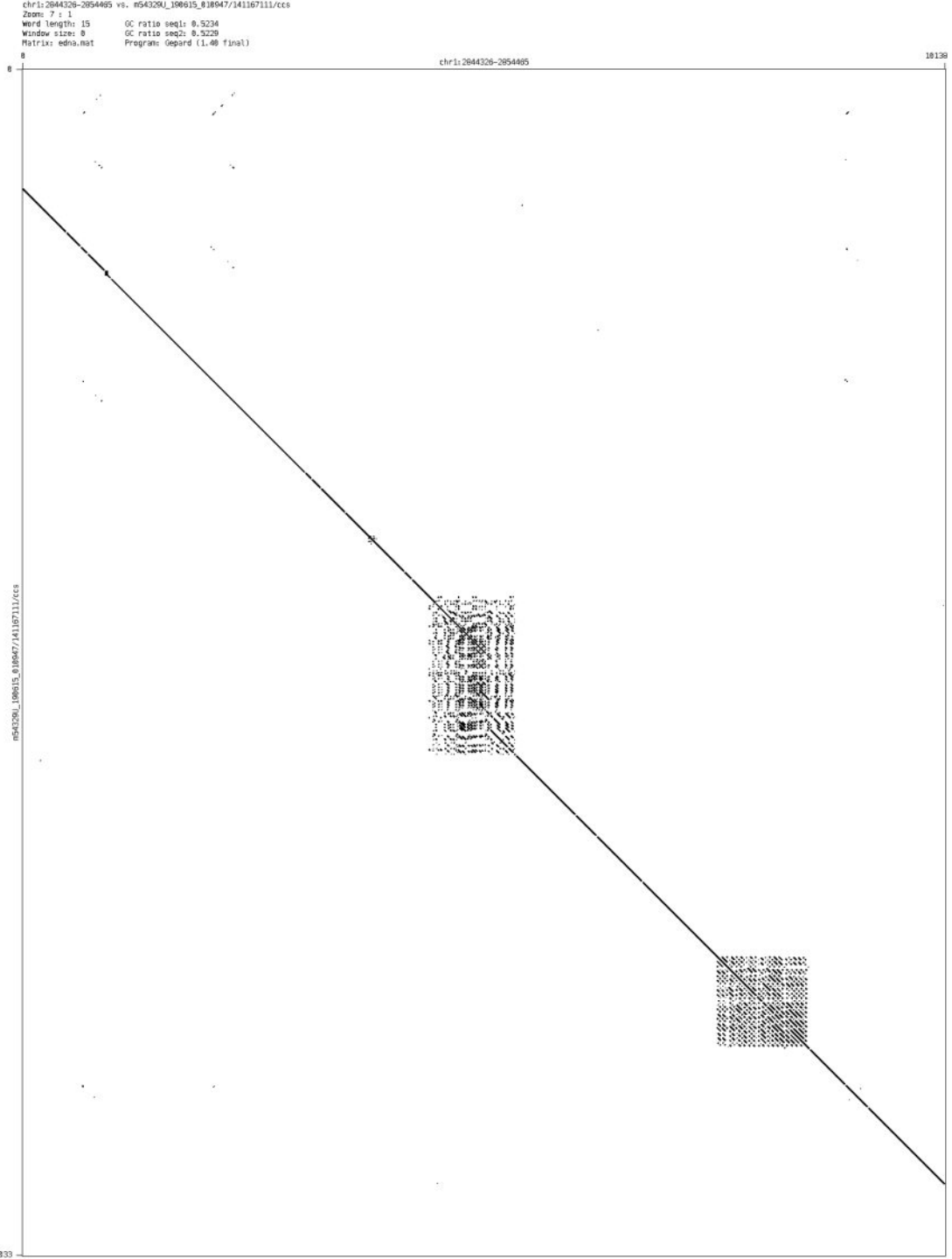


➤ chr1\_2440414\_2440528

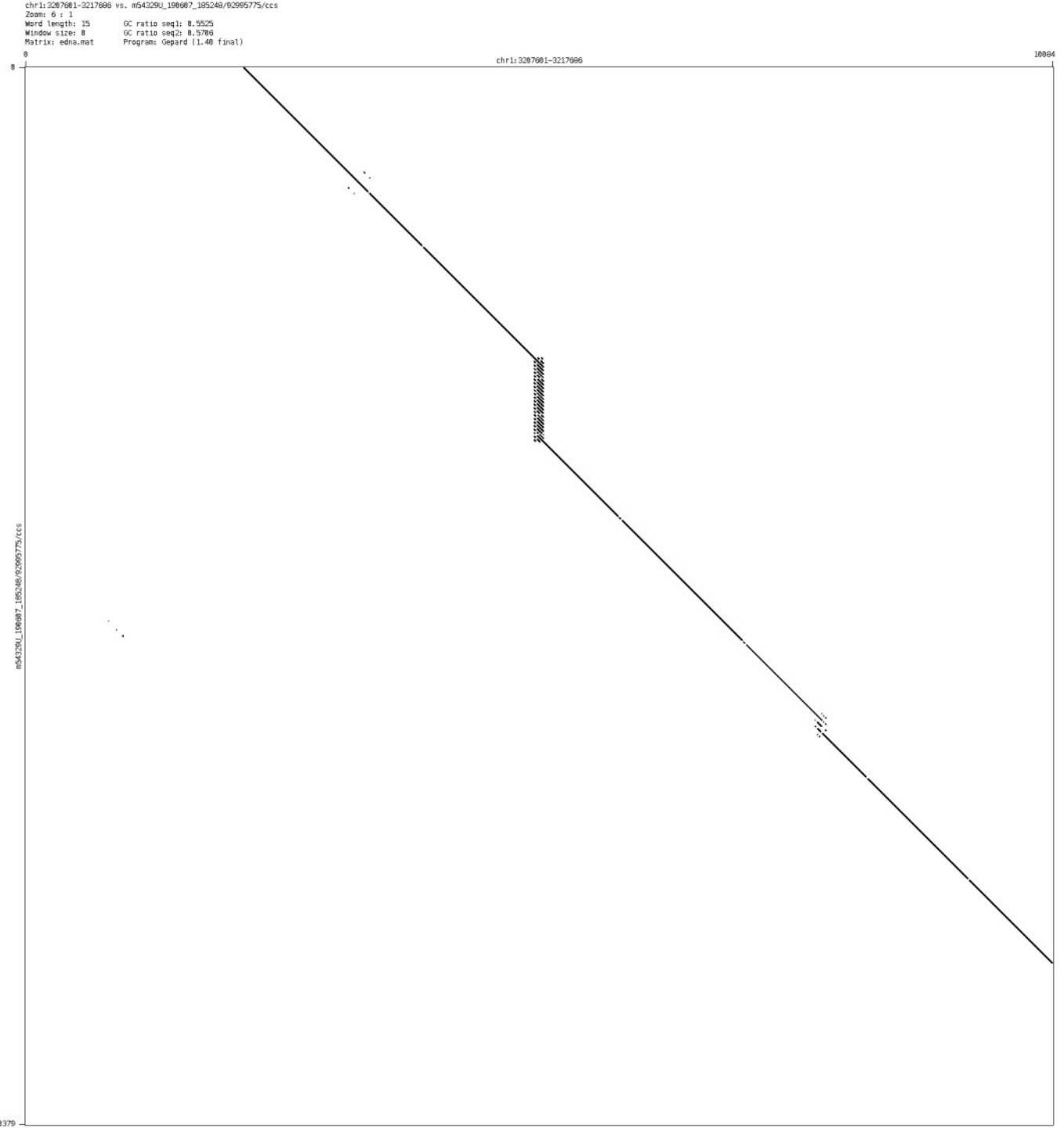




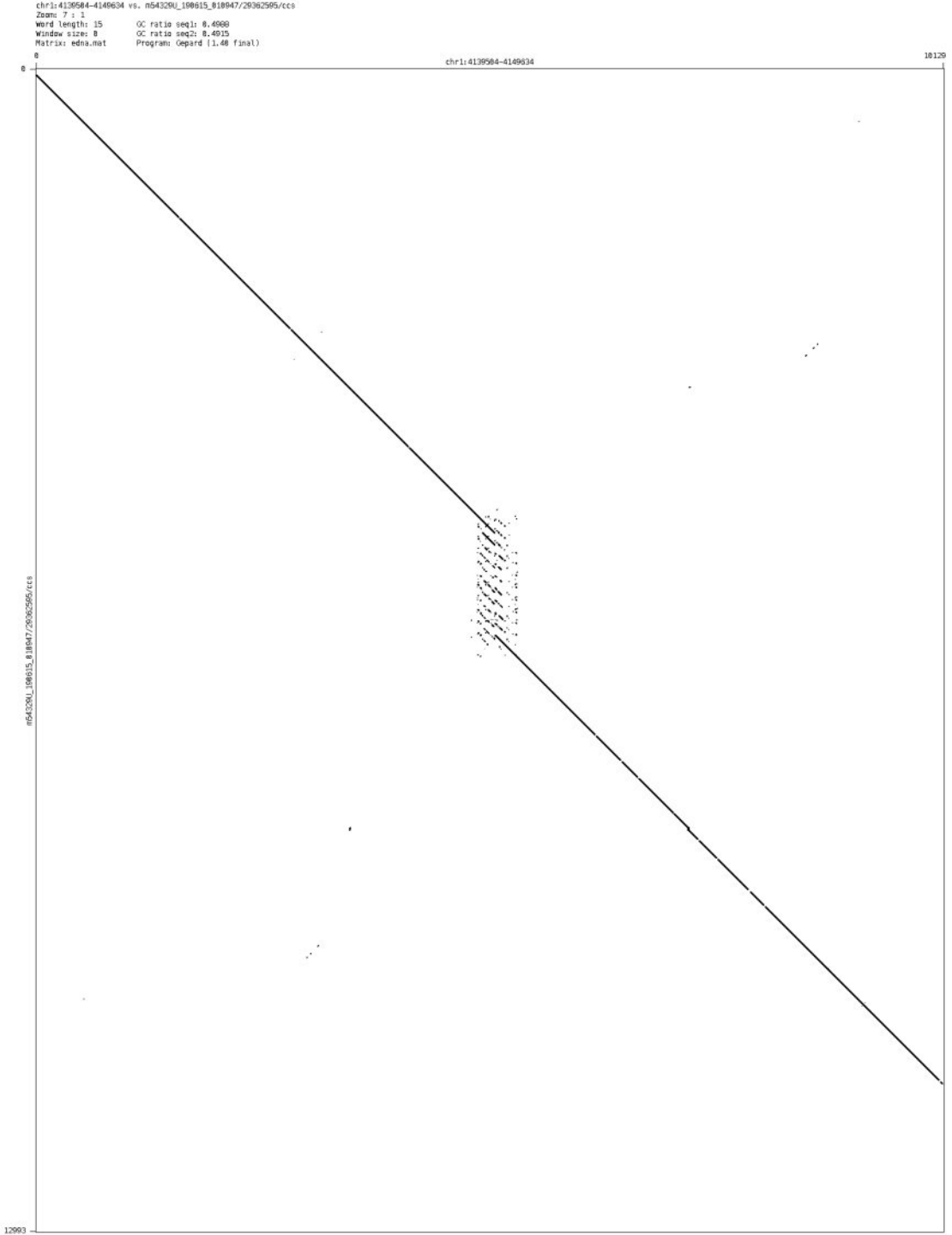
➤ chr1\_2849326\_2849465



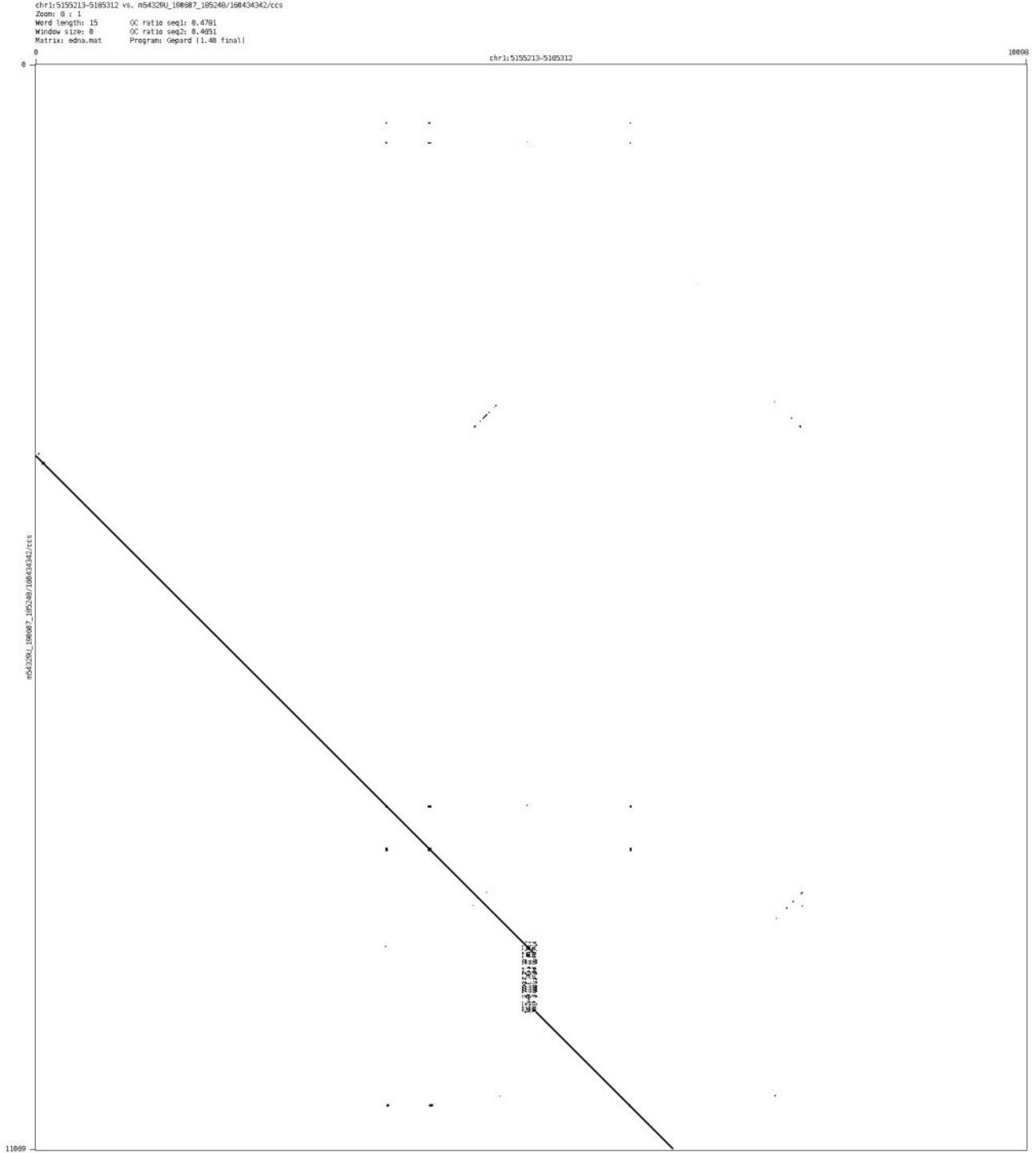
➤ chr1\_3212601\_3212686



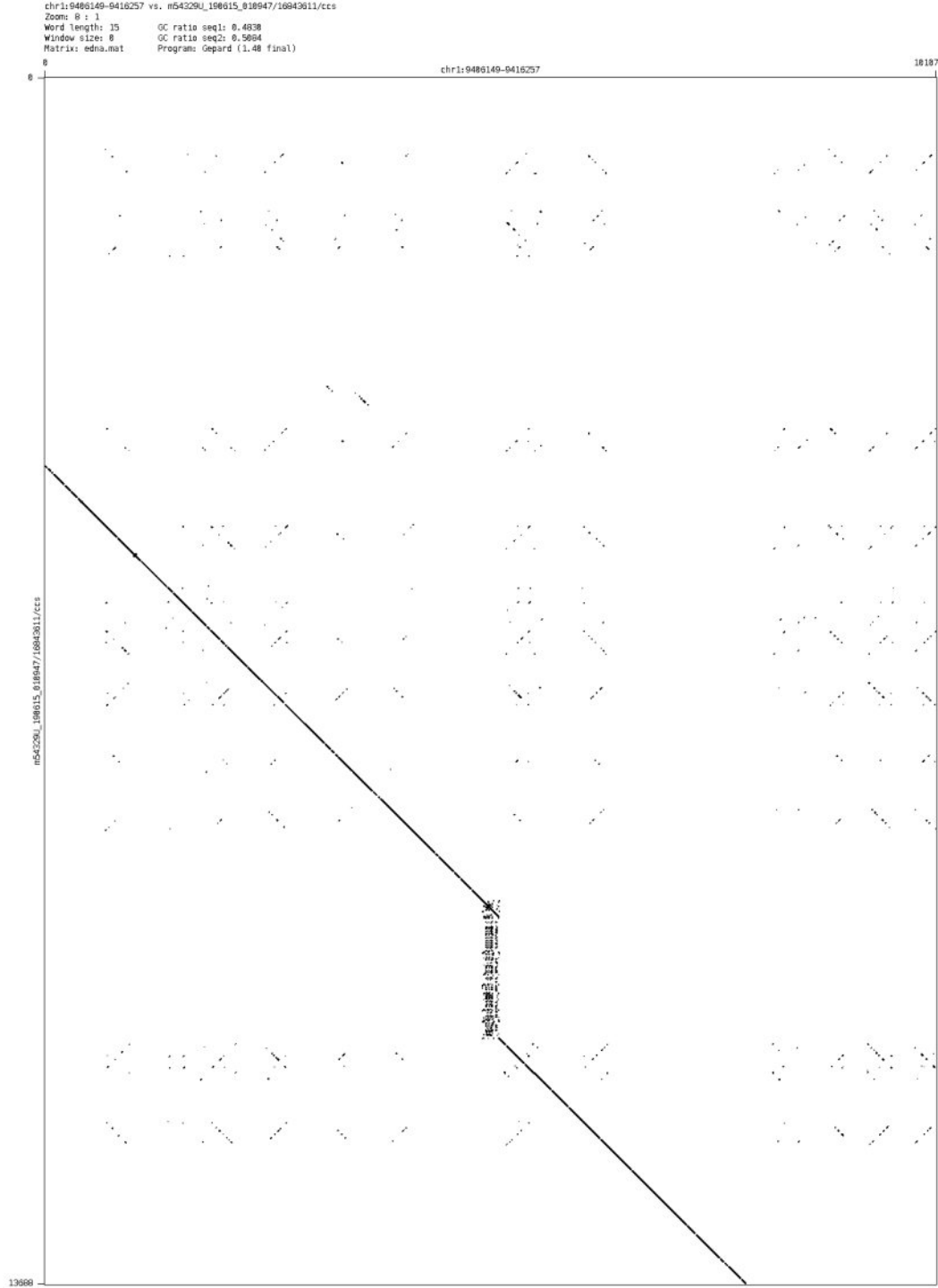
➤ chr1\_4144504\_4144634



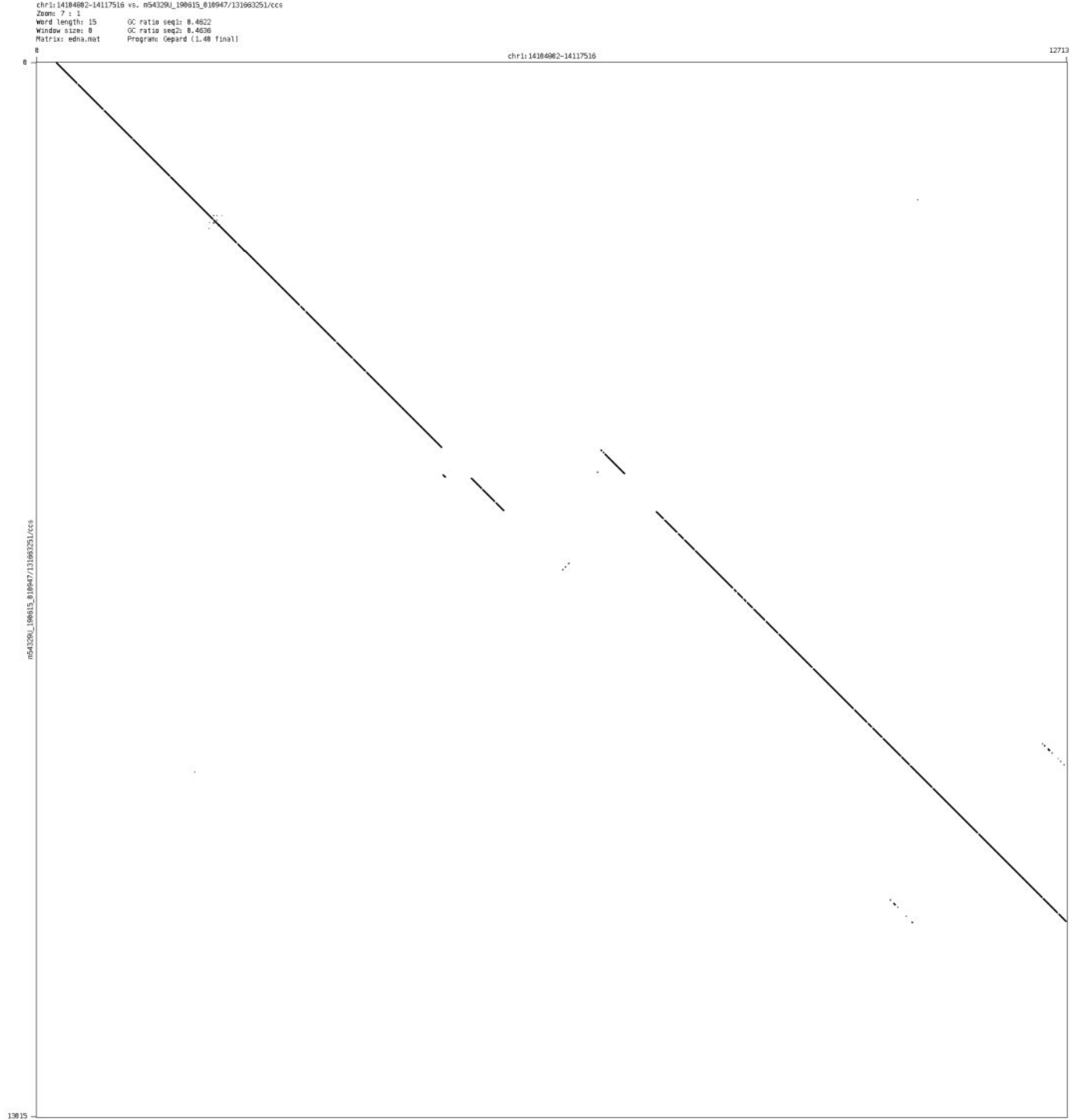
➤ chr1\_5160213\_5160312



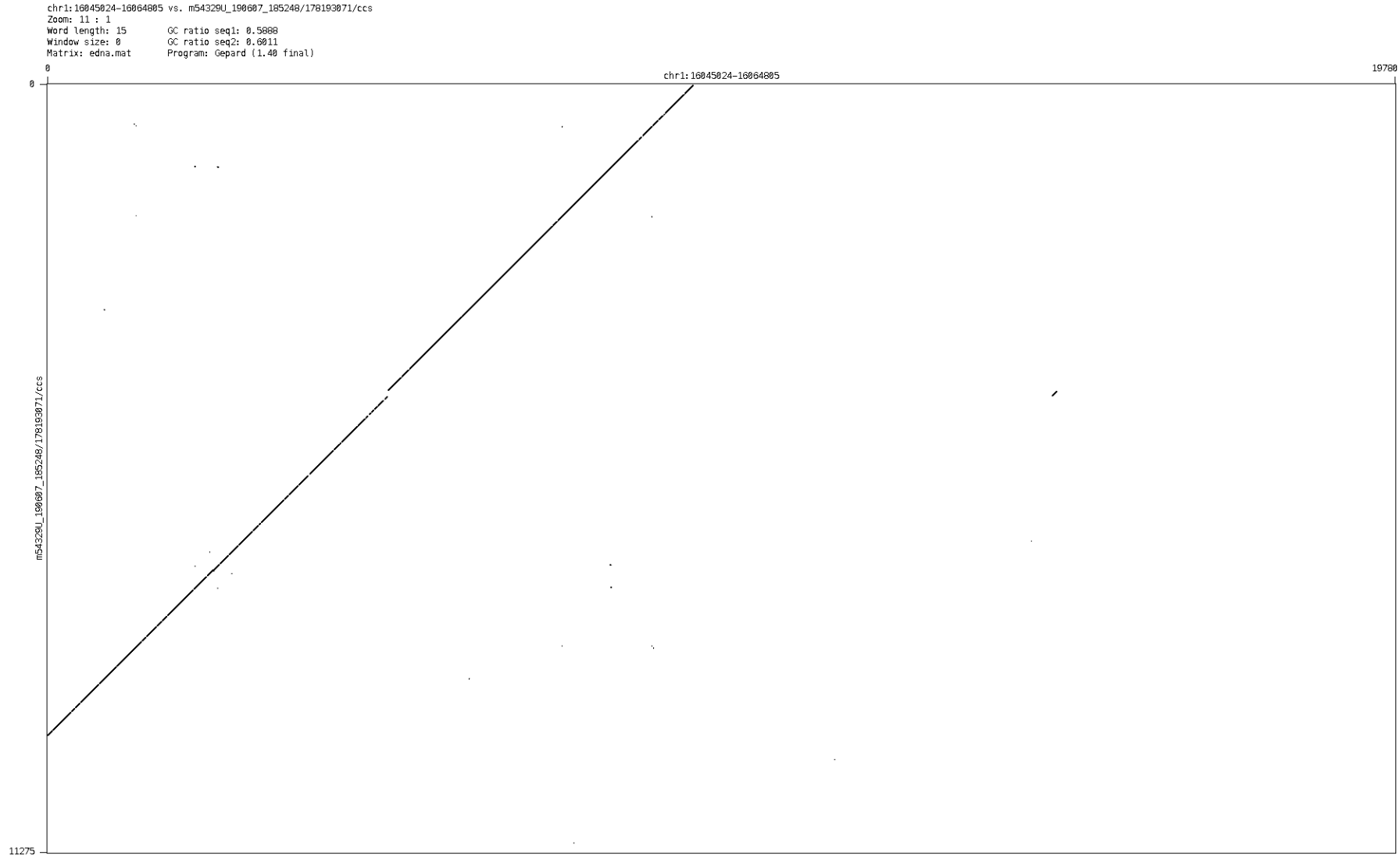
➤ chr1\_9411149\_9411257



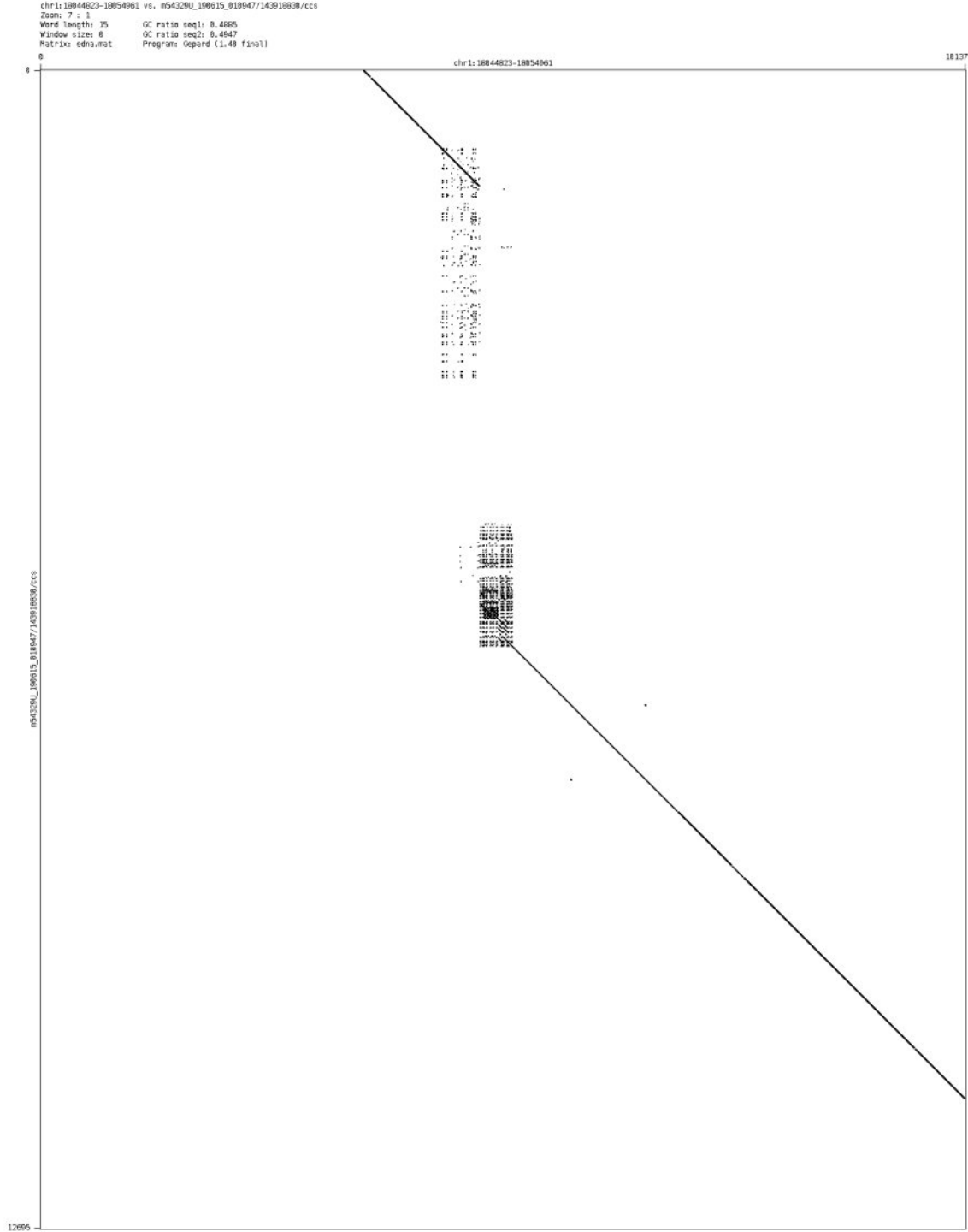
➤ chr1\_14109802\_14112516



➤ chr1\_16050024\_16059805

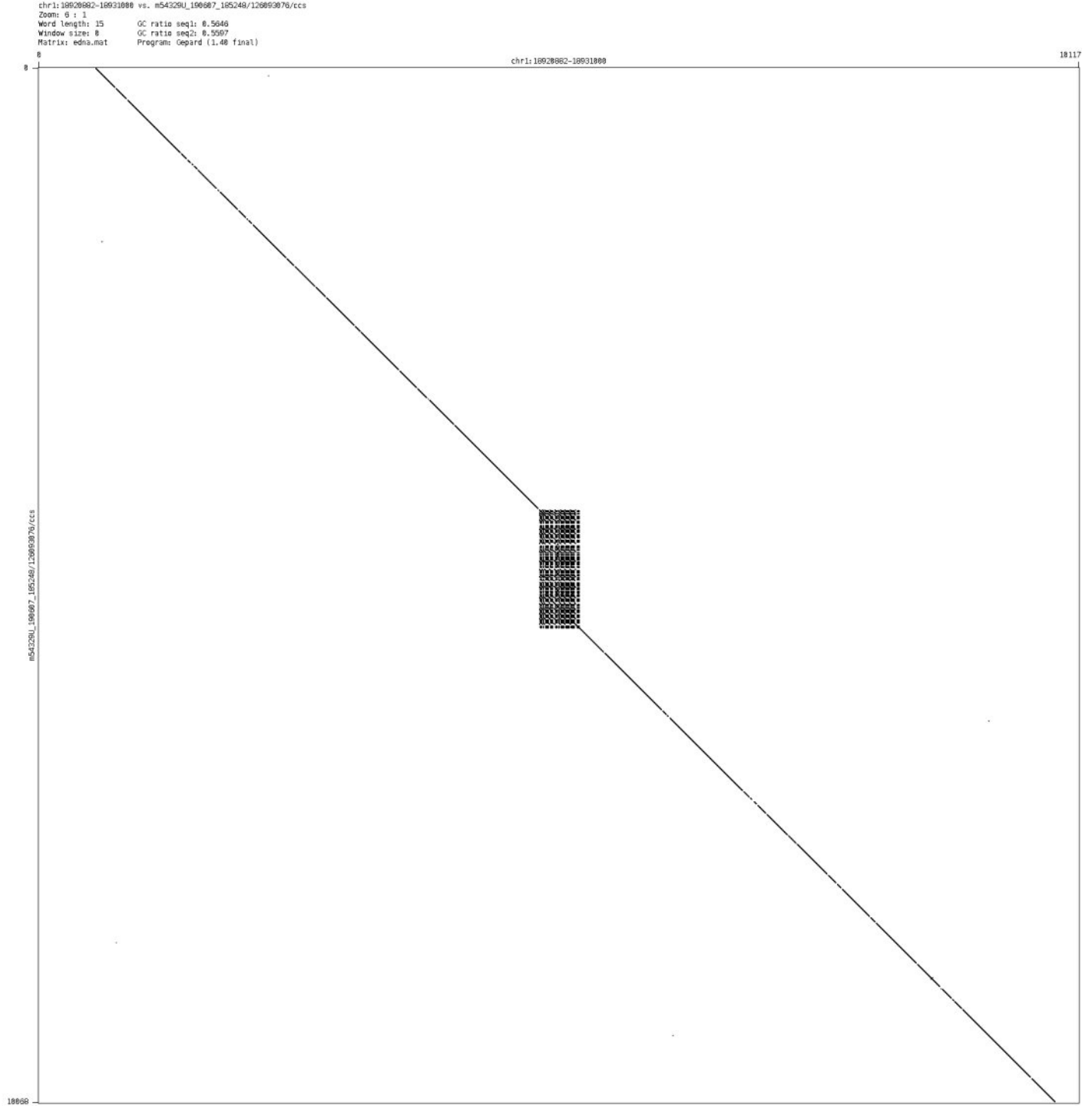


➤ chr1\_18049823\_18049961

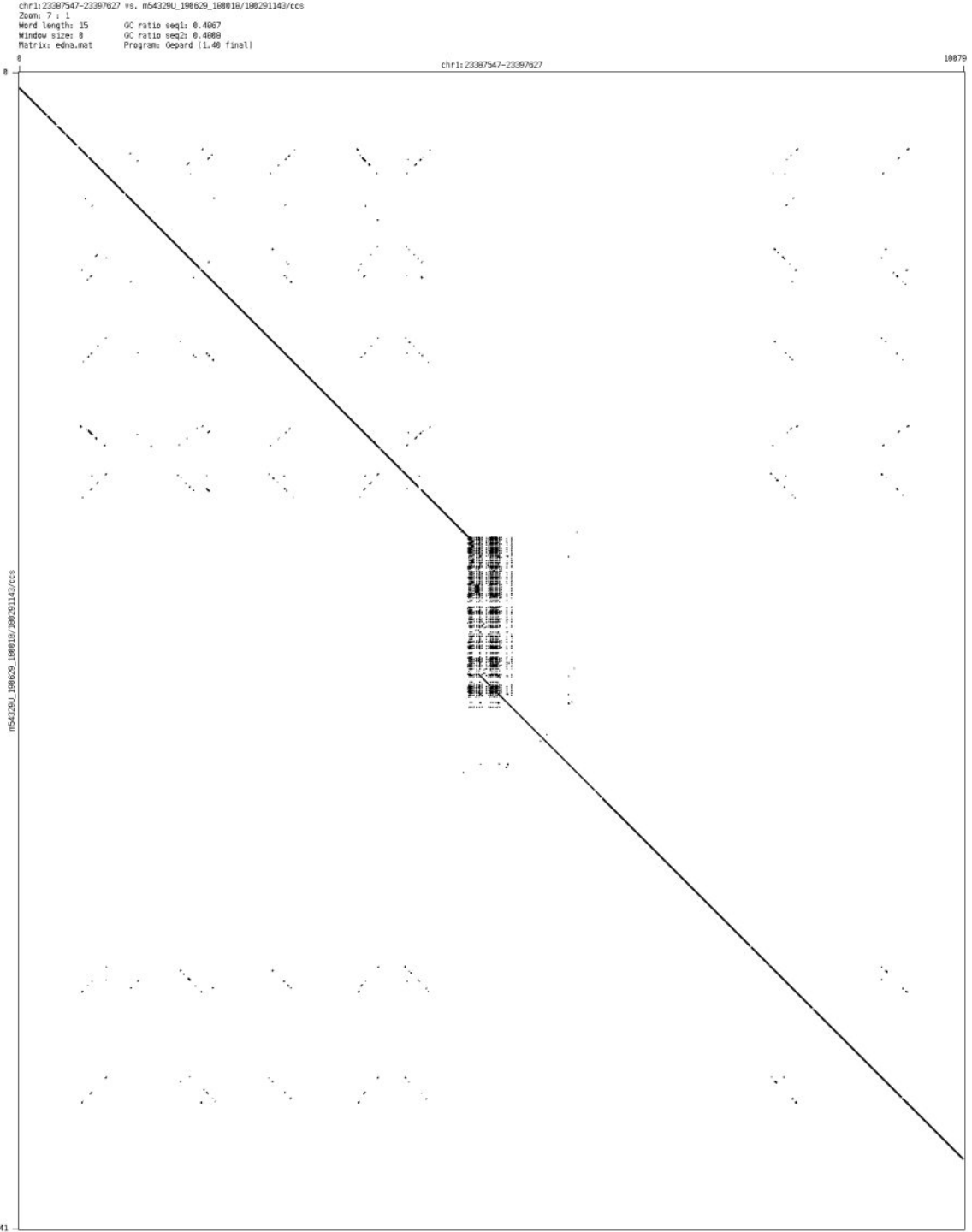




➤ chr1\_18925882\_18926000

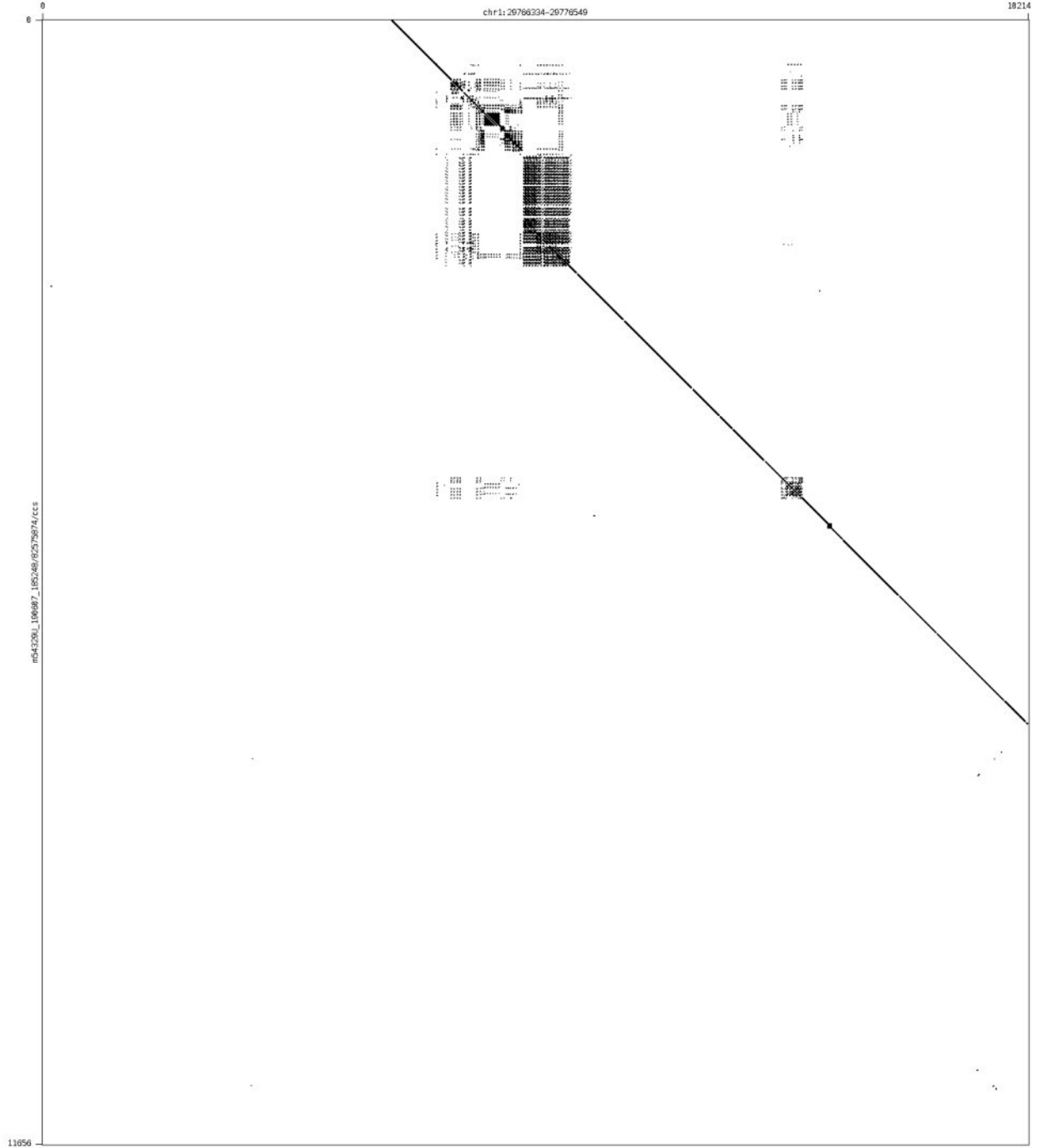


➤ chr1\_23392547\_23392627

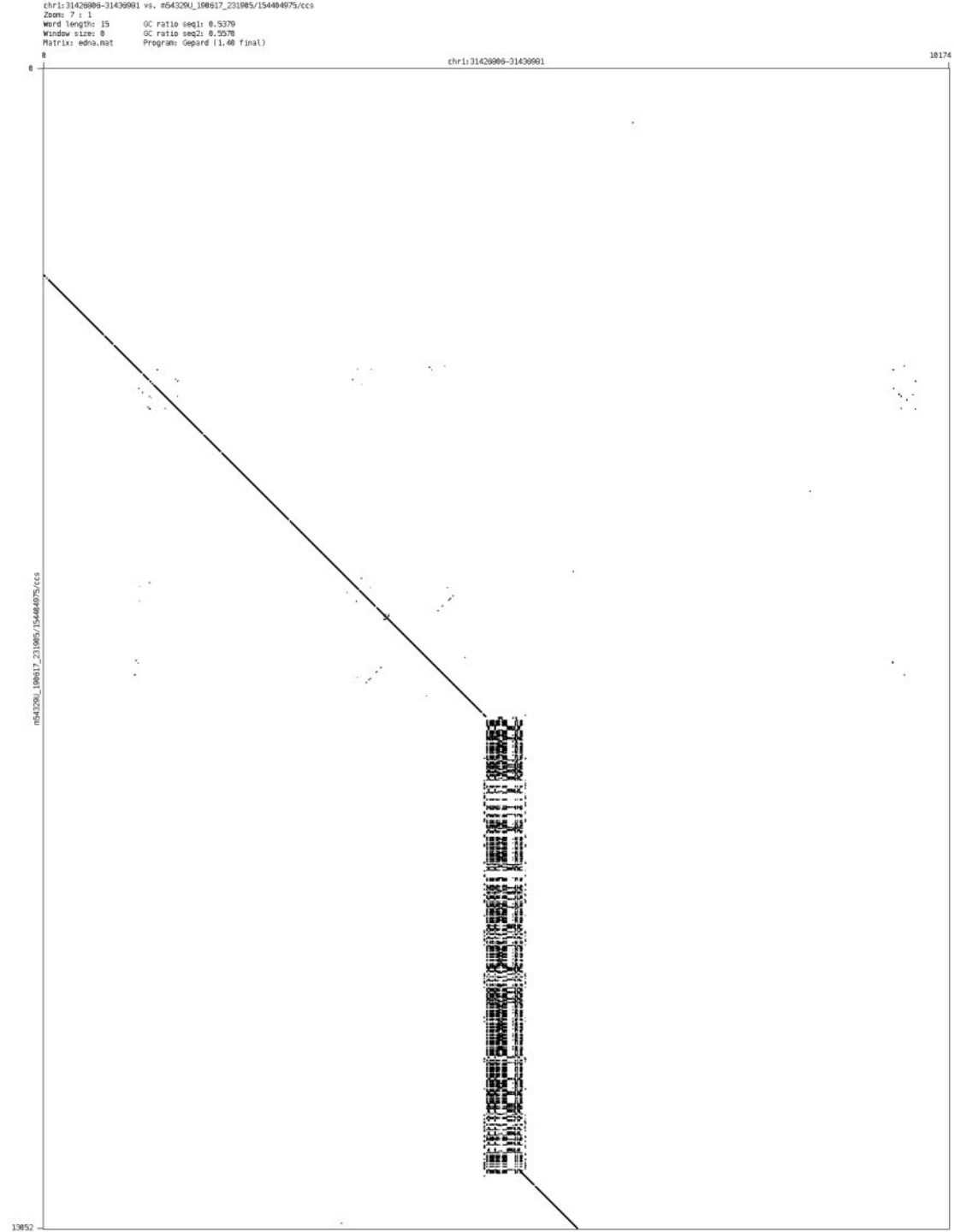


➤ chr1\_29771334\_29771549

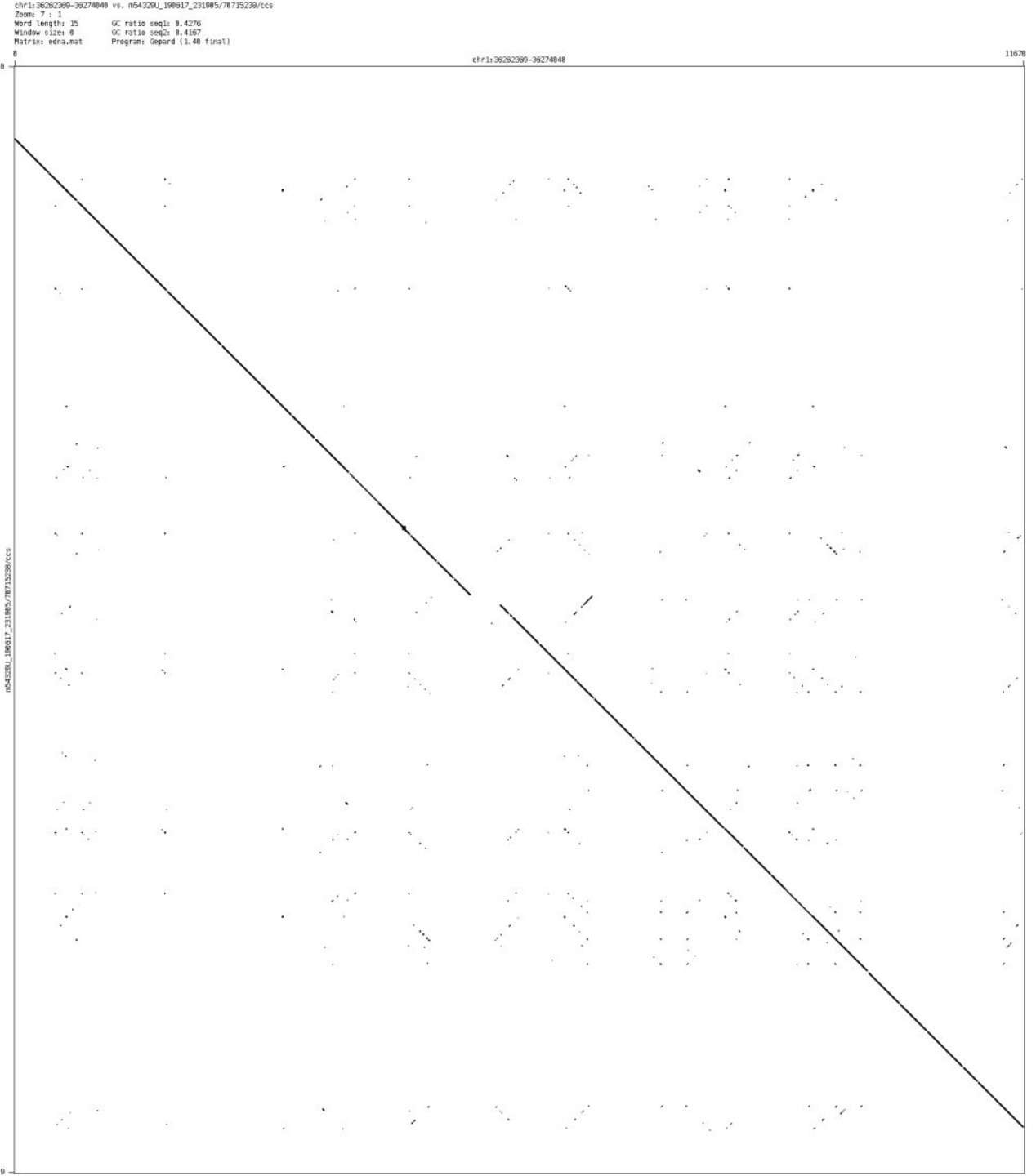
chr1:29786334-29776549 vs. m54326U\_196887\_185248/82575874/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 8.2658  
Window size: 8 GC ratio seq2: 8.3282  
Matrix: edna.mat Program: Gepard (1.48 final)



➤ chr1\_31431806\_31431981

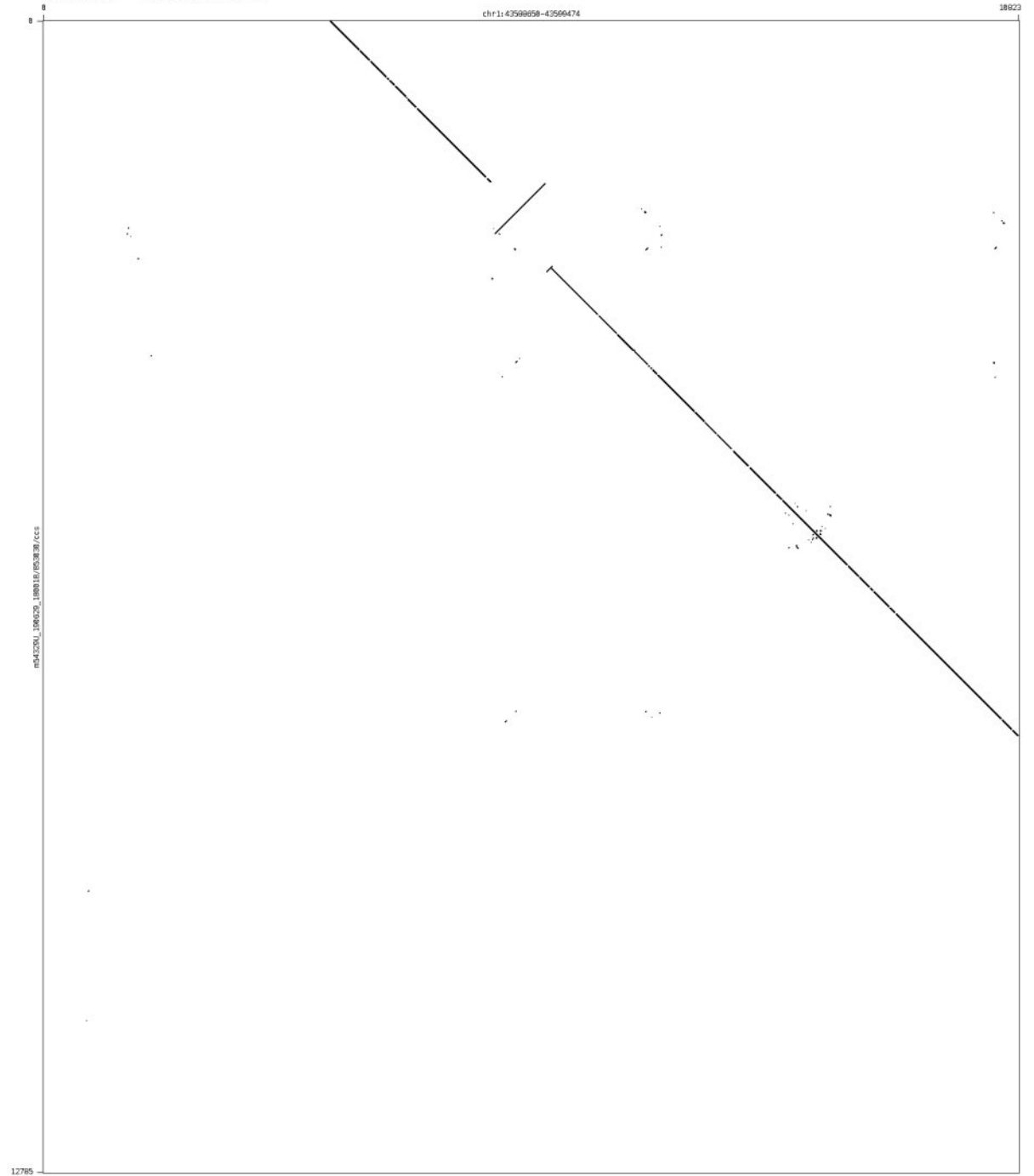


➤ chr1\_36267369\_36269040



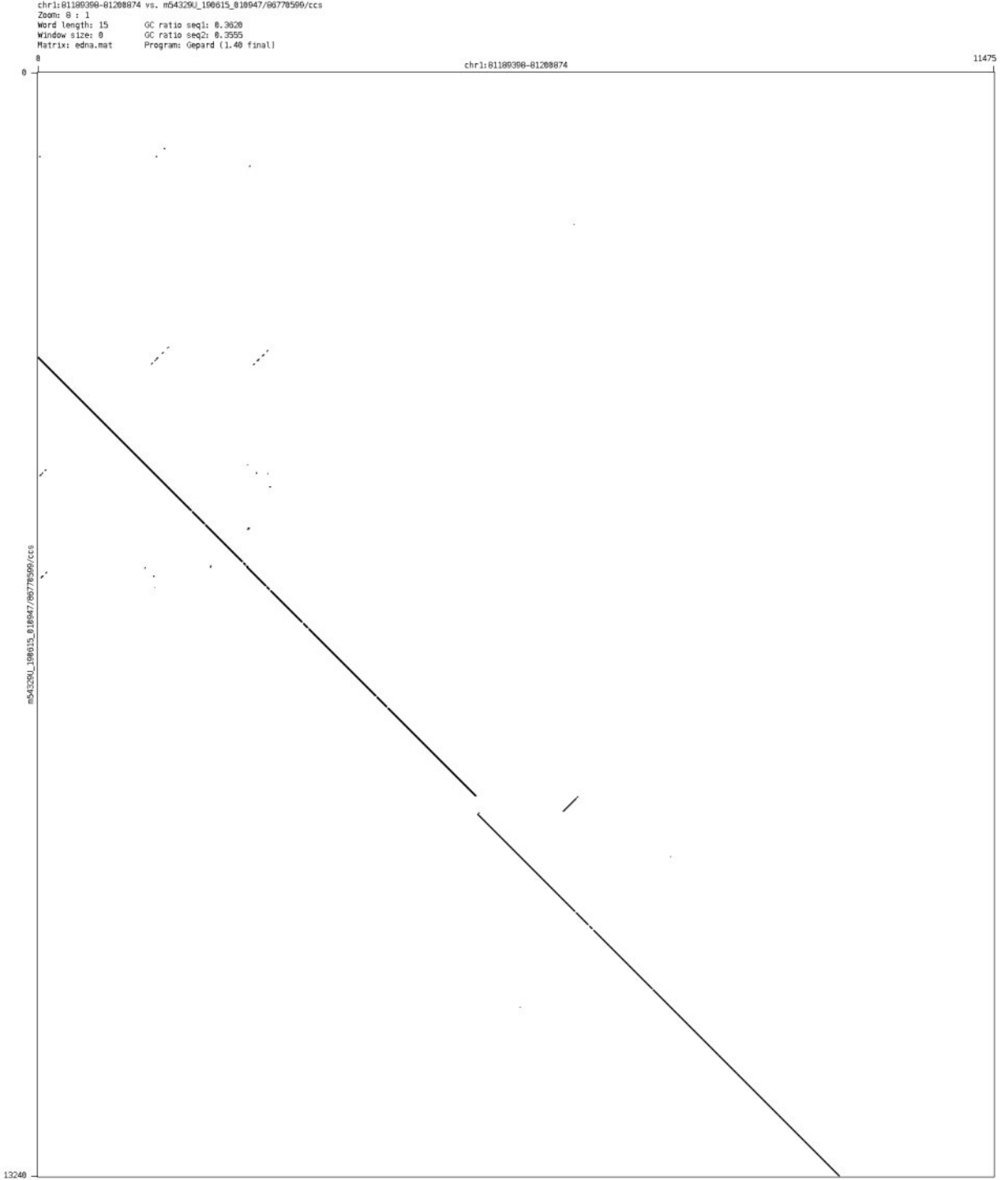
➤ chr1\_43593650\_43594474

chr1:43590959-43594474 vs. n543291\_188626\_188018/953838/ccc  
Zoom: 7 : 1 GC ratio seq1: 0.5626  
Word length: 15 GC ratio seq2: 0.5714  
Window size: 0 Program: oepard (1.40 final)  
Matrix: edna.mat

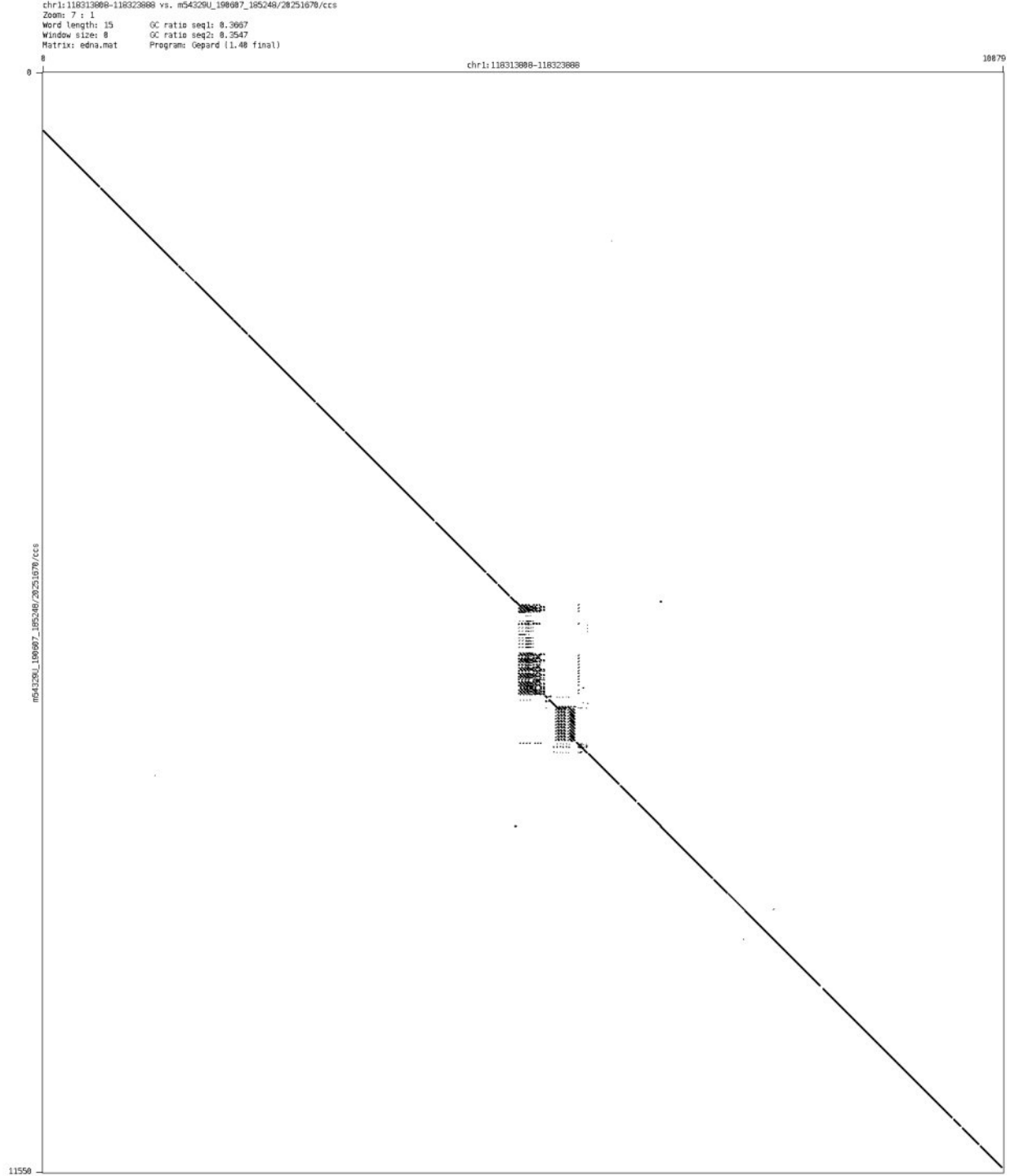


12785

➤ chr1\_81194398\_81195874

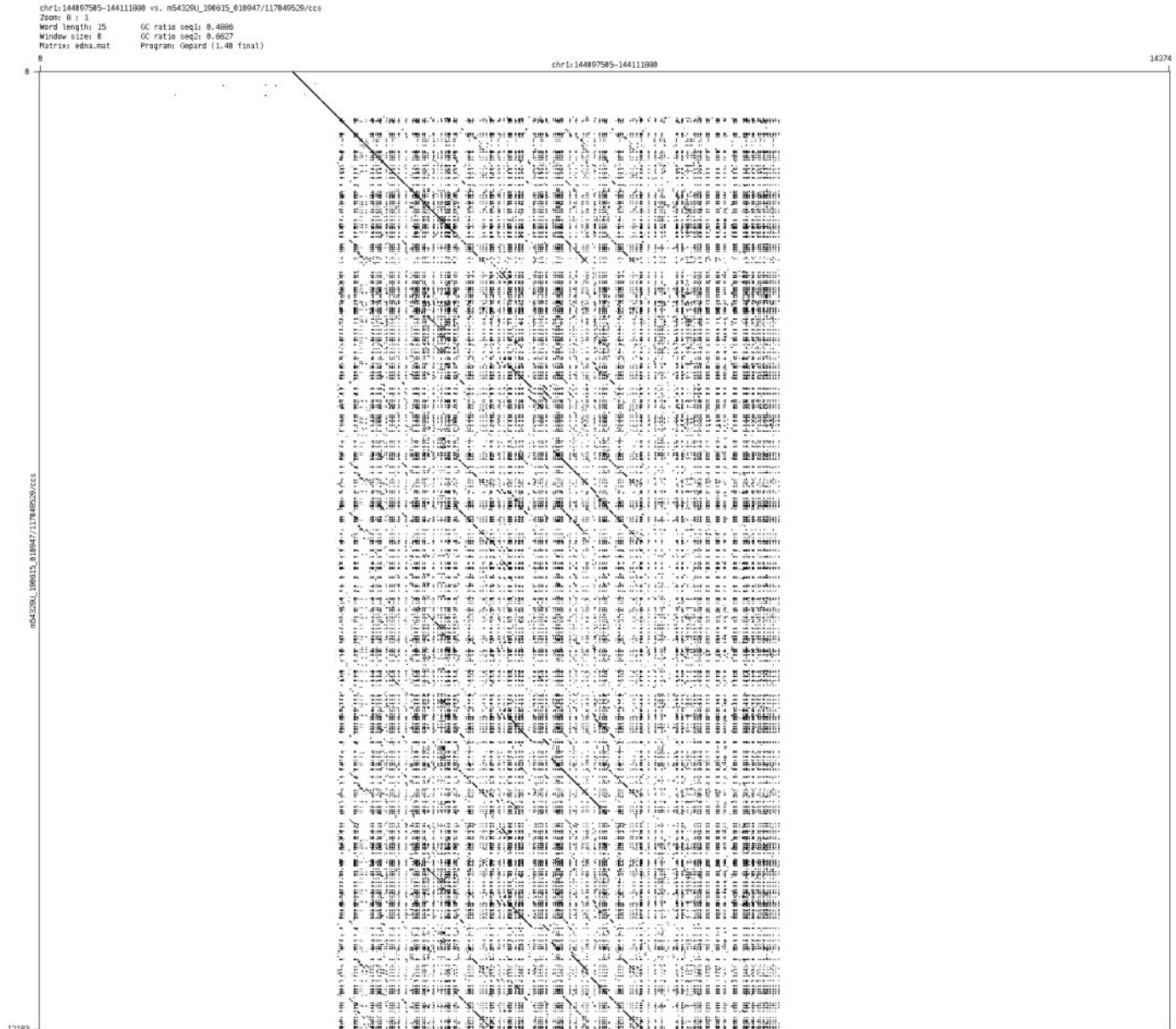


➤ chr1\_118318808\_118318888

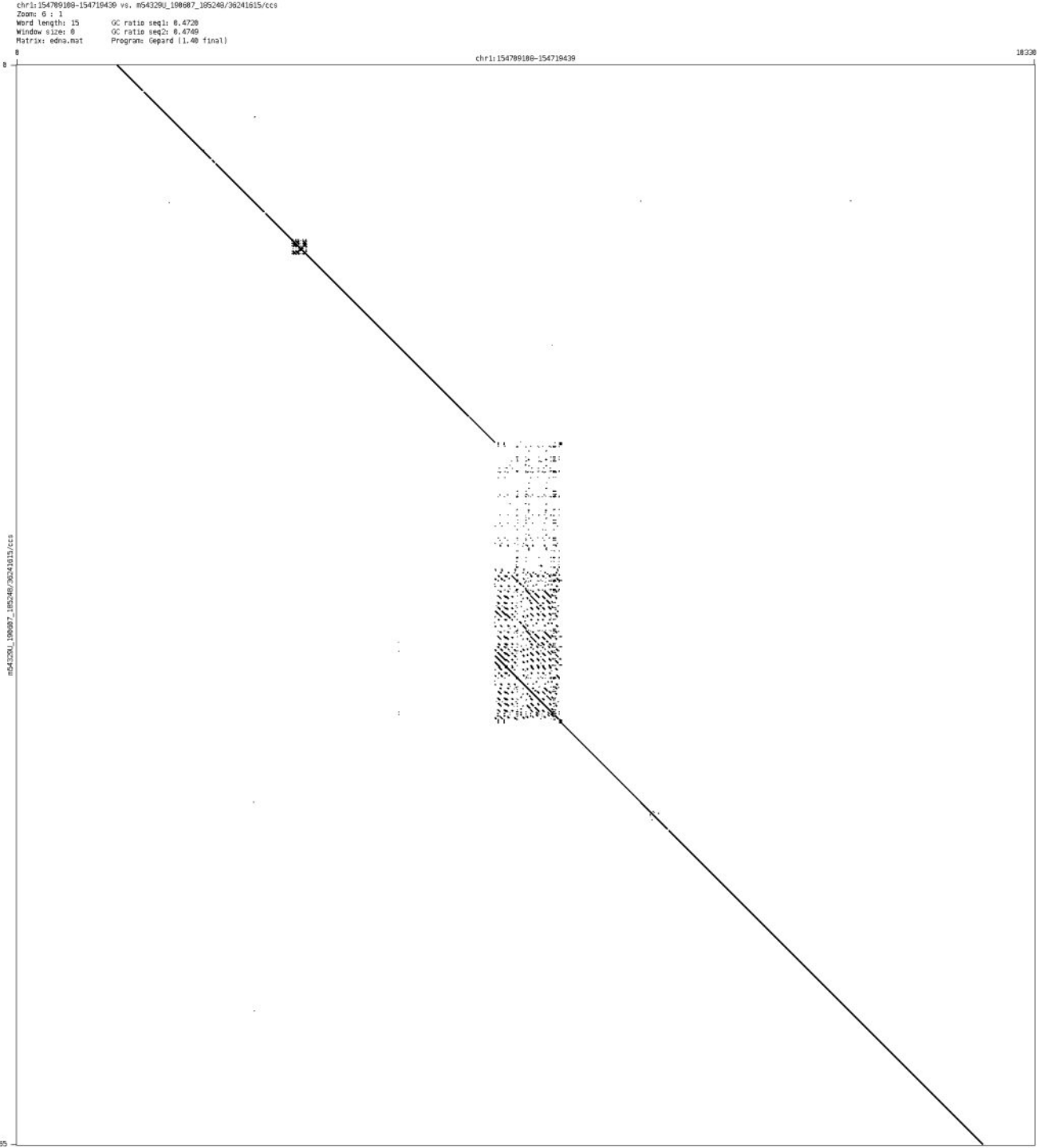




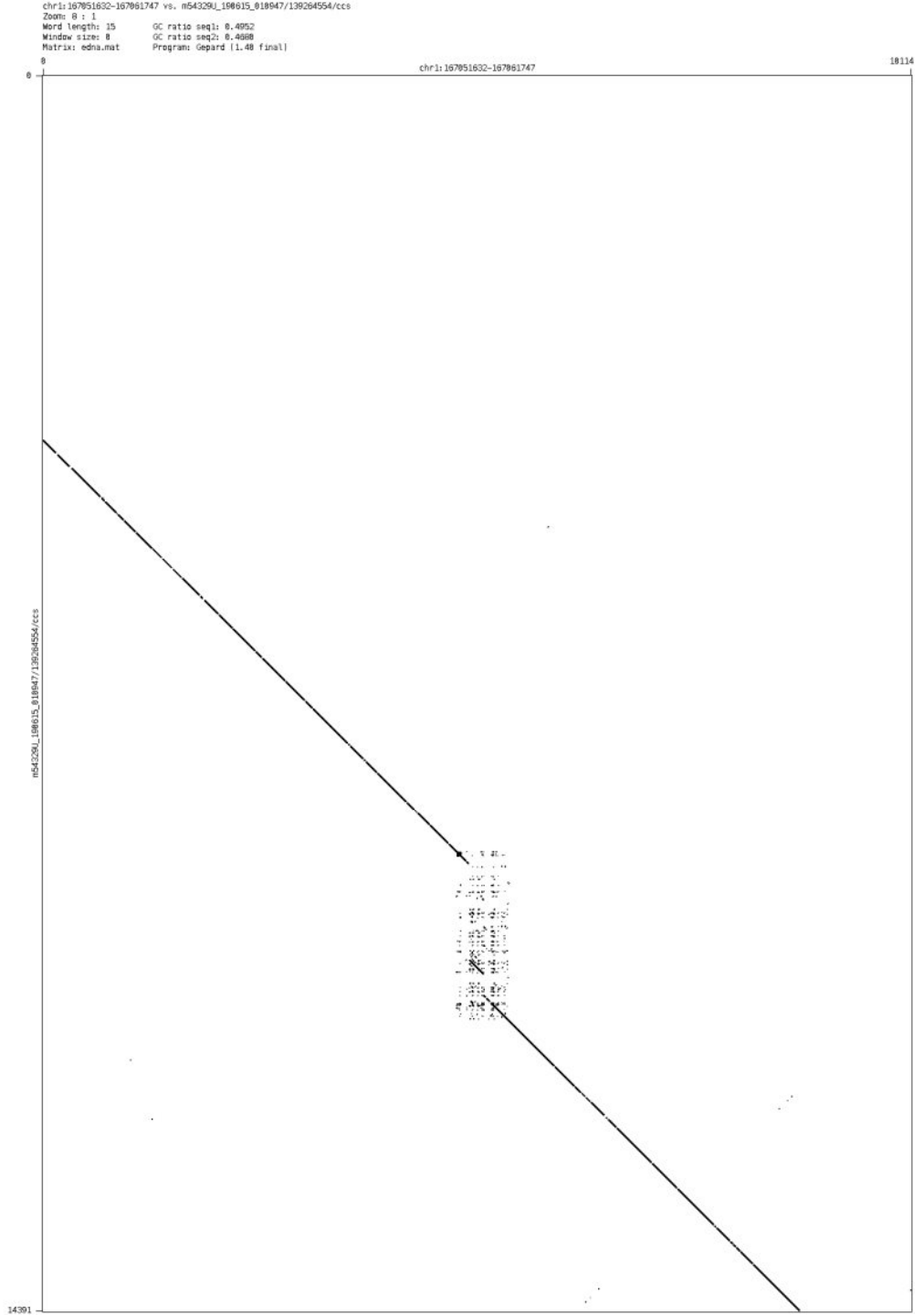
➤ chr1\_144102505\_144106880



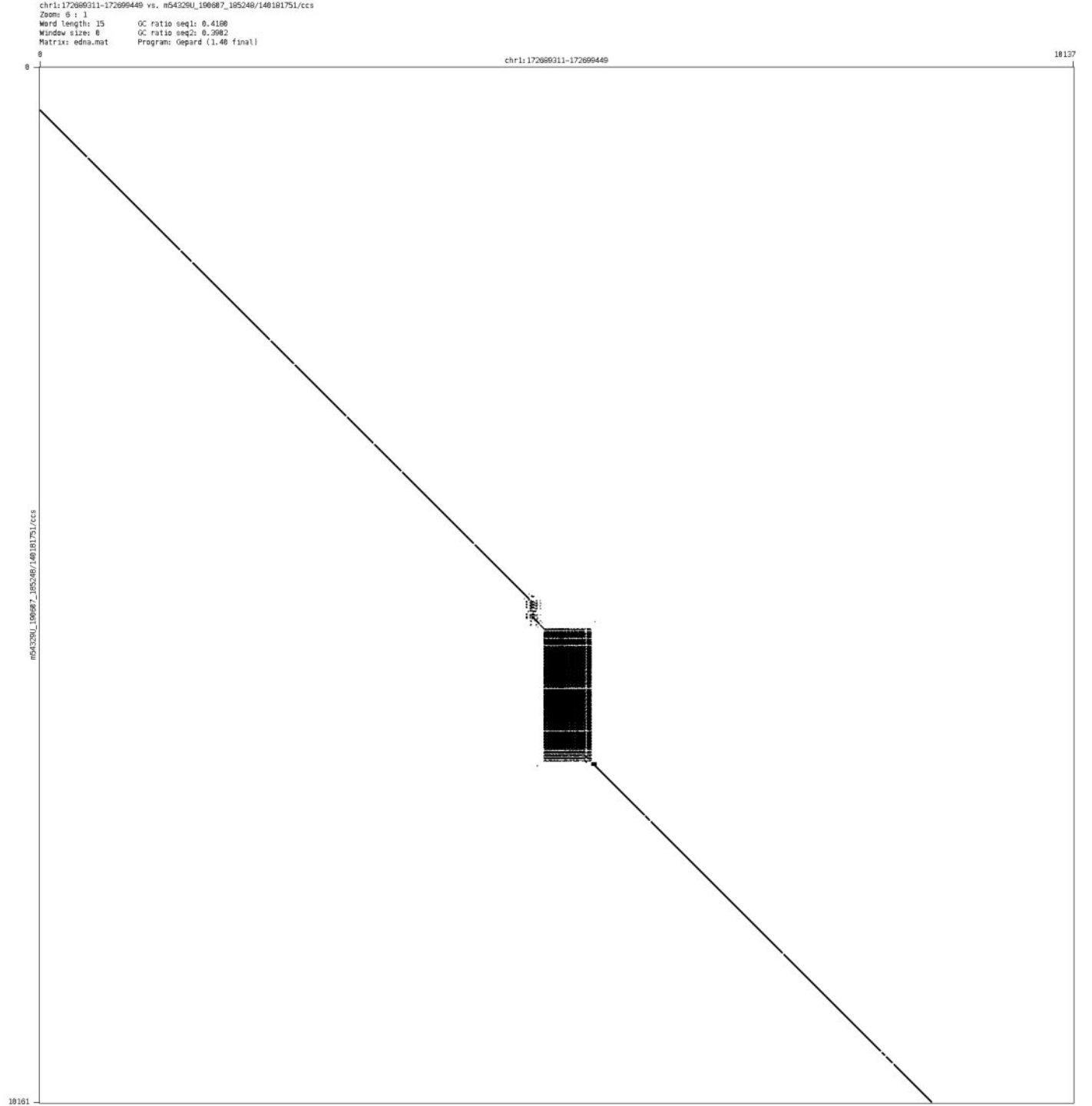
➤ chr1\_154714108\_154714439



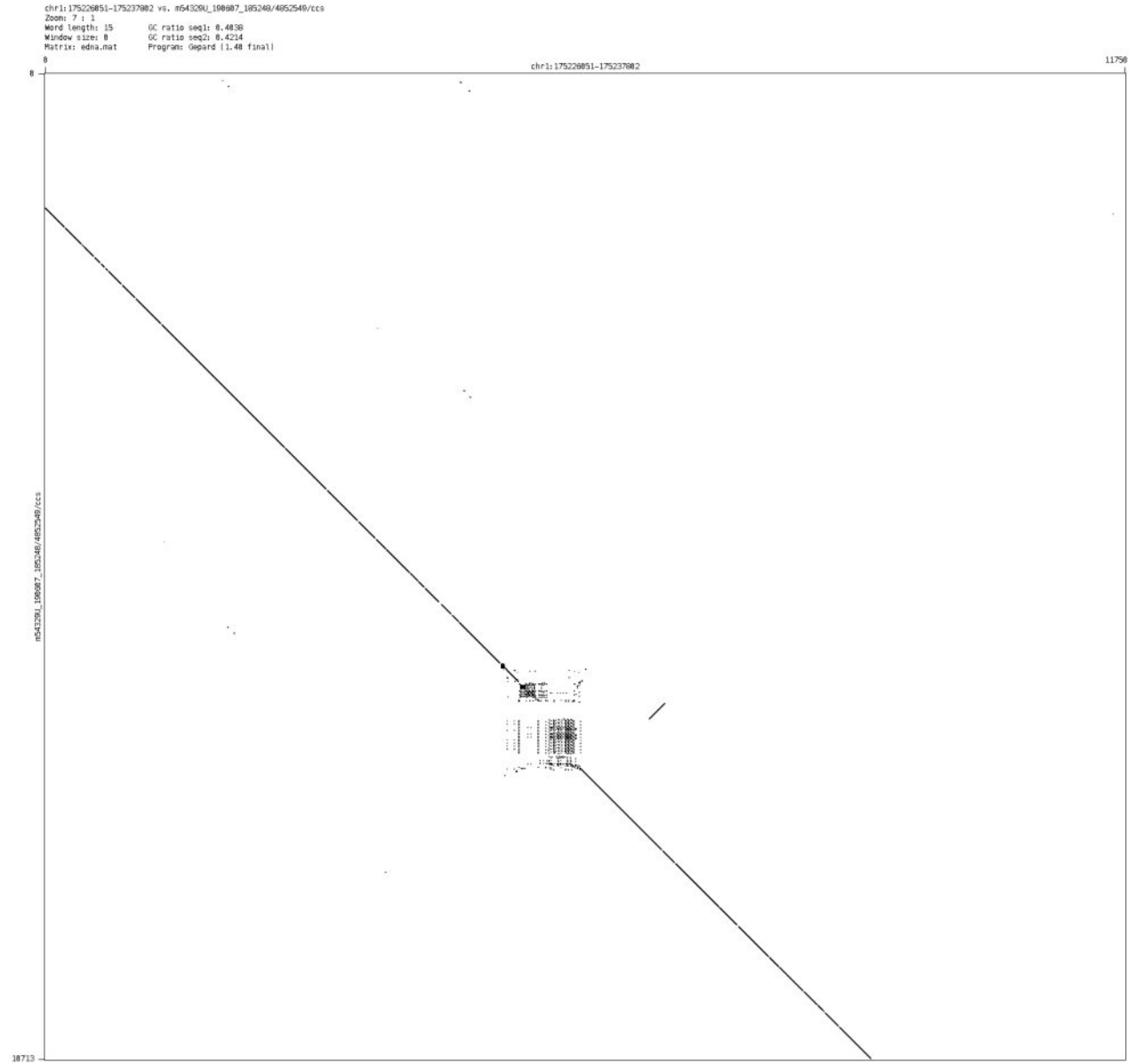
➤ chr1\_167056632\_167056747



➤ chr1\_172694311\_172694449

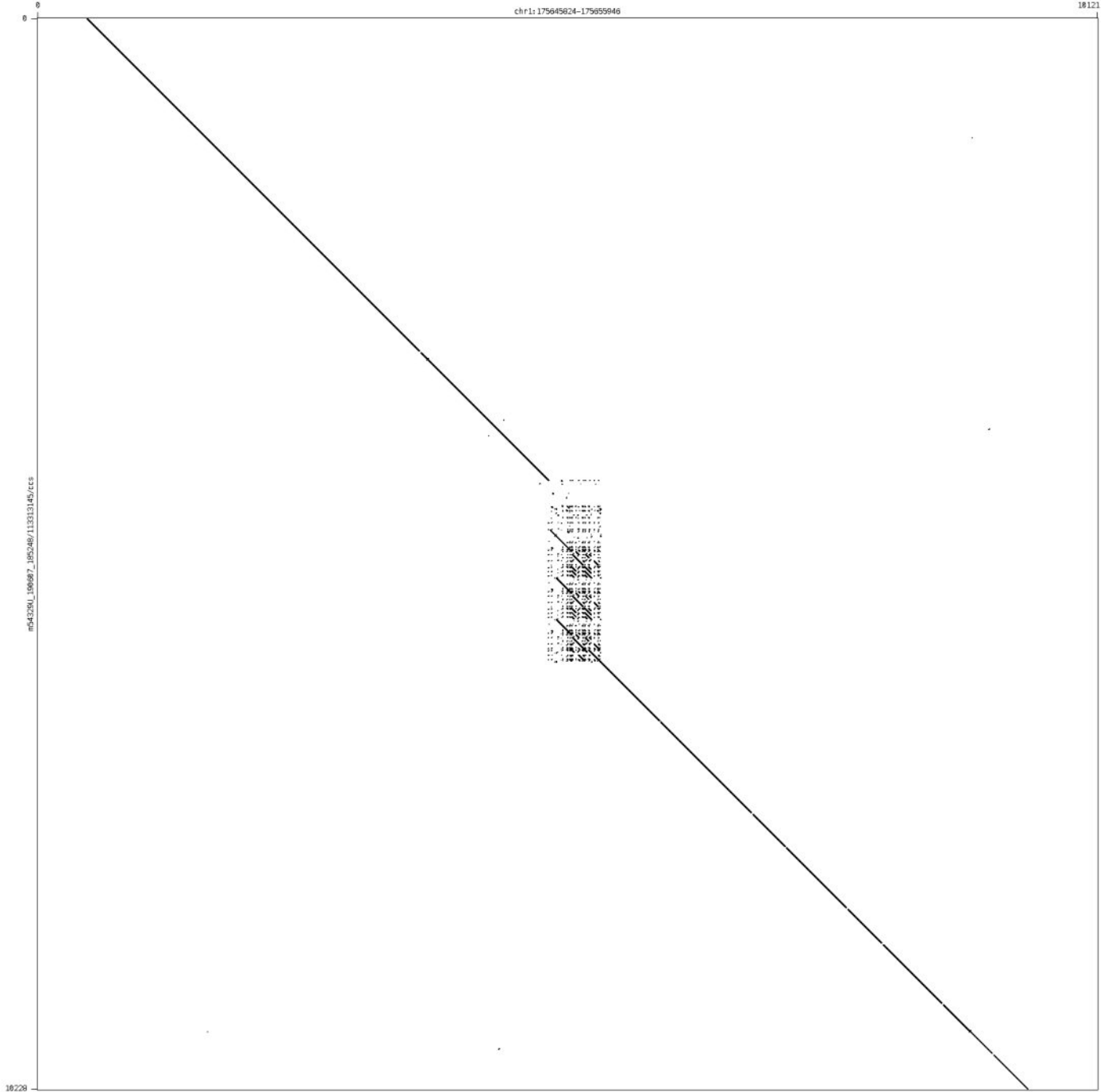


➤ chr1\_175231051\_175232802

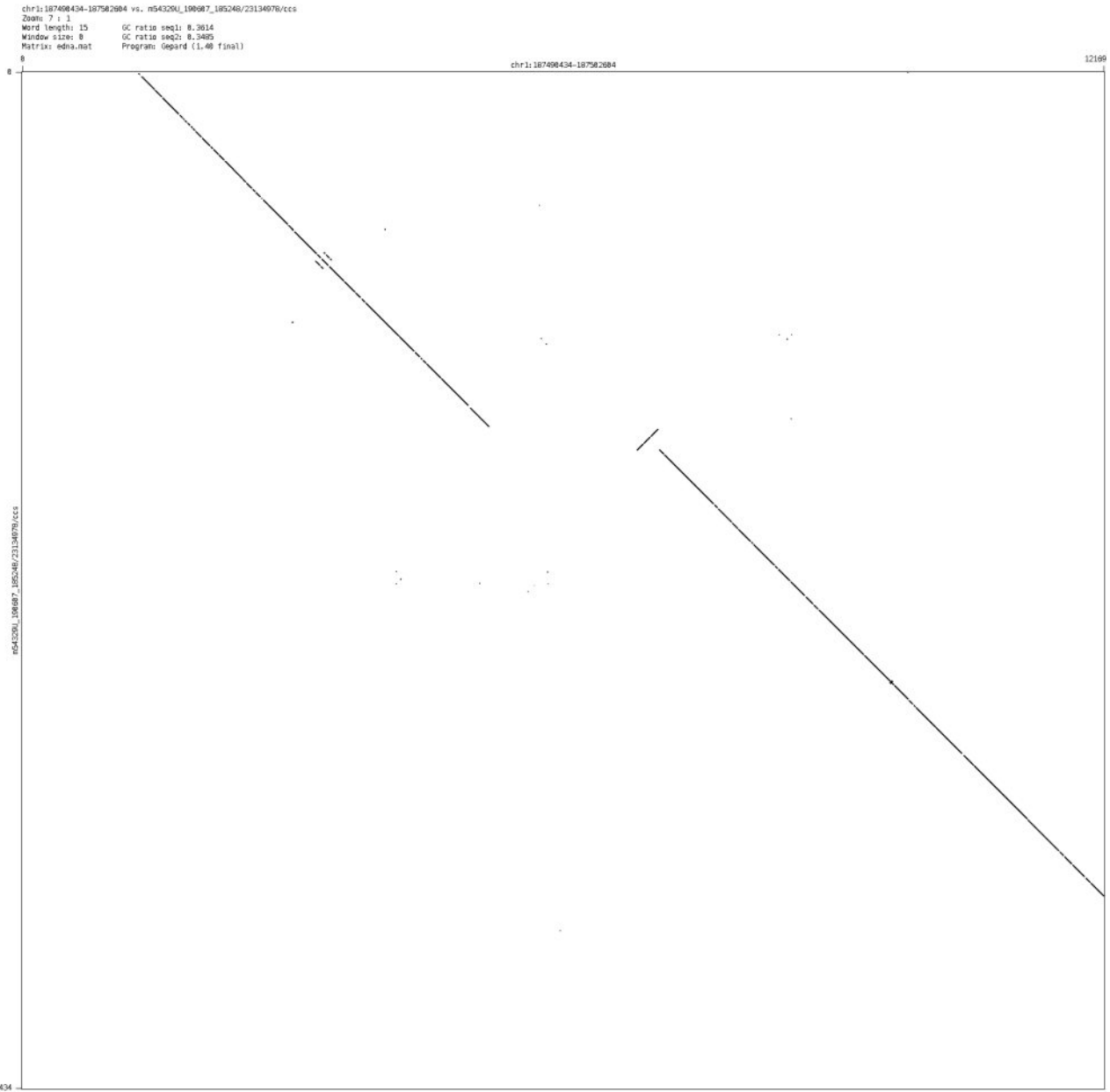


➤ chr1\_175650824\_175650946

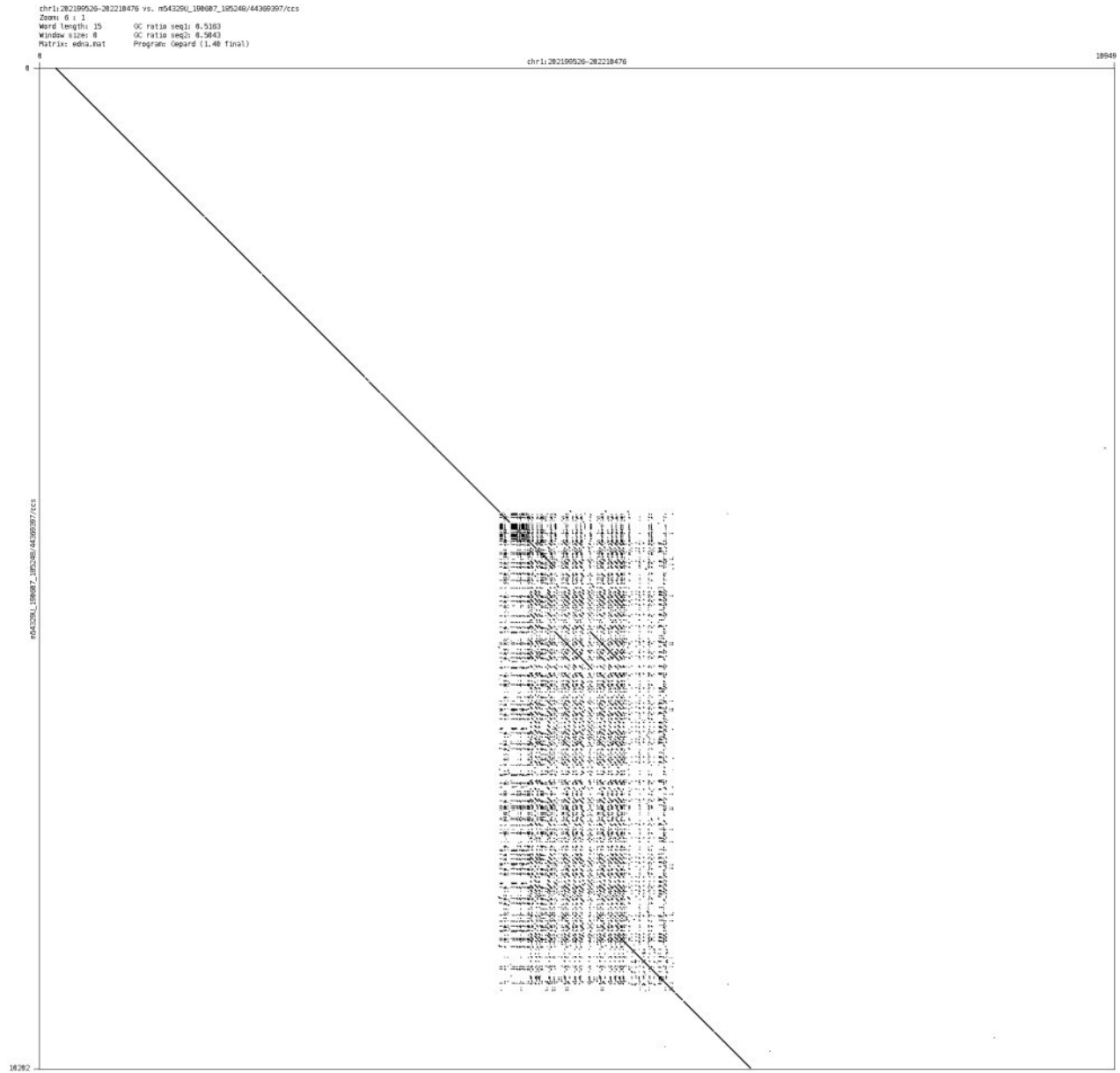
chr1:175645824-175655946 vs. n54229U\_180887\_185248/113313145/ccs  
Zoom: 0 : 1  
Word length: 15 GC ratio seq1: 0.4311  
Window size: 0 GC ratio seq2: 0.4451  
Matrix: edna.mat Program: Gepard (1.48 final)



➤ chr1\_187495434\_187497604

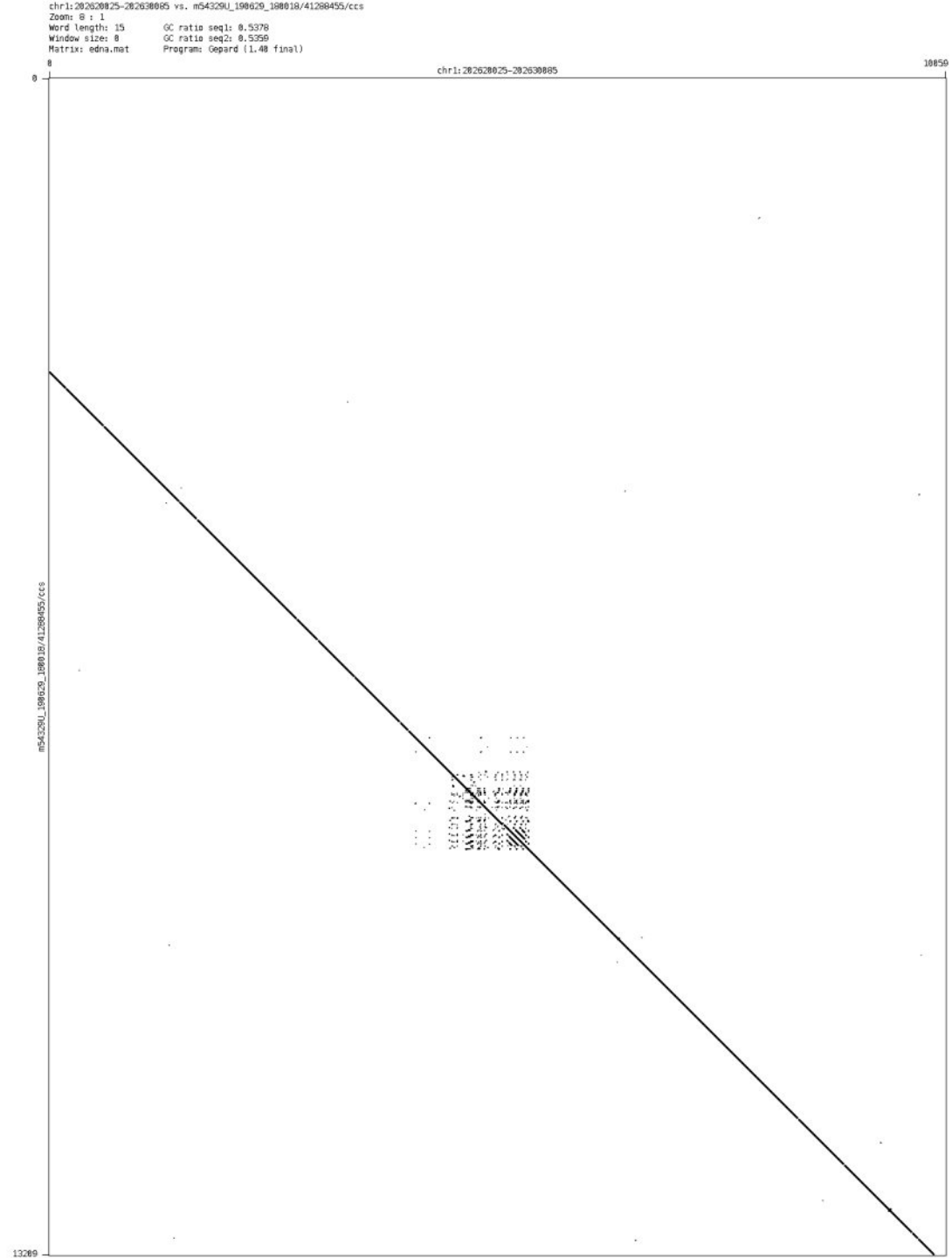


➤ chr1\_202204526\_202205476

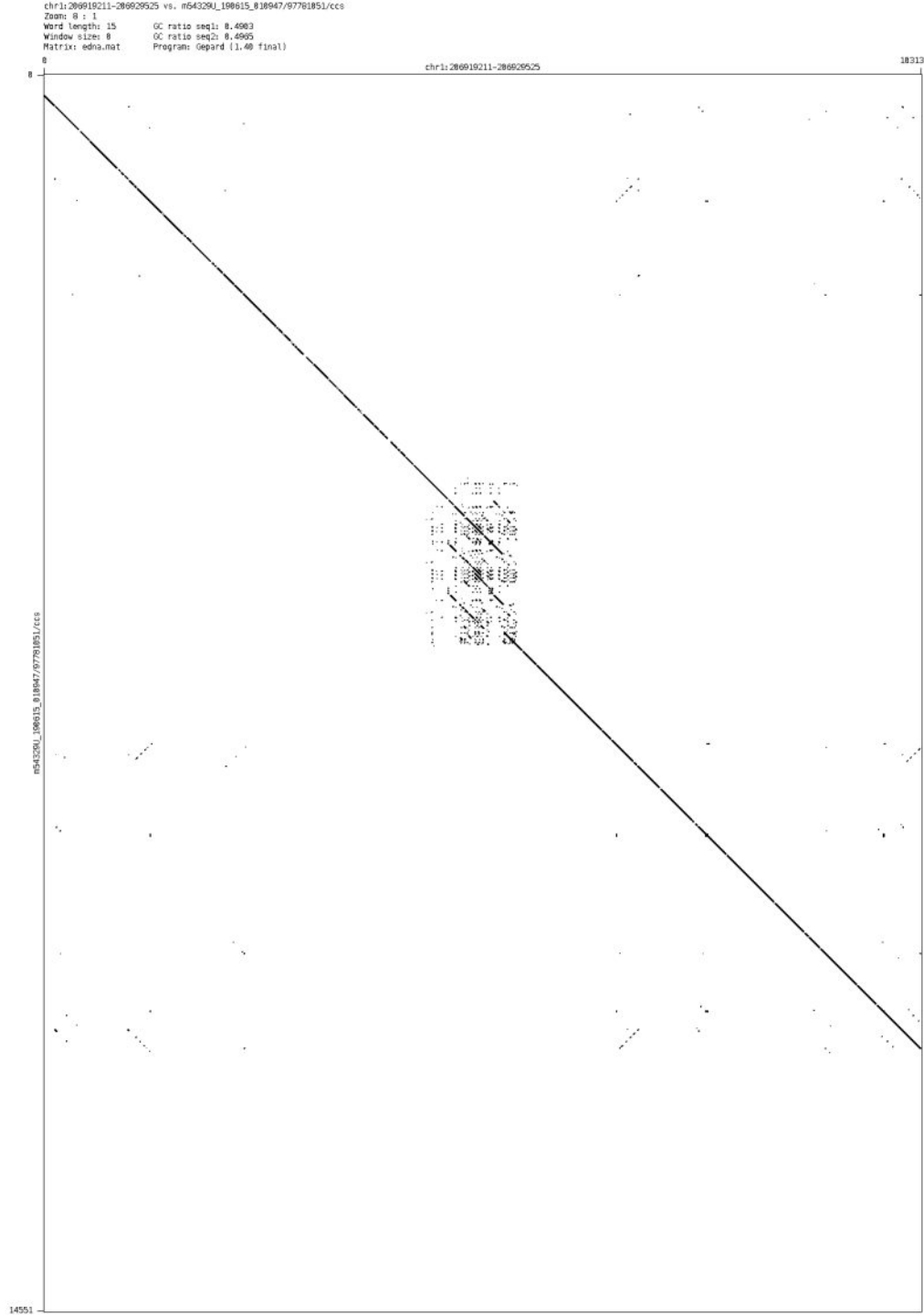




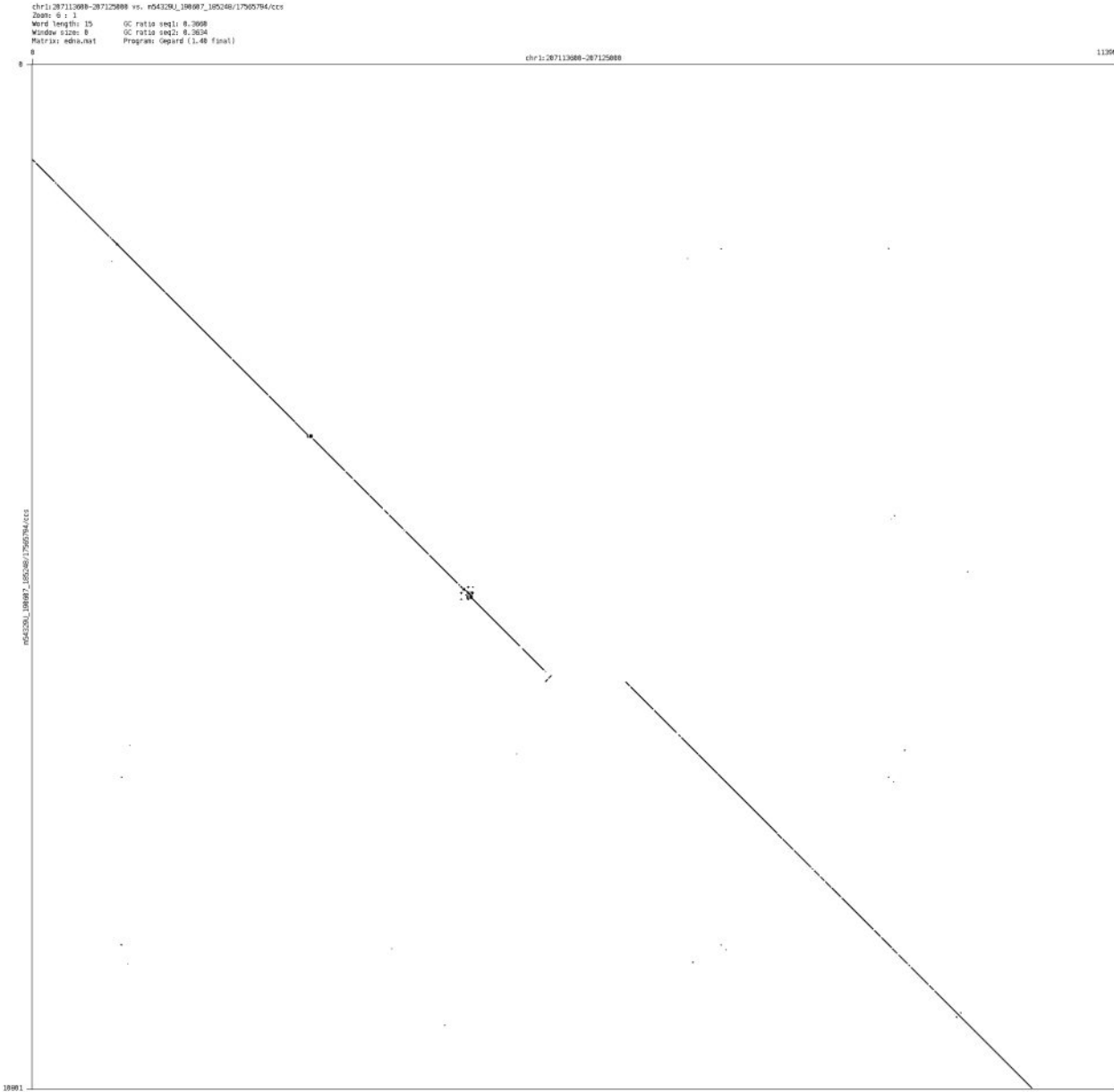
➤ chr1\_202625025\_202625085



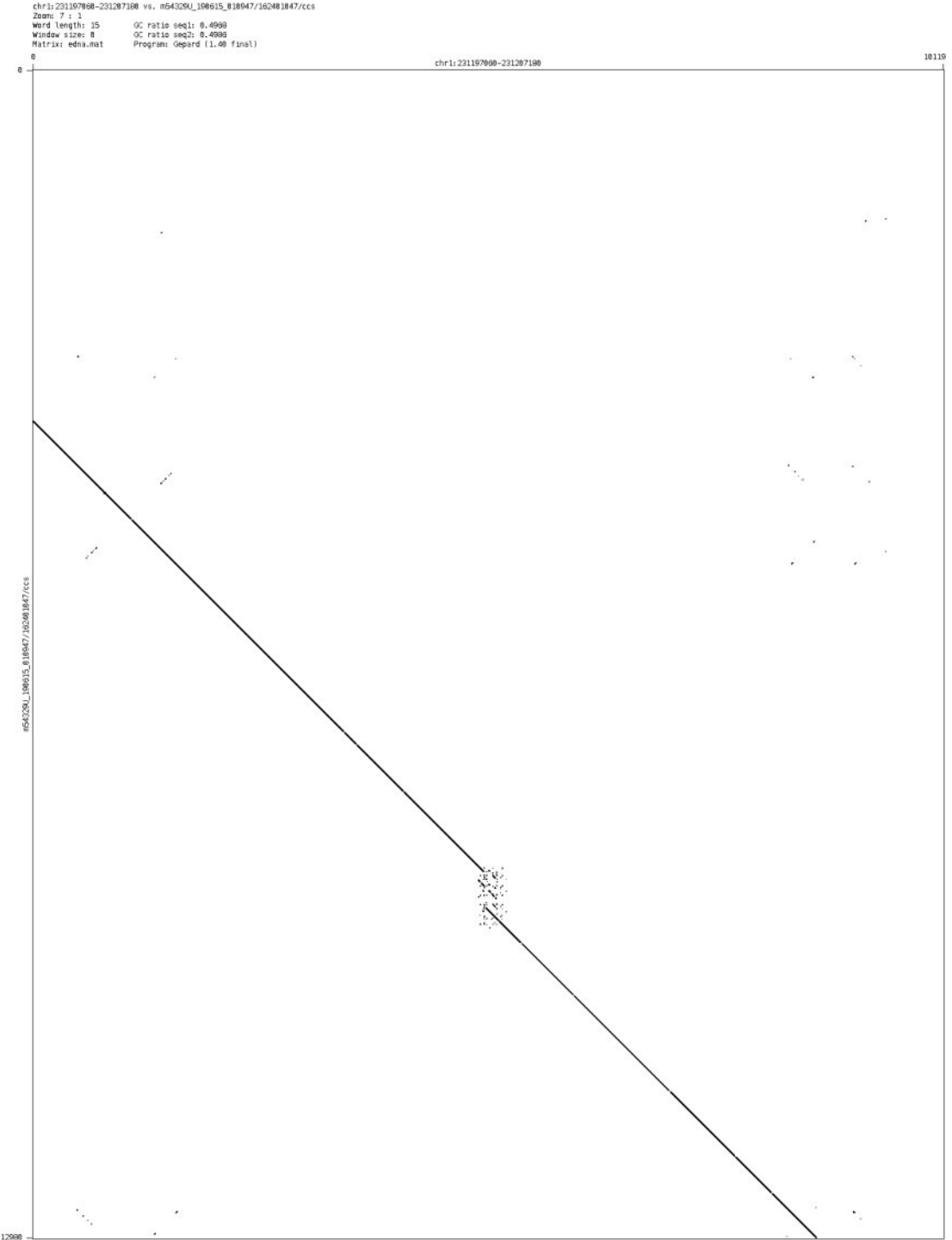
➤ chr1\_206924211\_206924525



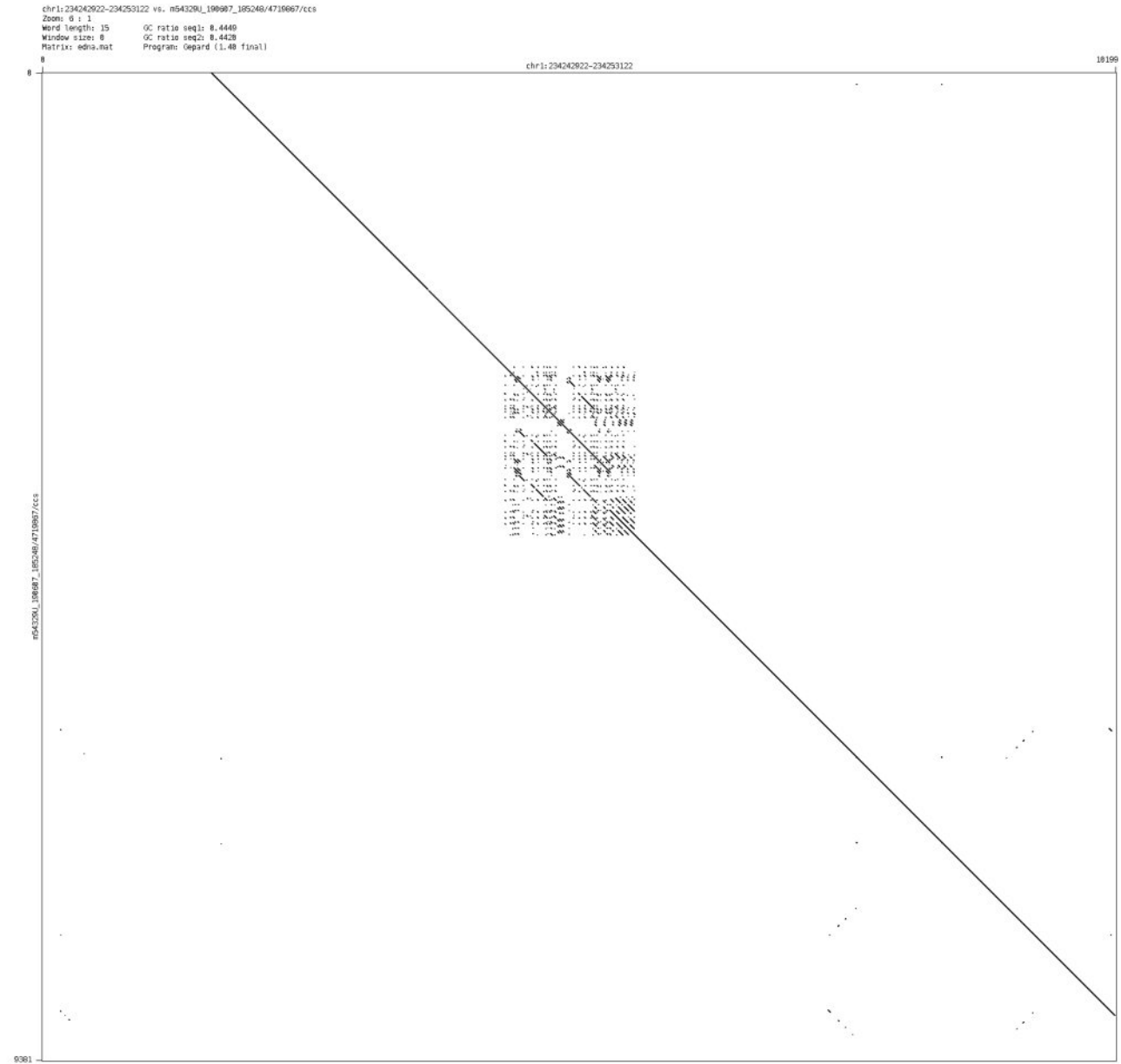
➤ chr1\_207118600\_207120000



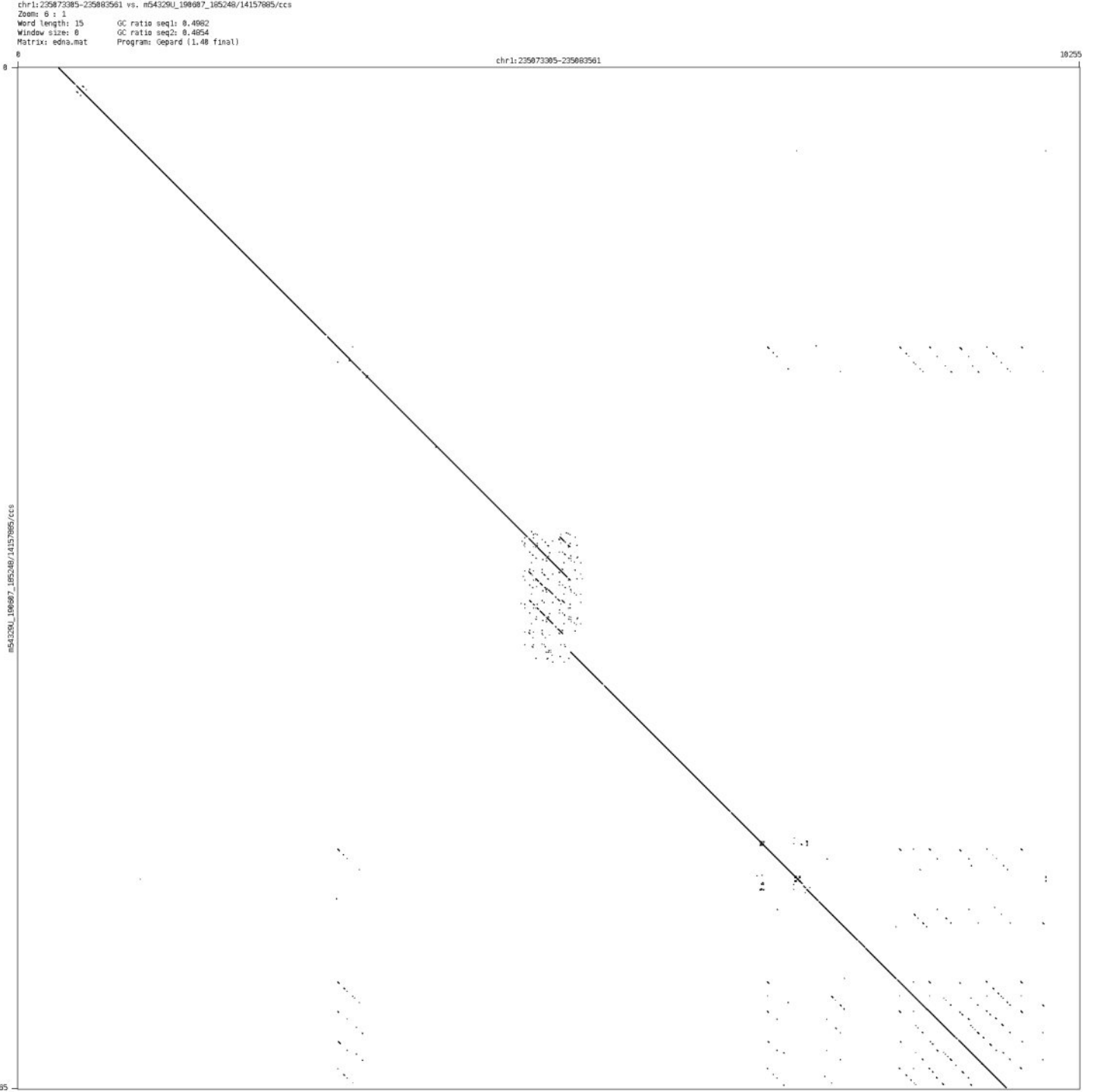
➤ chr1\_231202060\_231202180



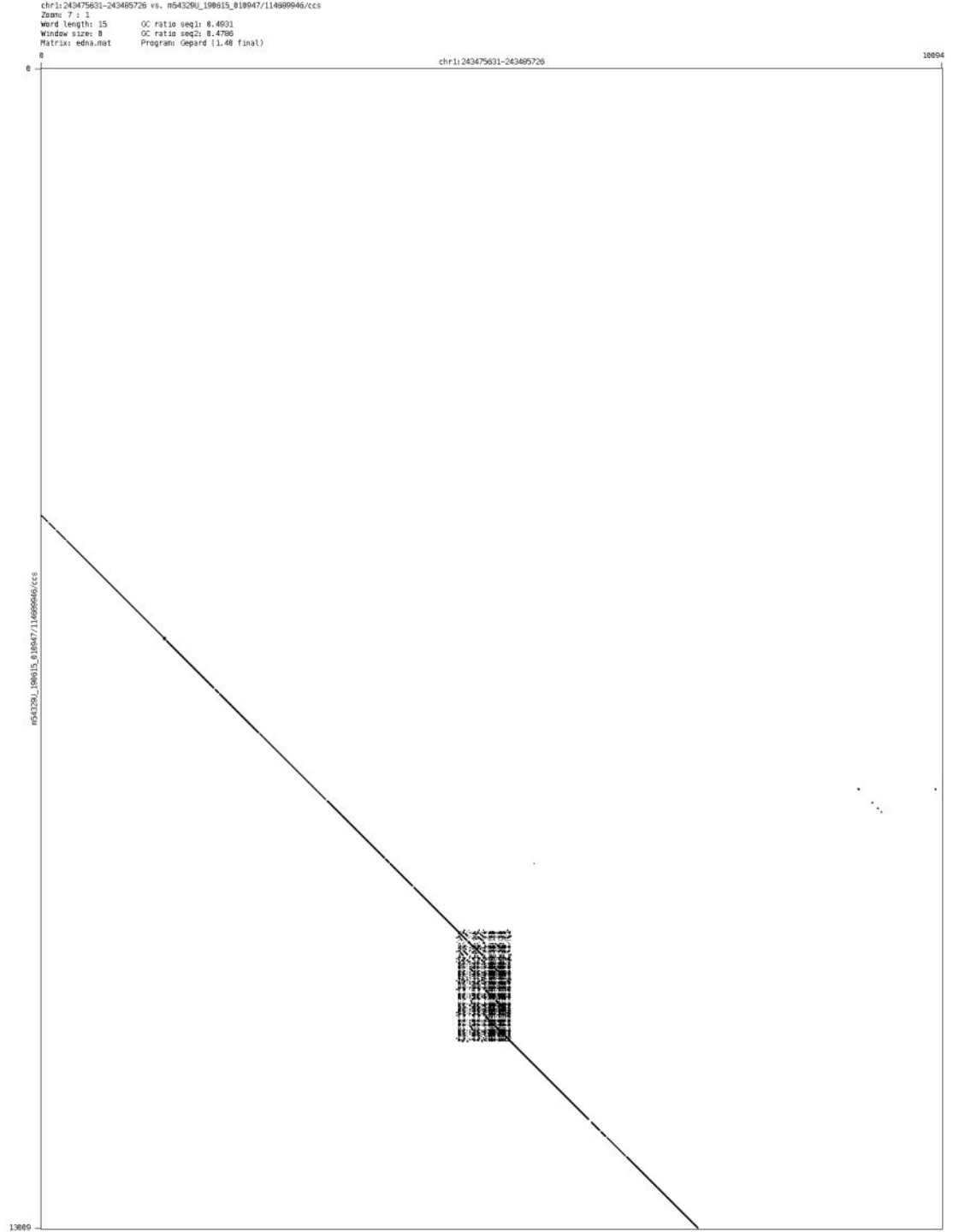
➤ chr1\_234247922\_234248122



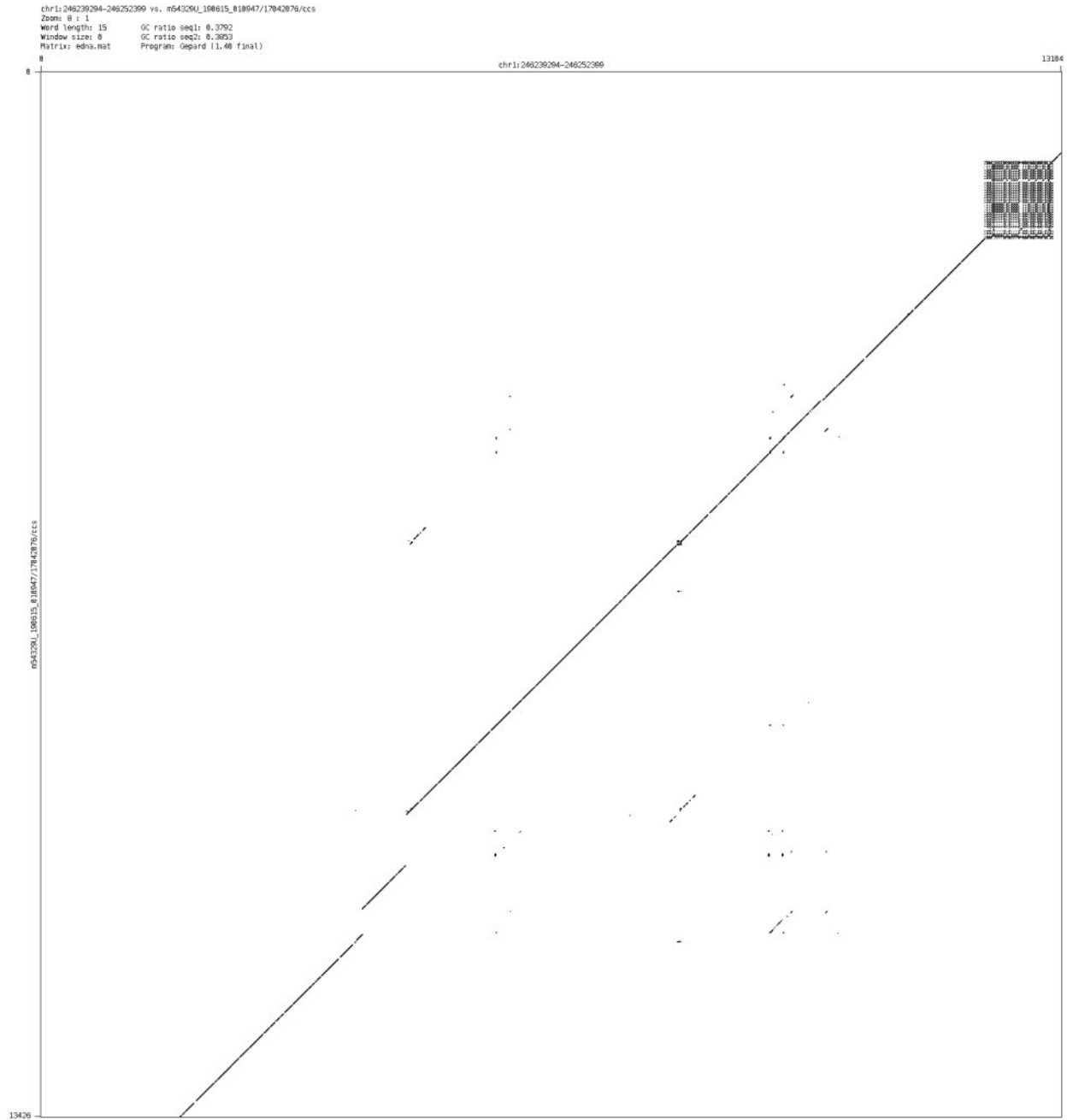
➤ chr1\_235078305\_235078561



➤ chr1\_243480631\_243480726

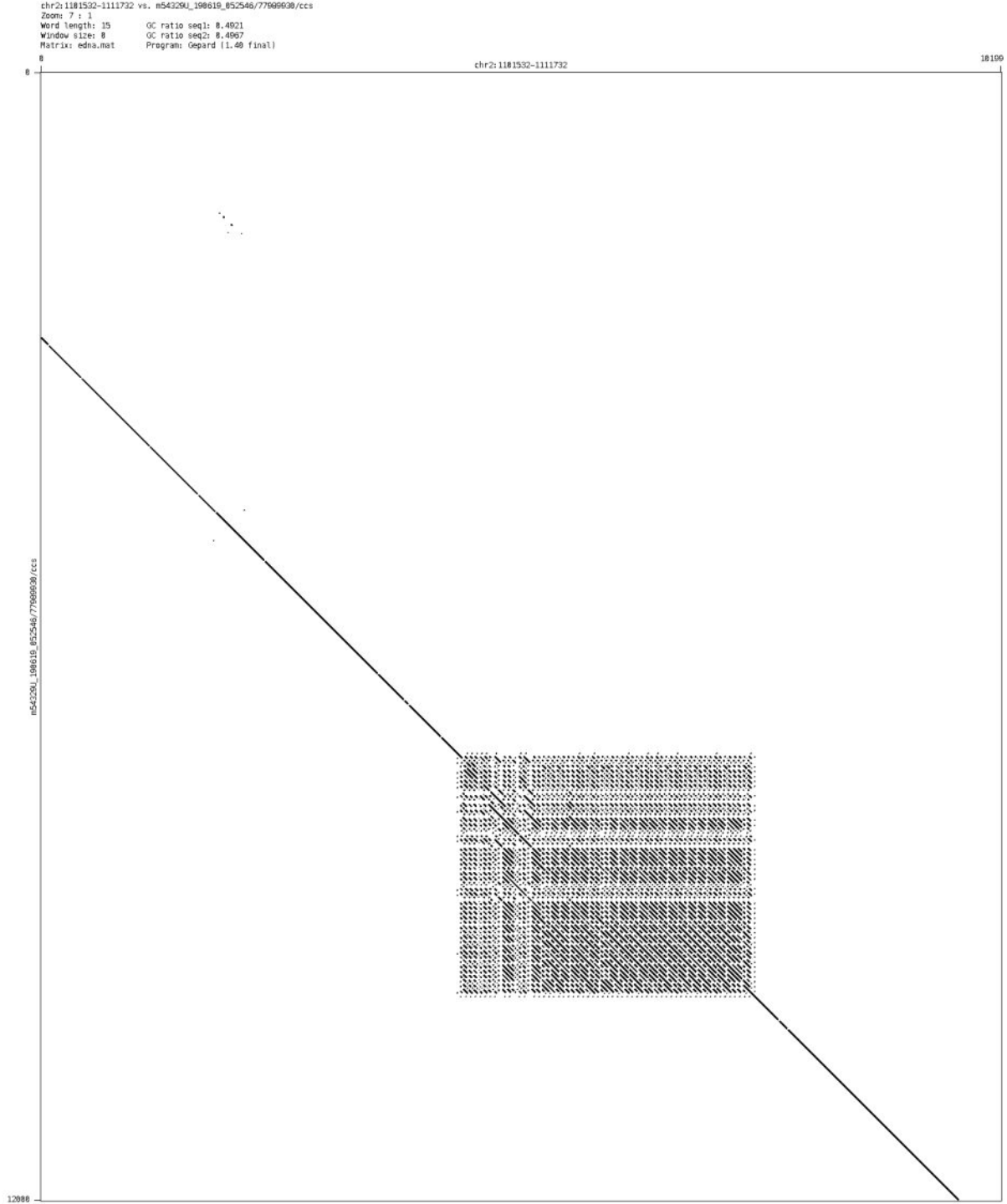


➤ chr1\_246244294\_246247399

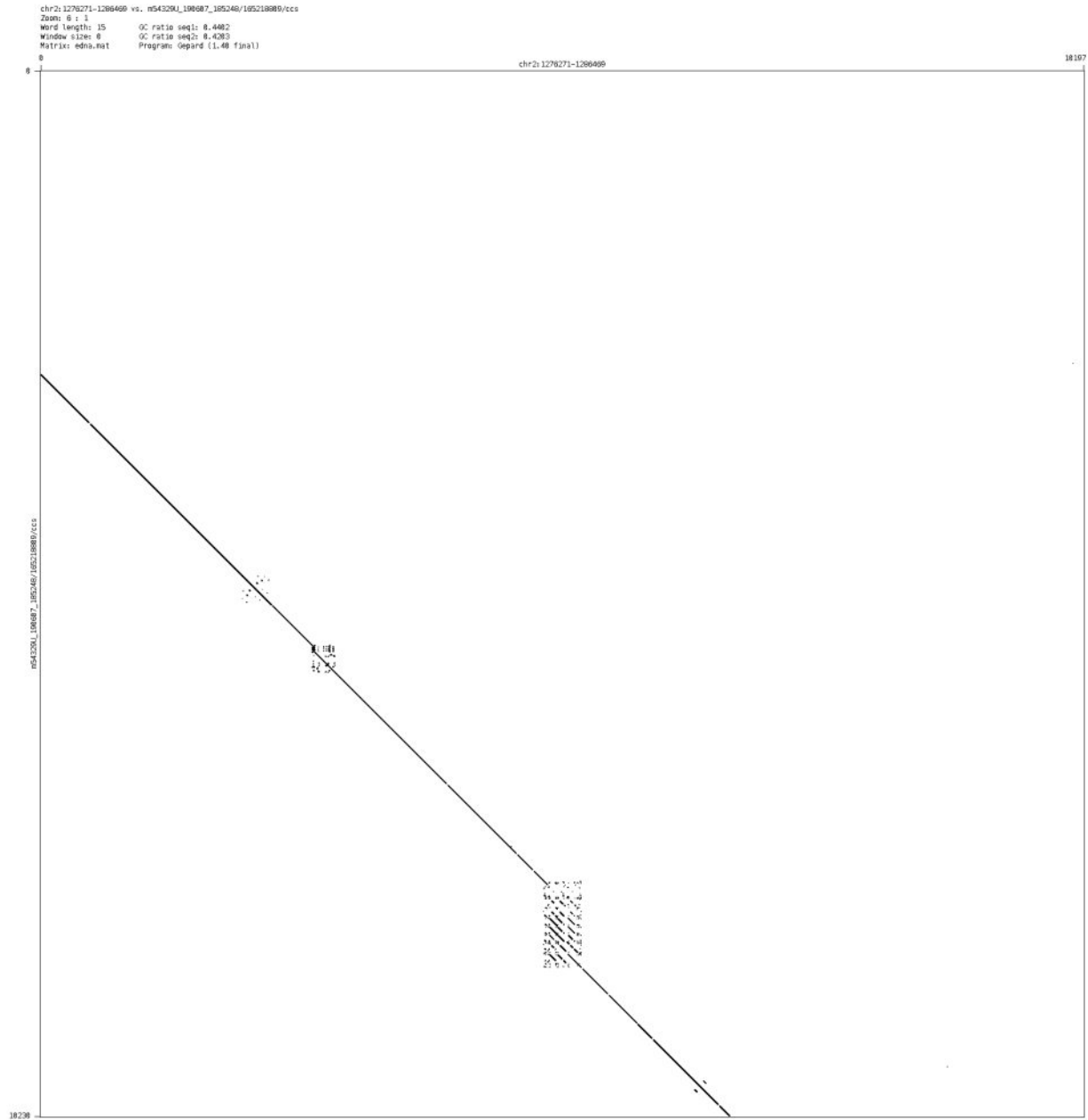




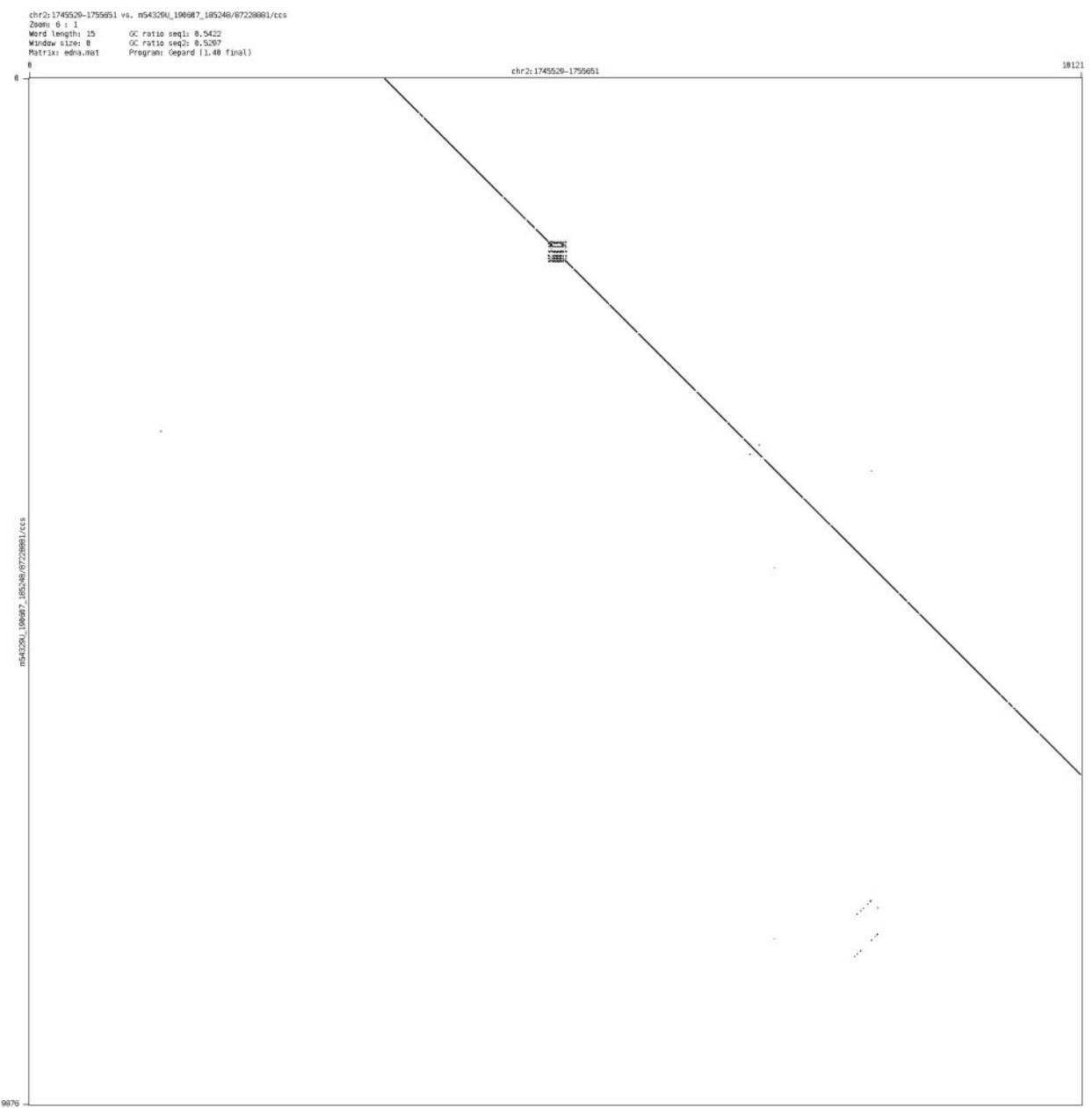
➤ chr2\_1106532\_1106732



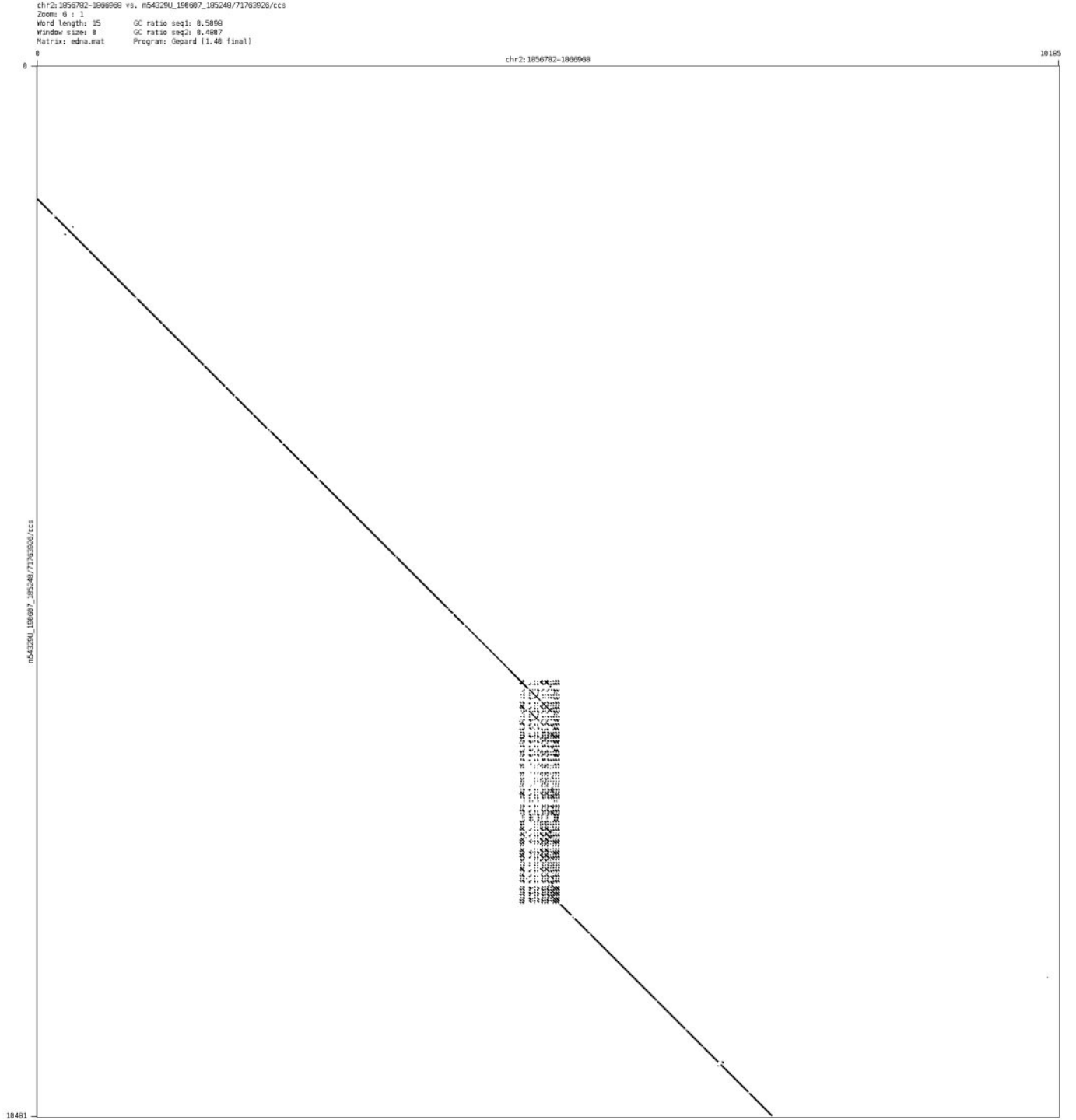
➤ chr2\_1281271\_1281469



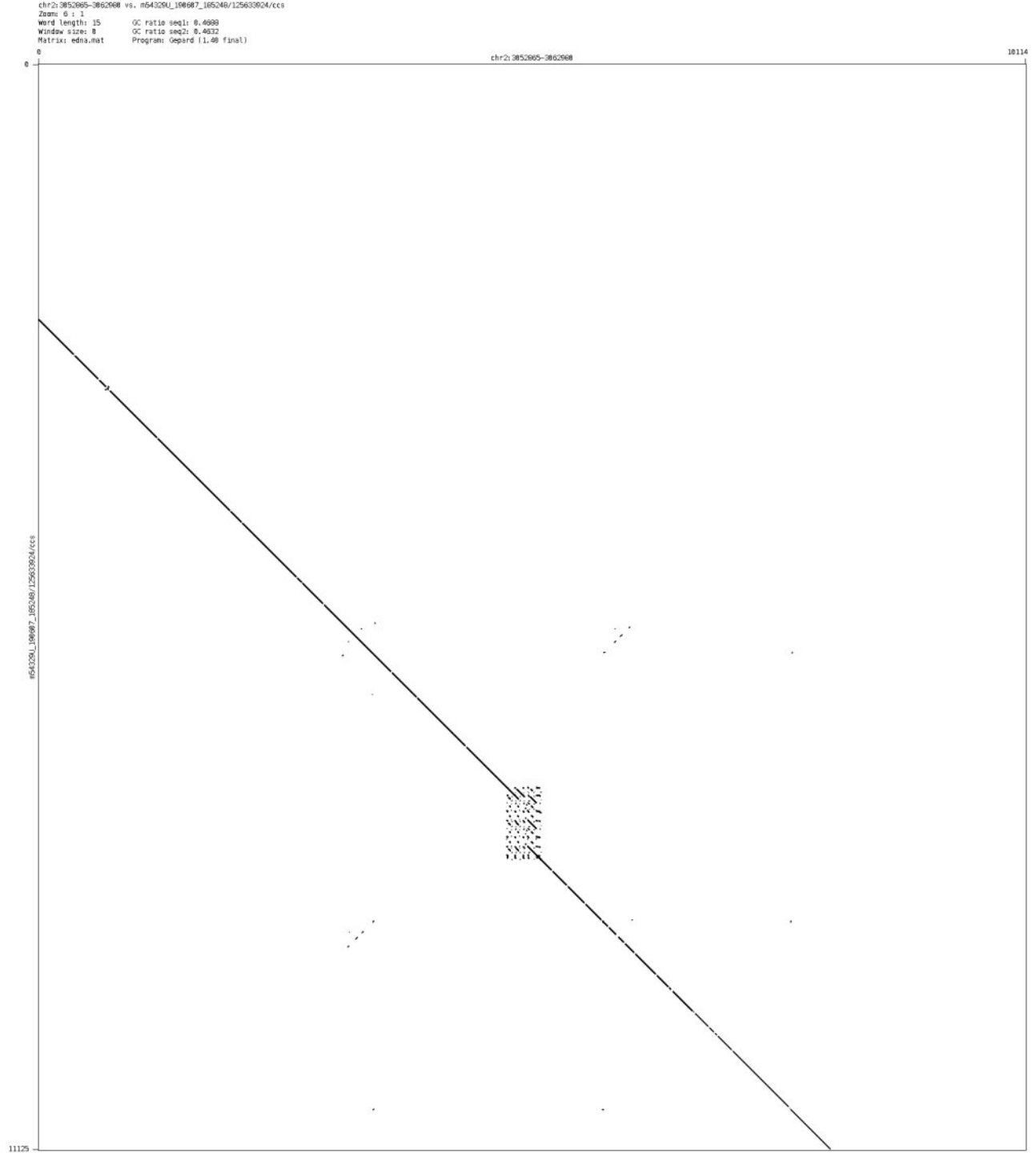
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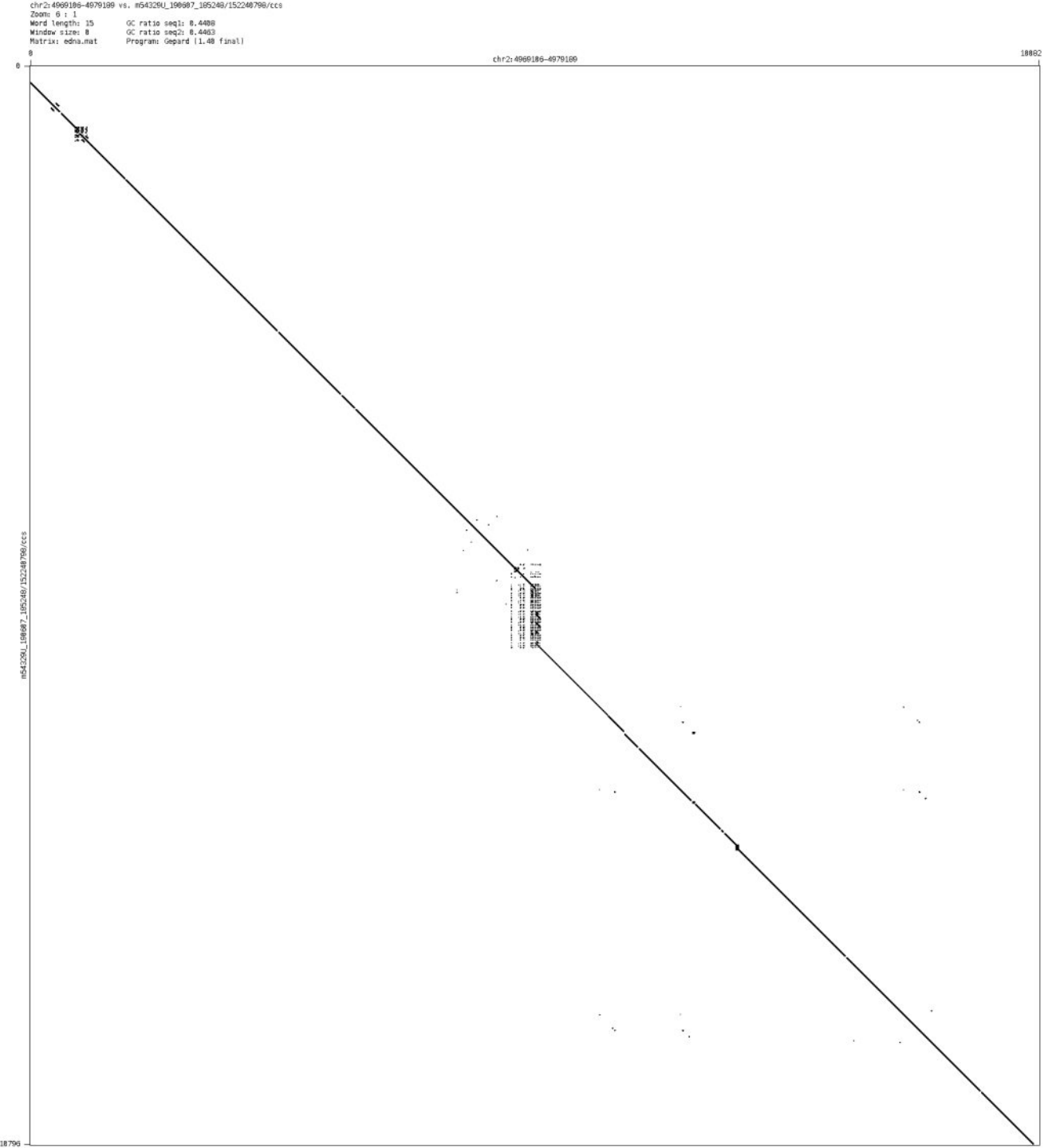
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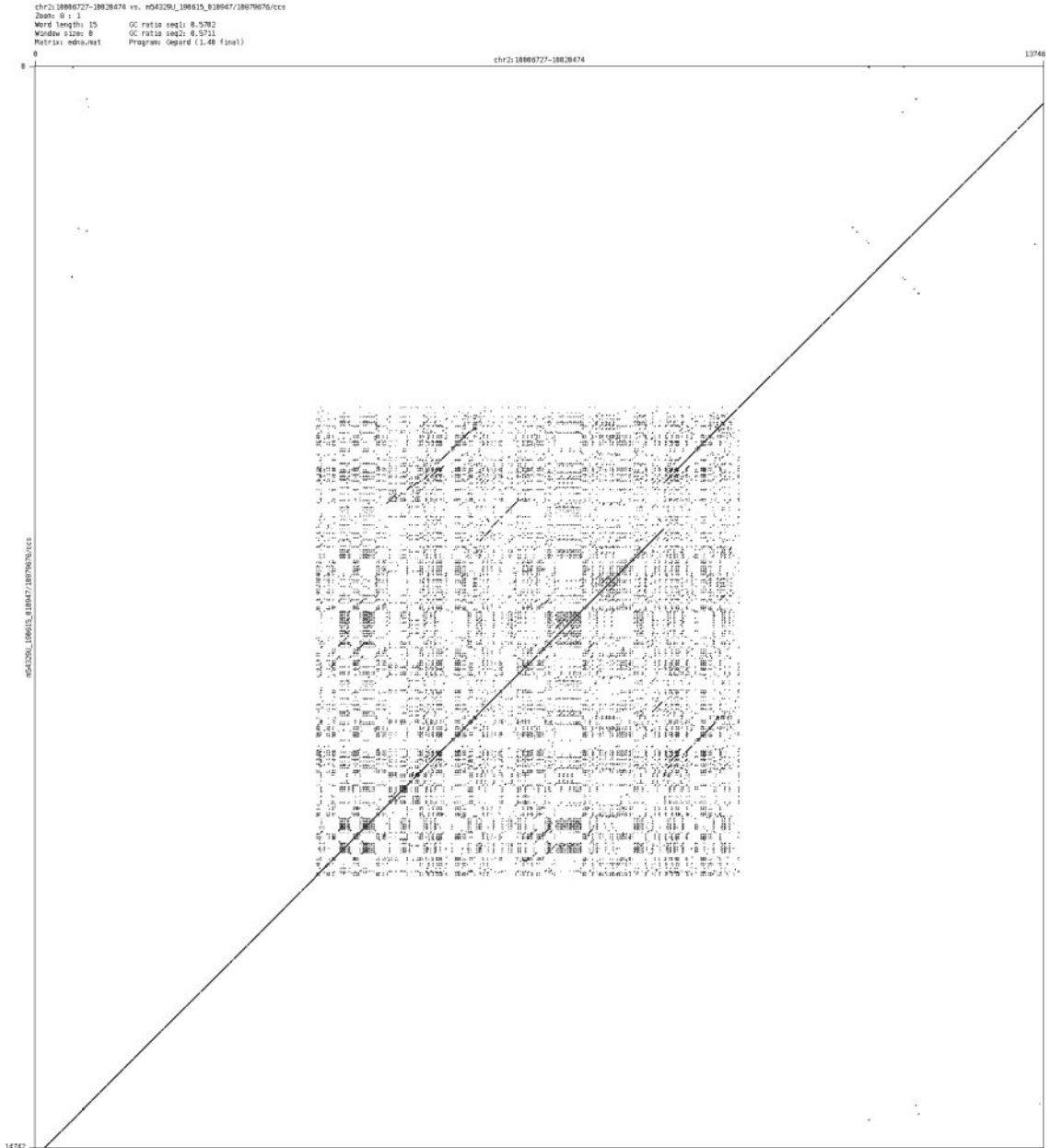
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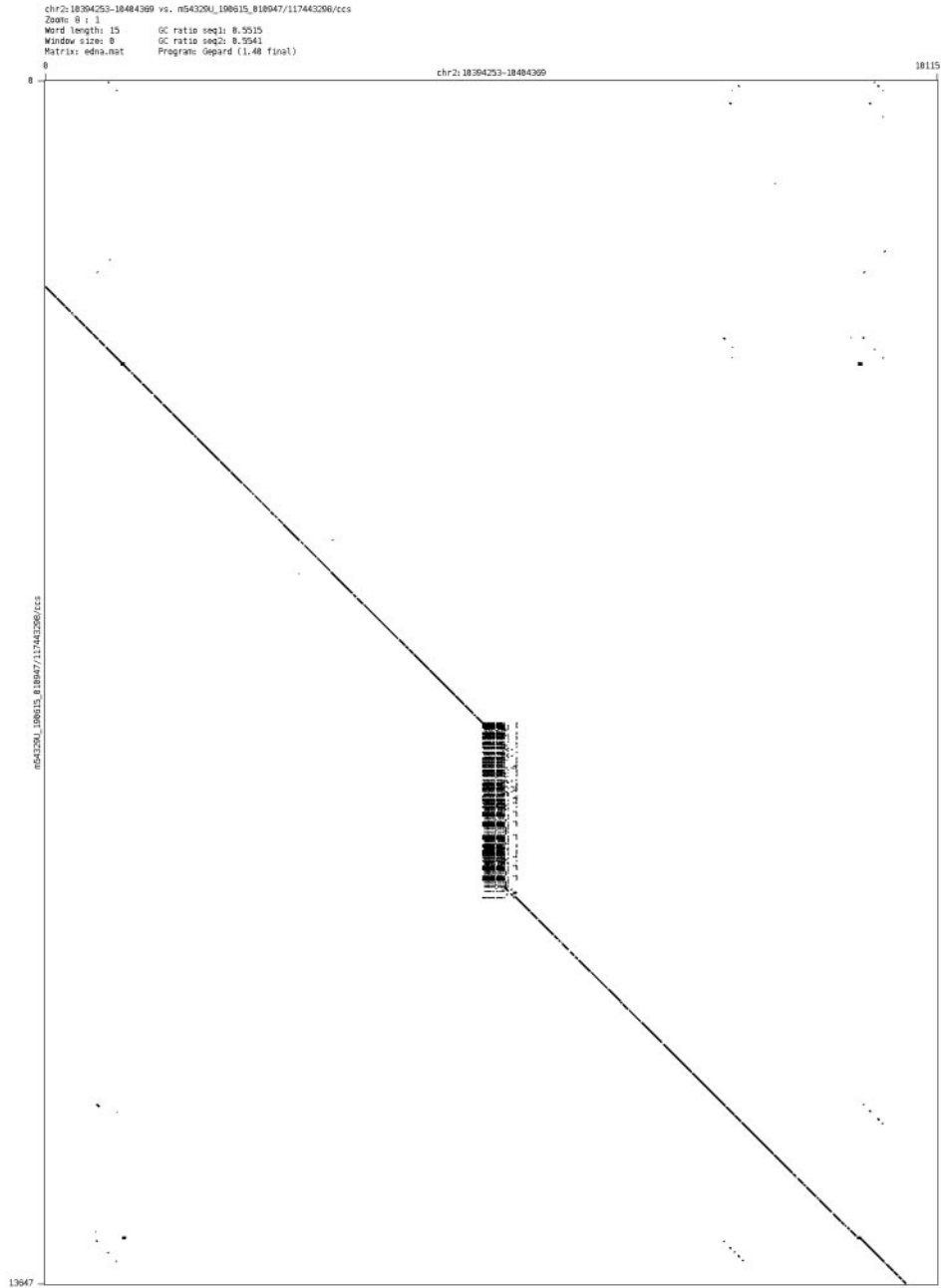
➤ chr2\_4974106\_4974189



➤ chr2\_10011727\_10015474

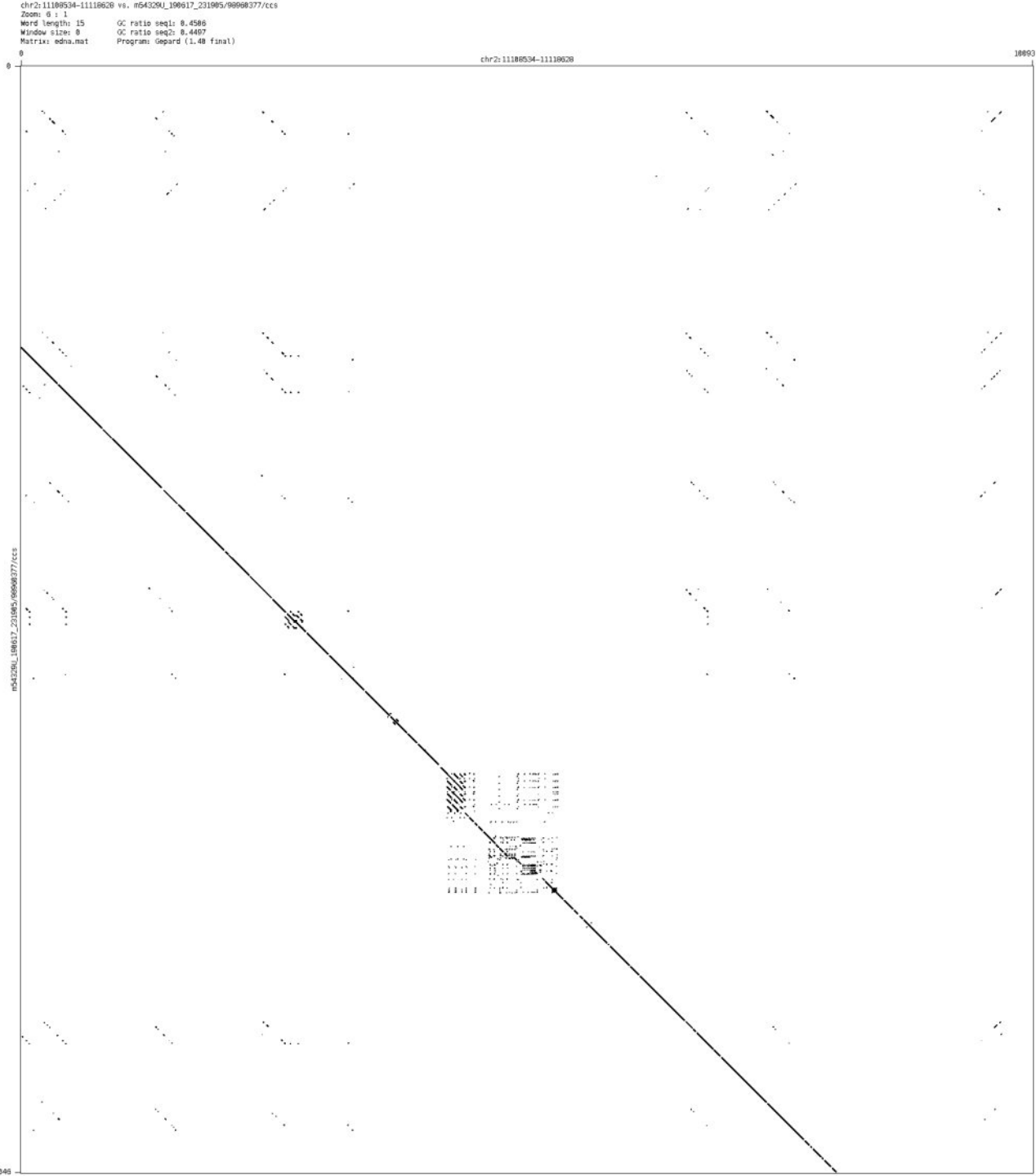


➤ chr2\_10399253\_10399369

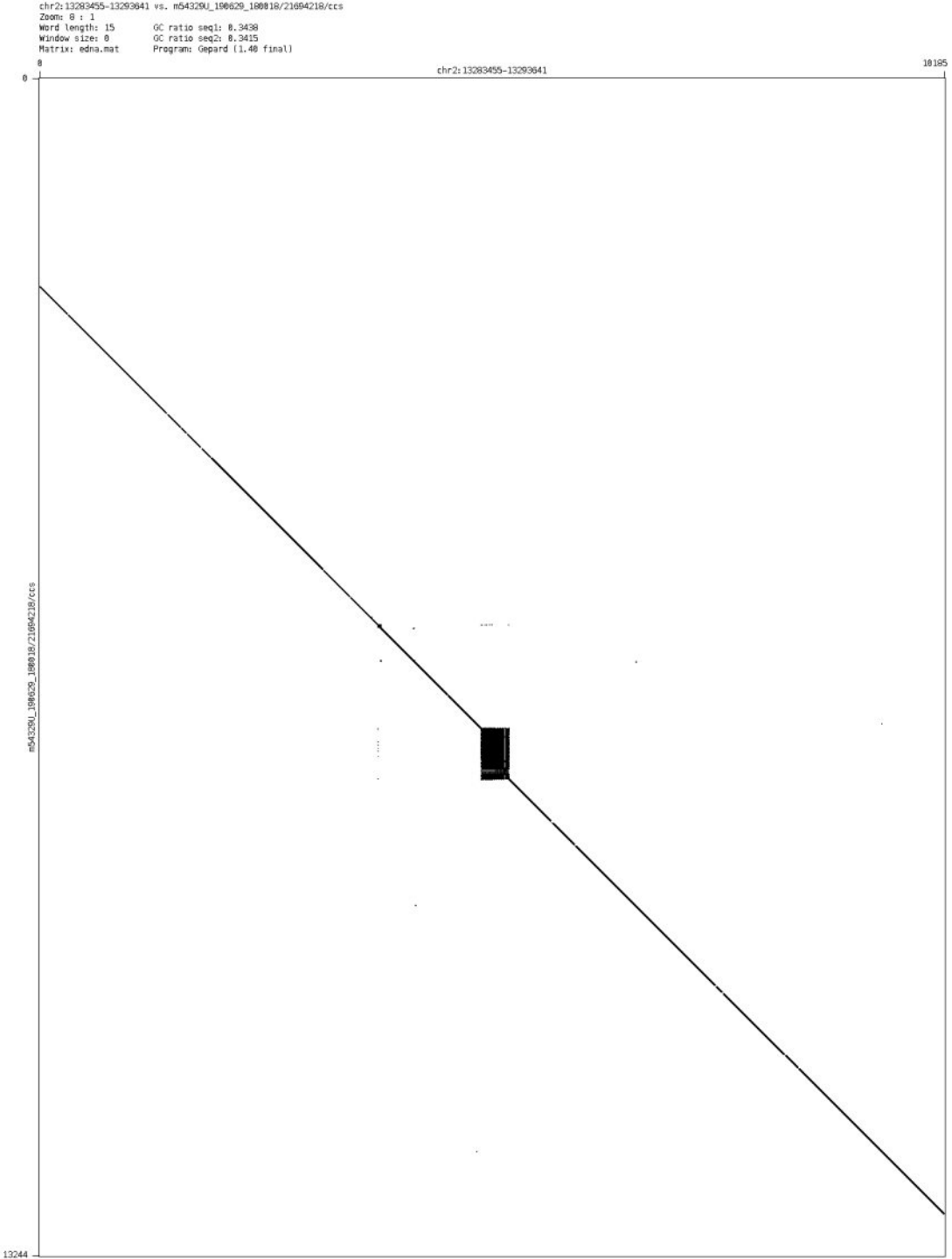




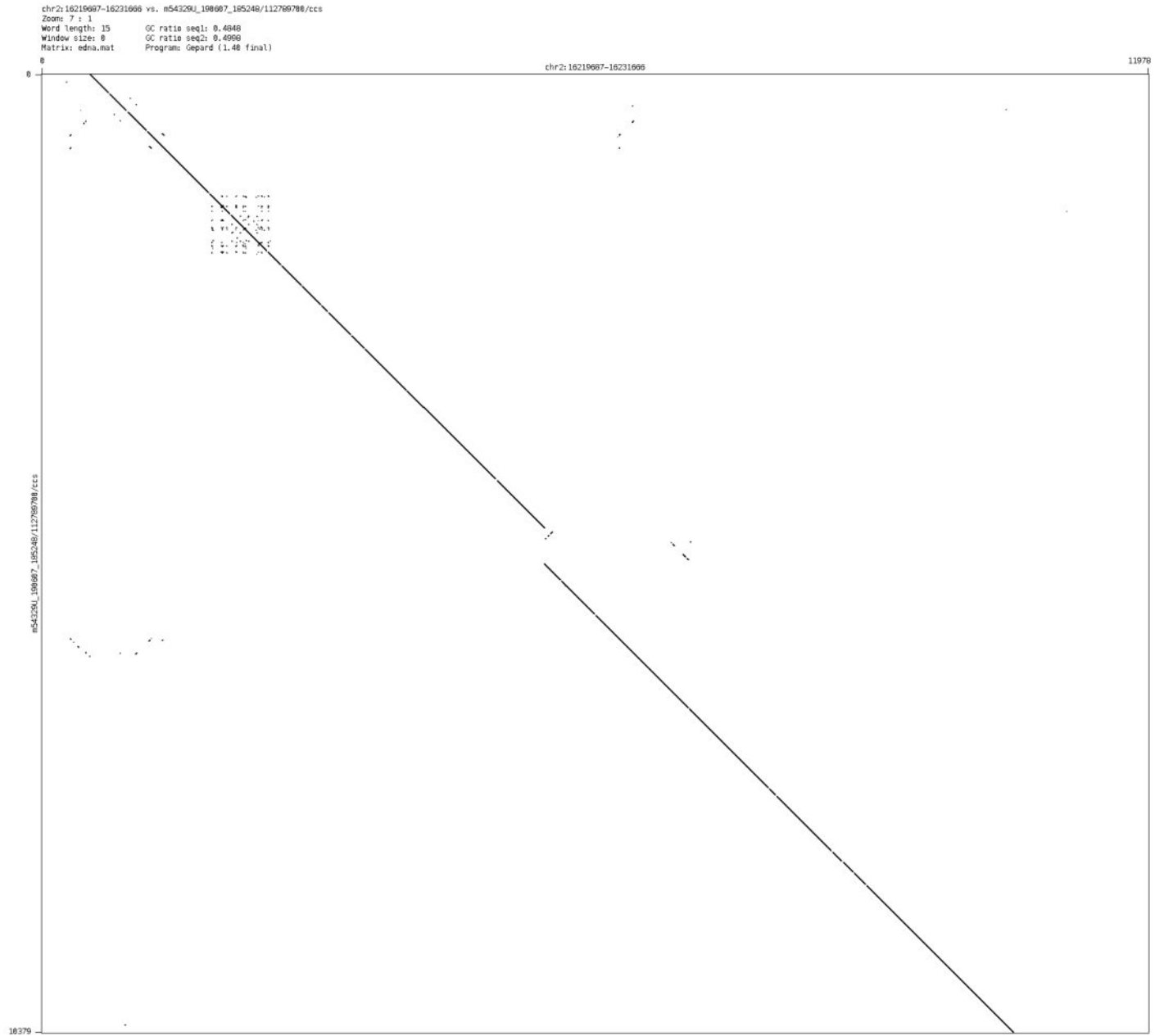
➤ chr2\_11113534\_11113628



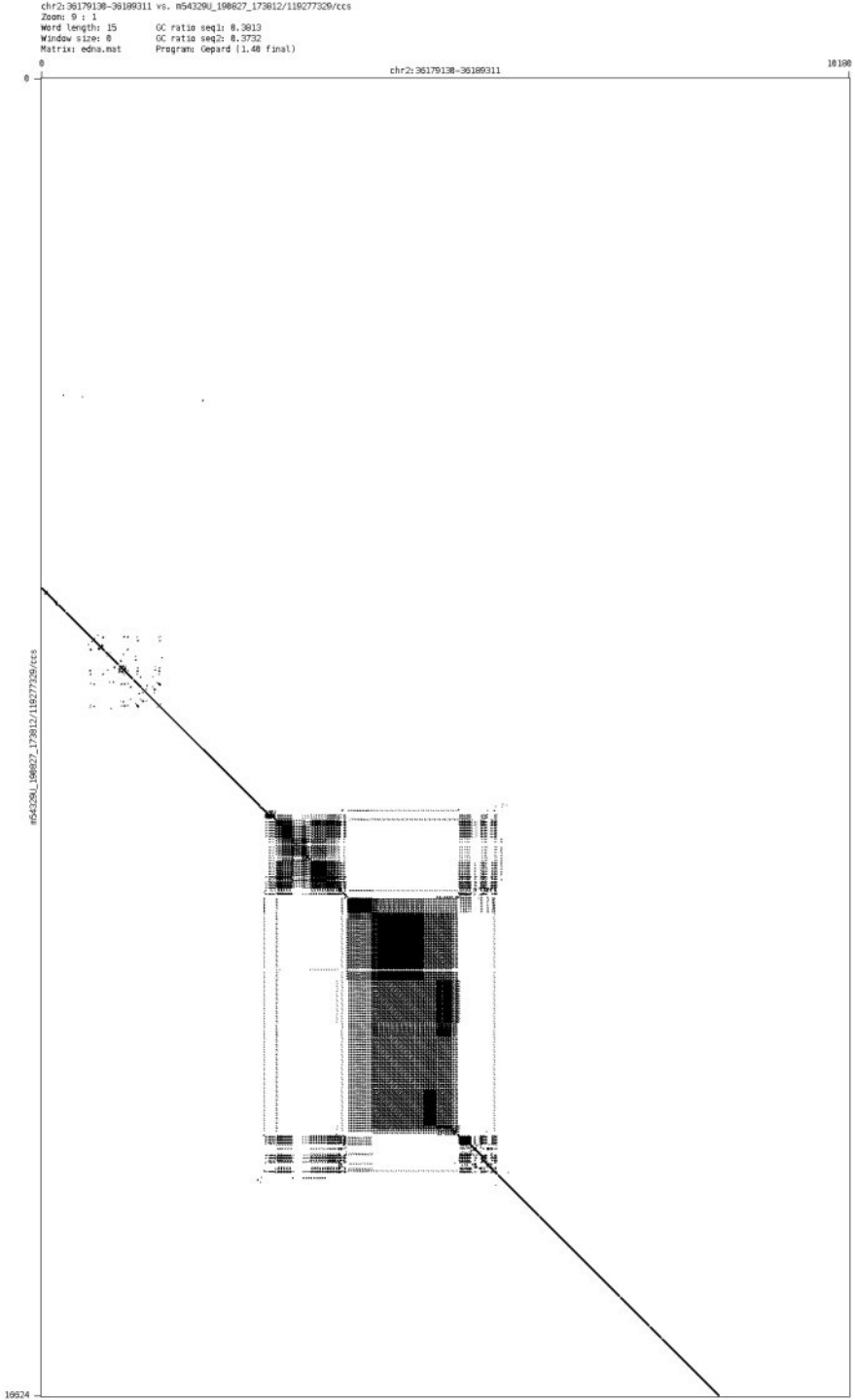
➤ chr2\_13288455\_13288641



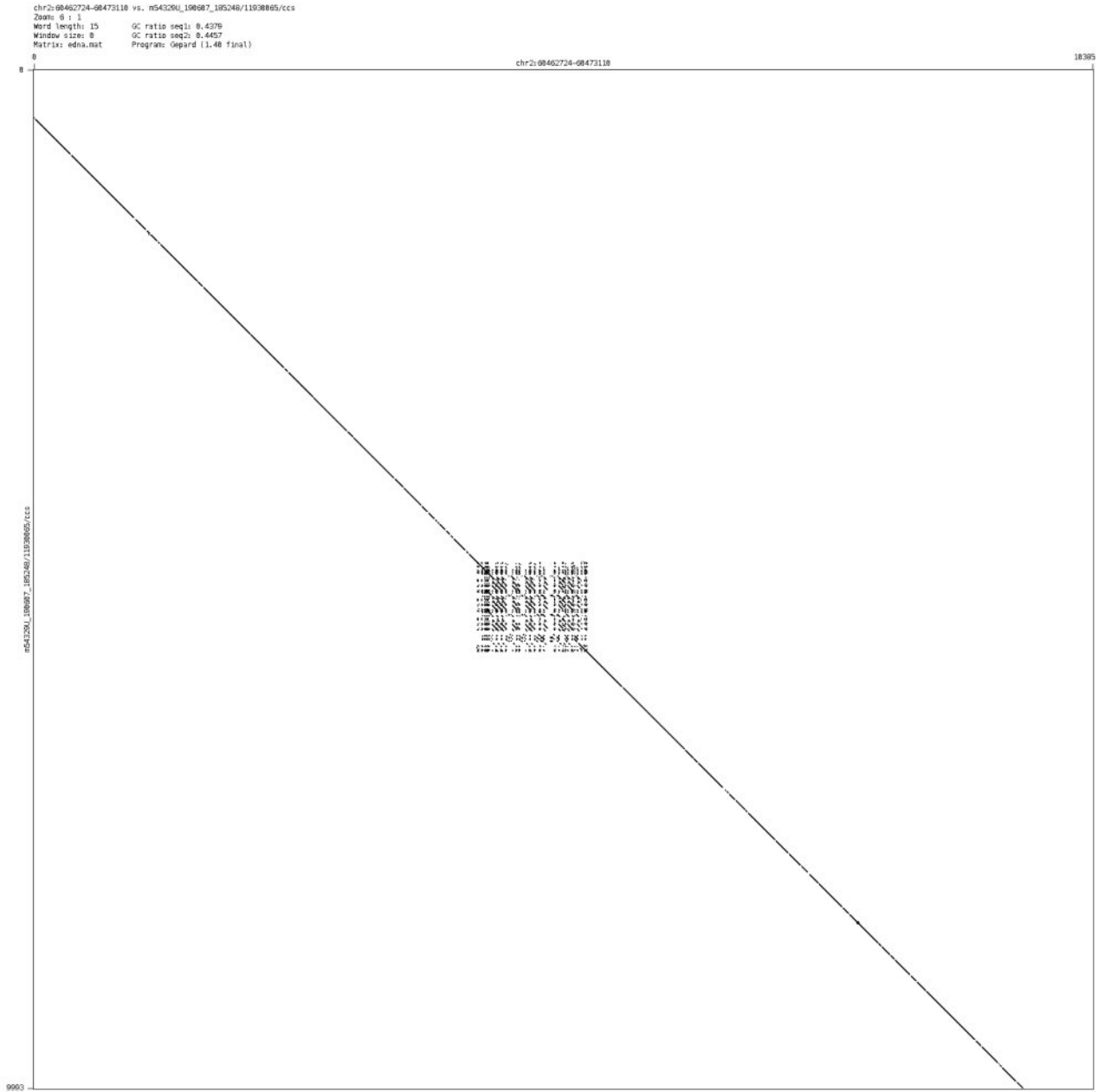
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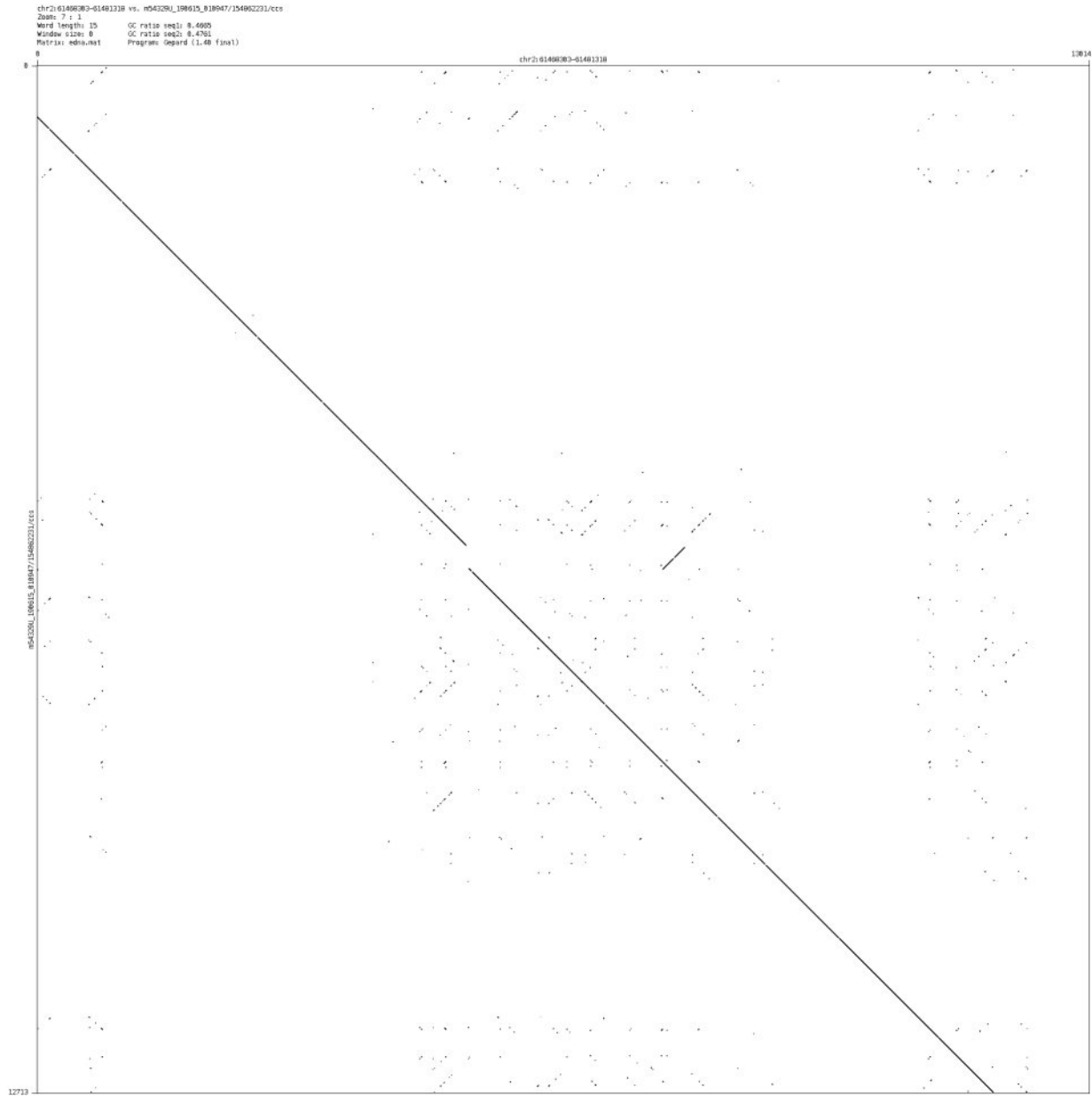
➤ chr2\_36184130\_36184311



➤ chr2\_60467724\_60468110

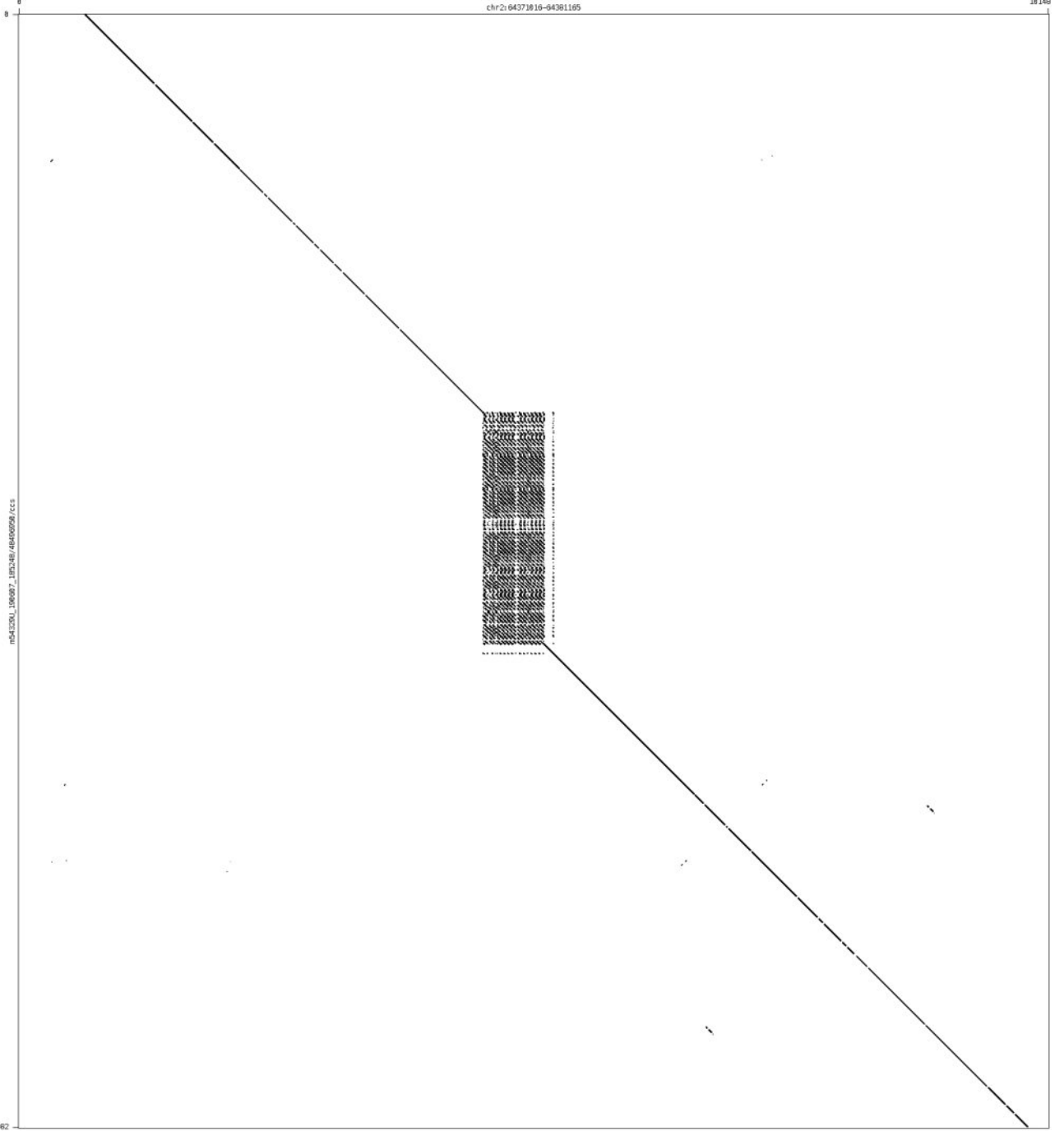


➤ chr2\_61473303\_61476318

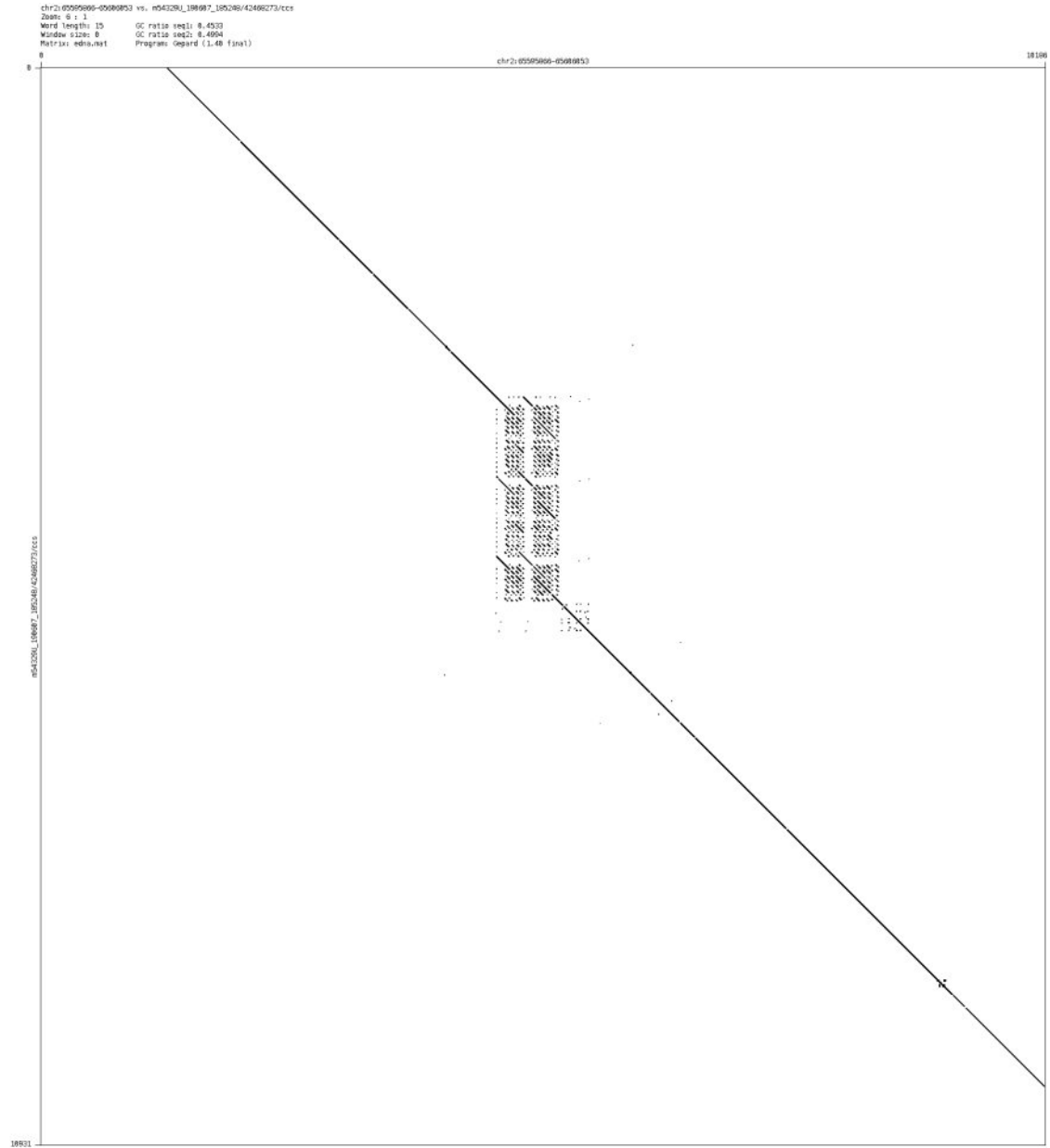


➤ chr2\_64376016\_64376165

chr2:64371816-64381165 vs. n54320U\_190907\_185248/48499959/ccc  
Zoom: 0 : 1  
Word length: 15 GC ratio seq1: 0.4556  
Window size: 0 GC ratio seq2: 0.4718  
Matrix: edna.mat Program: oepard (1.48 final)

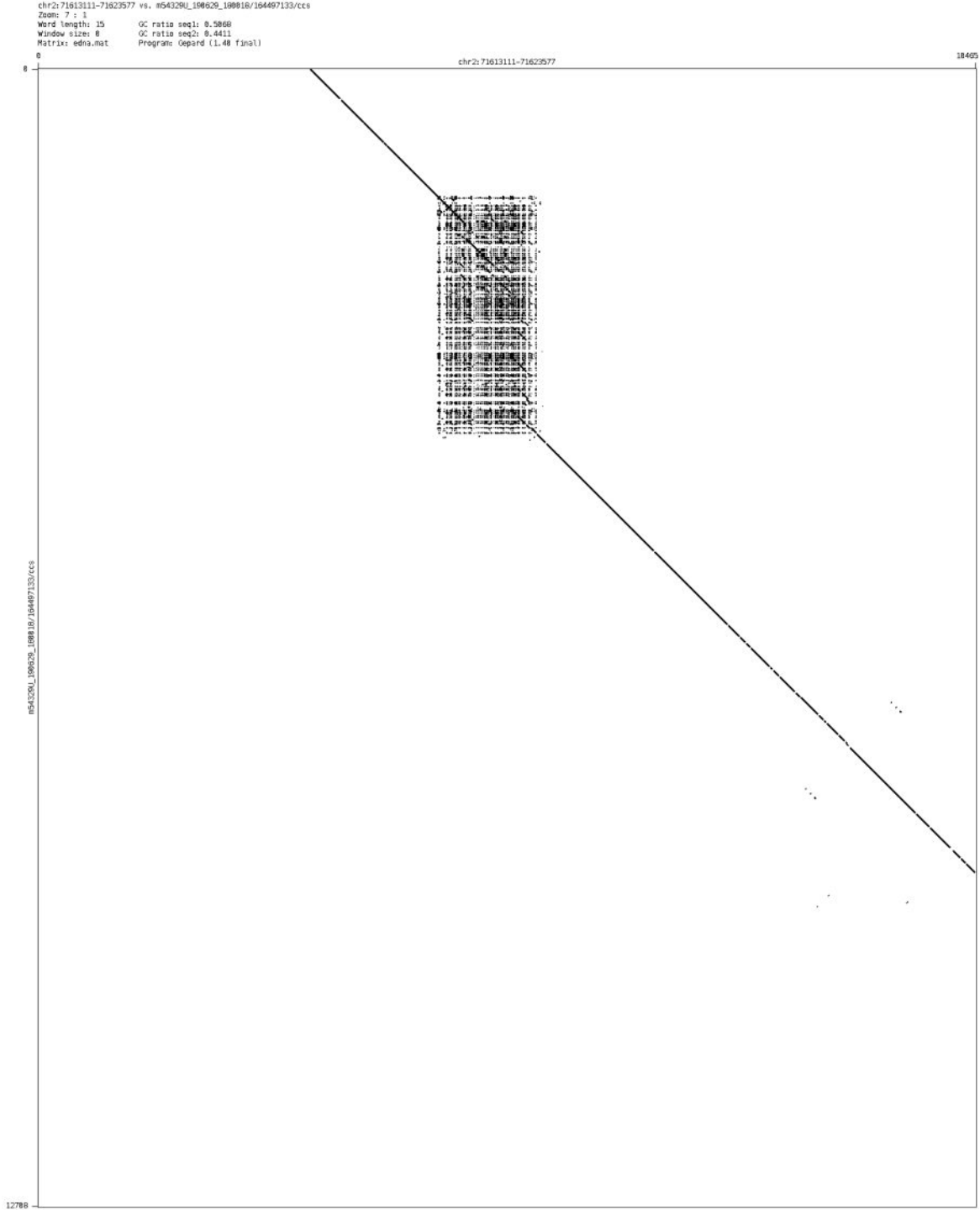


➤ chr2\_65600866\_65601053



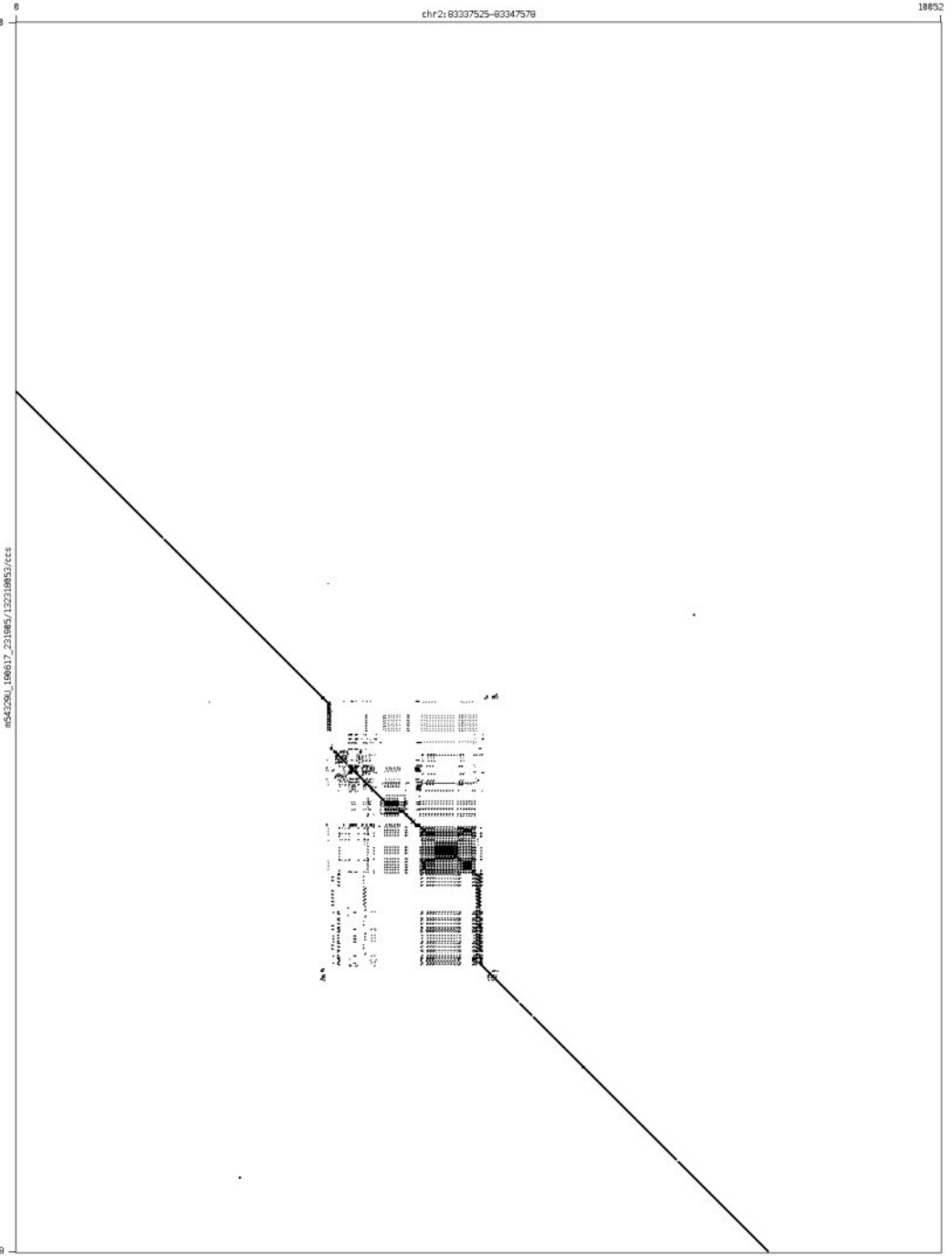


➤ chr2\_71618111\_71618577

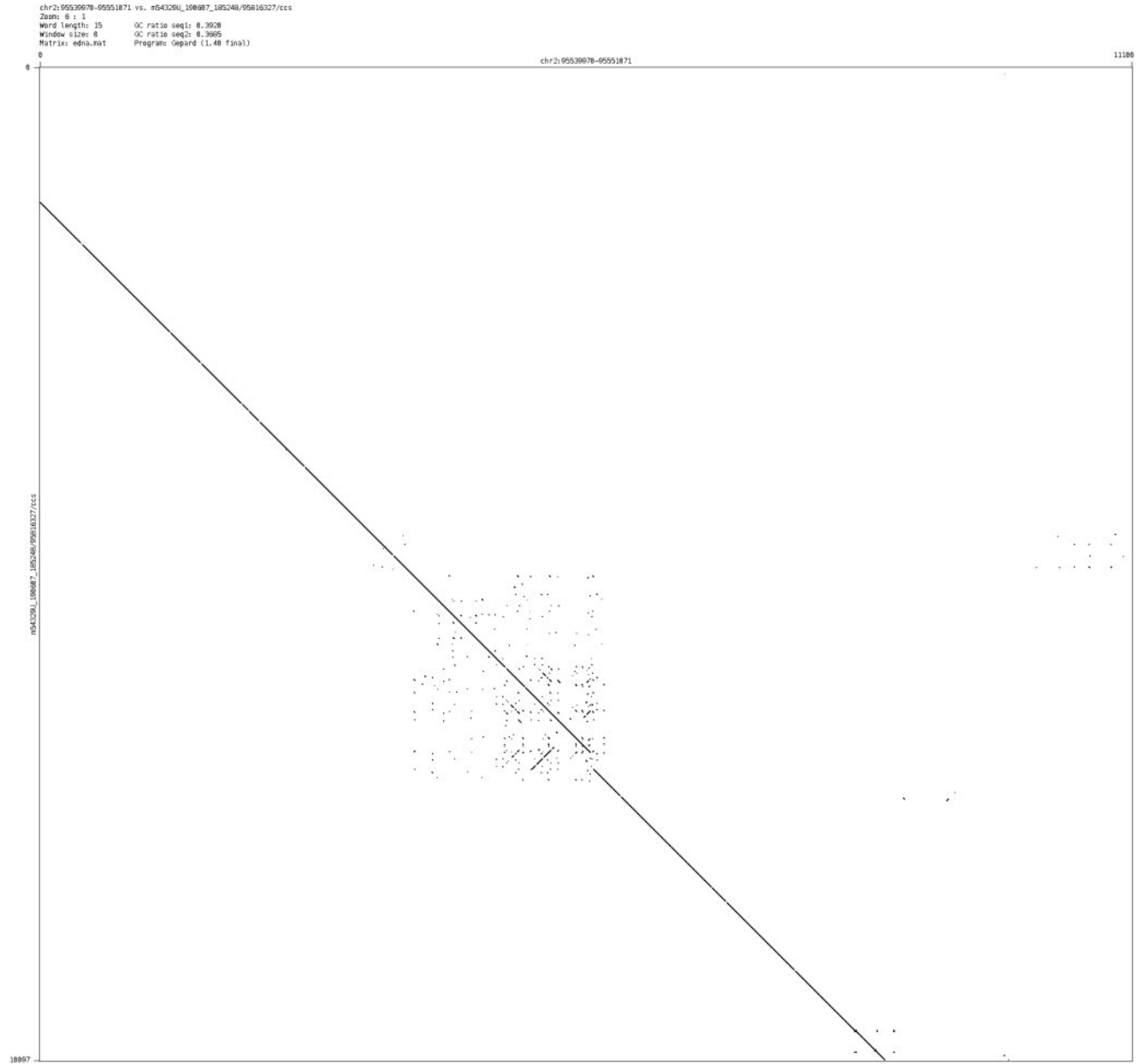


➤ chr2\_83342525\_83342578

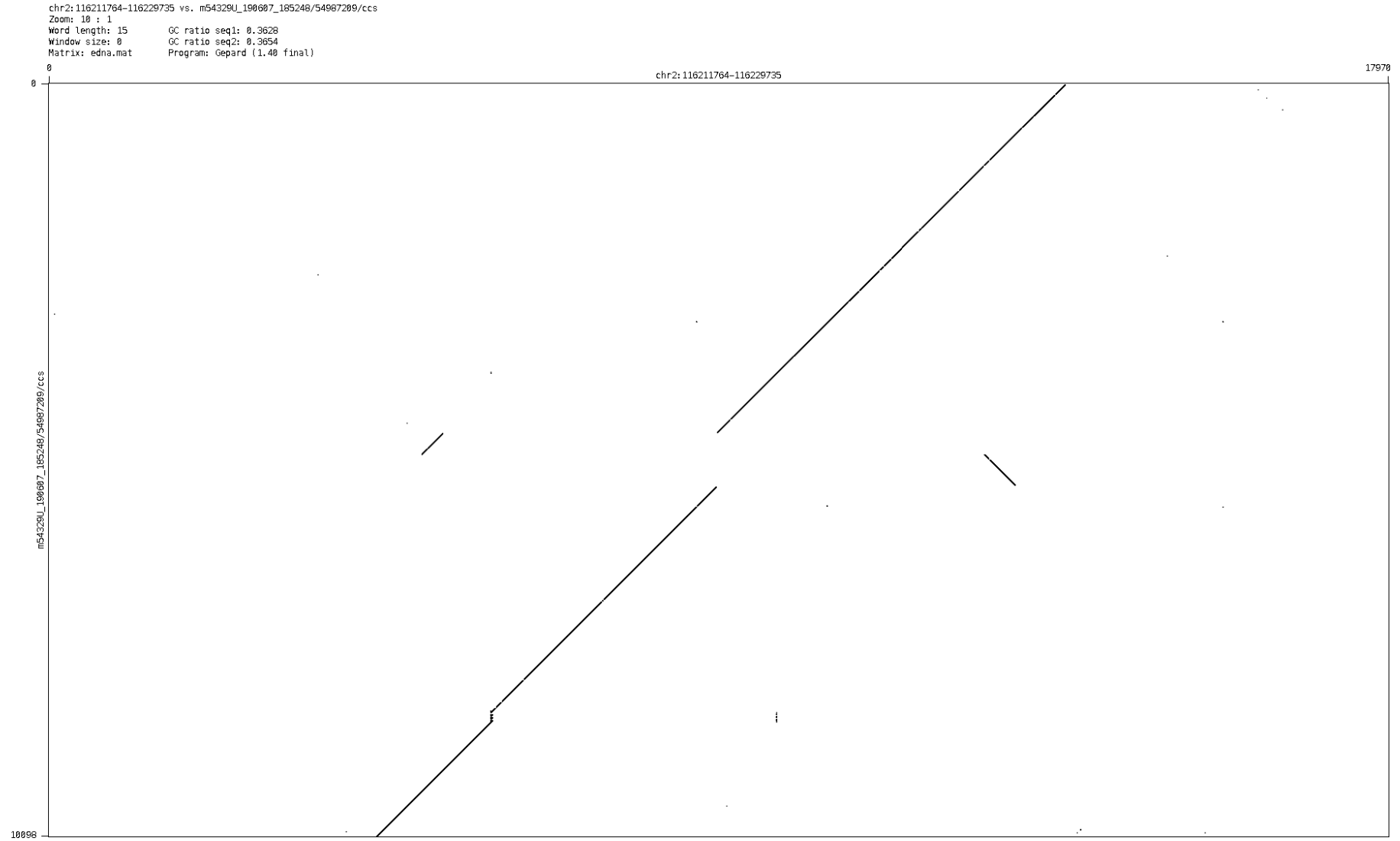
chr2:8337525-83347578 vs. m54329U\_196617\_231985/132318953/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 8.2728  
Window size: 0 GC ratio seq2: 8.2694  
Matrix: edna.mat Program: Gepard (1.48 final)



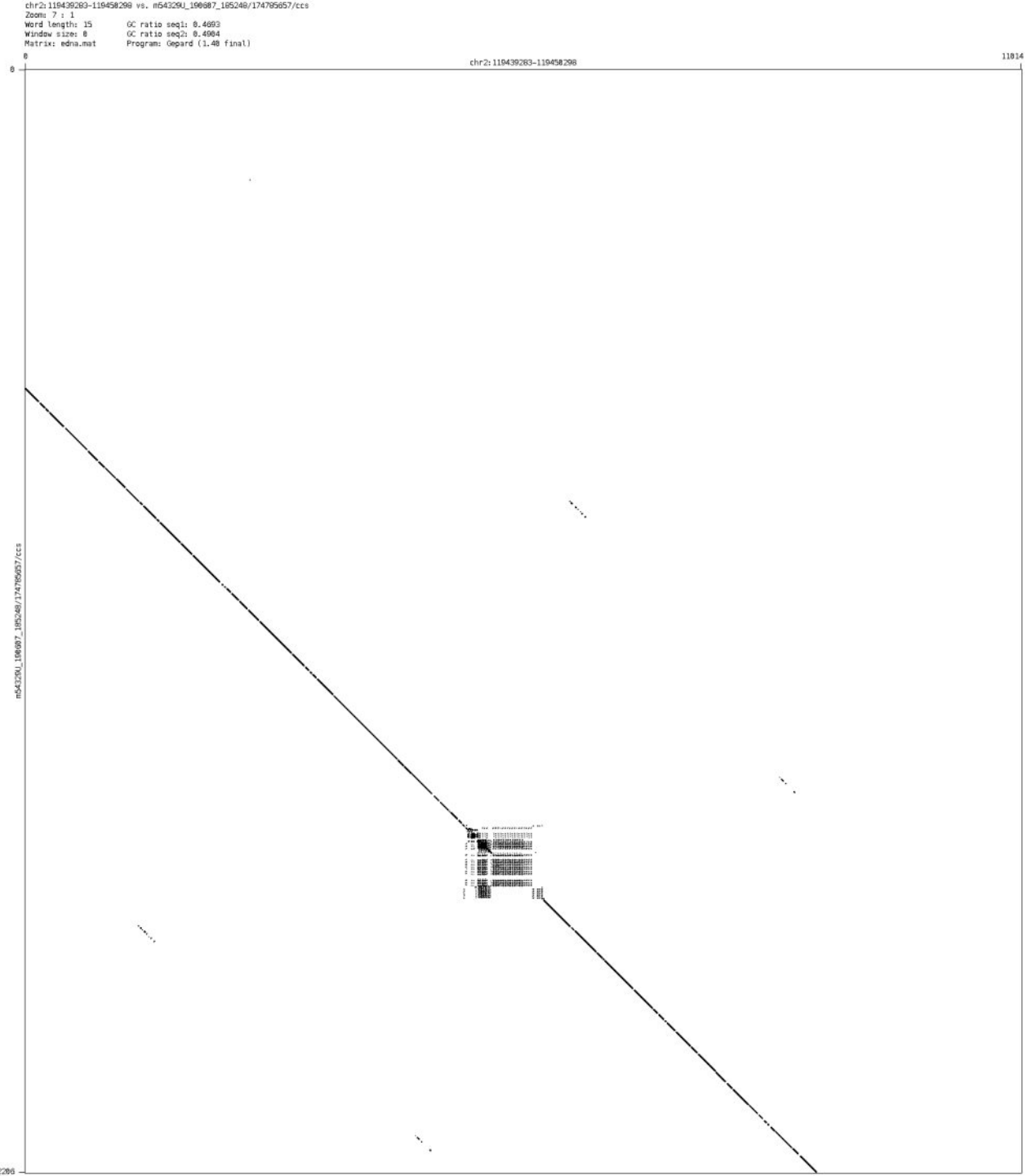
➤ chr2\_95544970\_95546071



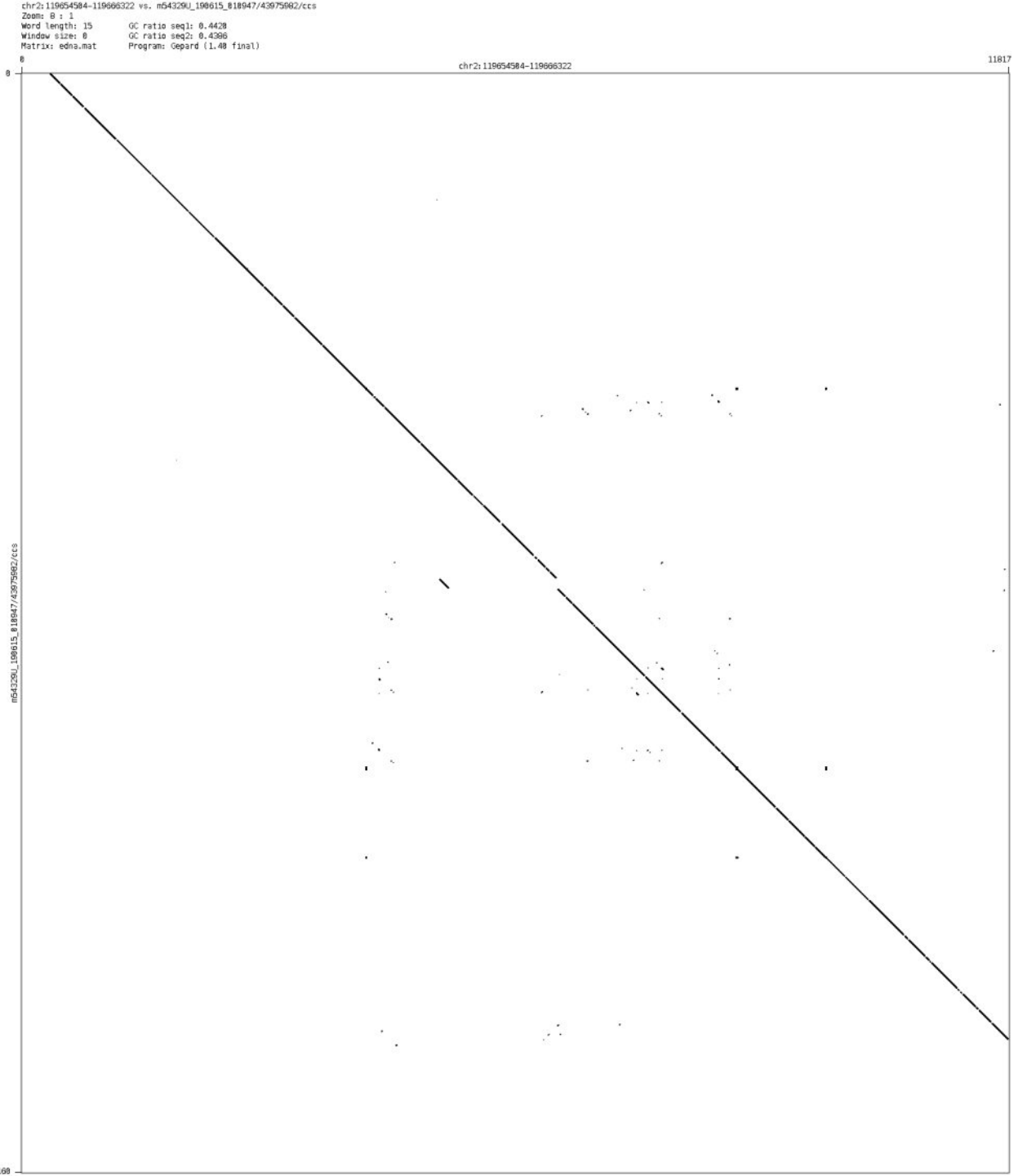
➤ chr2\_116216764\_116224735



➤ chr2\_119444283\_119445298

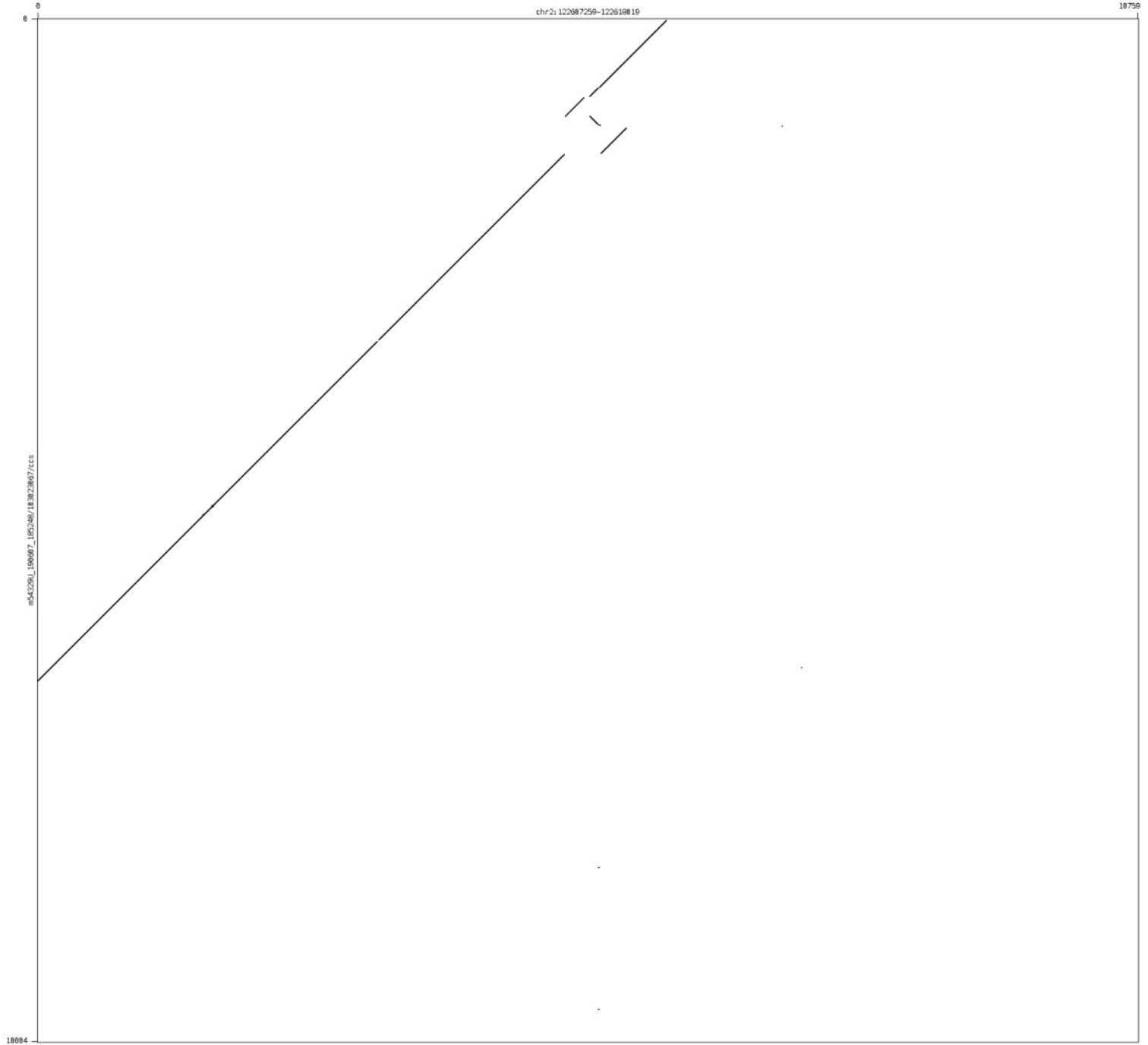


➤ chr2\_119659504\_119661322

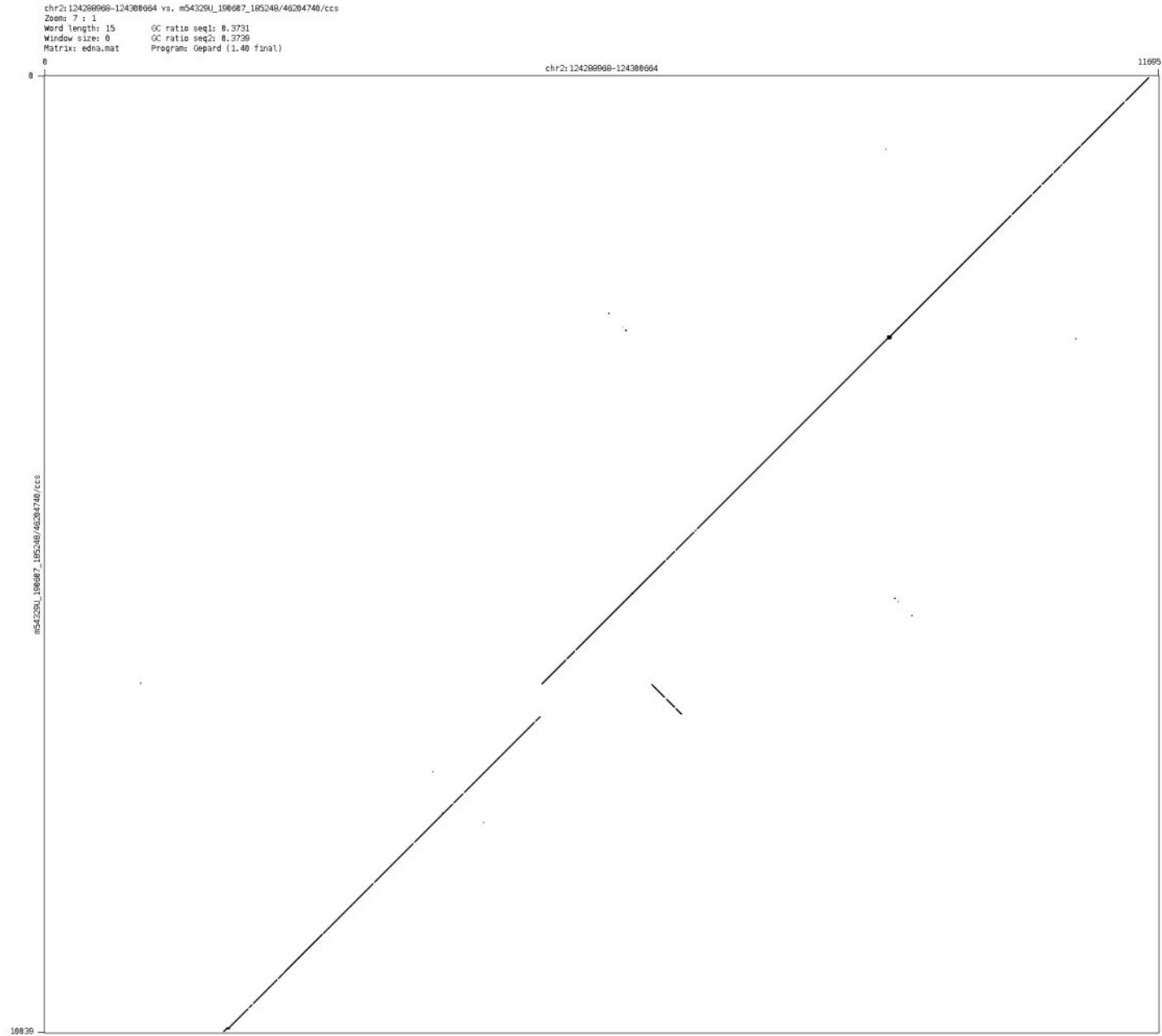


➤ chr2\_122612259\_122613019

chr2:122607259-122616819 vs. m54325U\_196987\_185248/183823867/ctc  
Zoom: 0 : 1  
Word length: 15 GC ratio seq1: 0.3577  
Window size: 8 GC ratio seq2: 0.3959  
Matrix: edna.mat Program: Oepard (1.48 final)

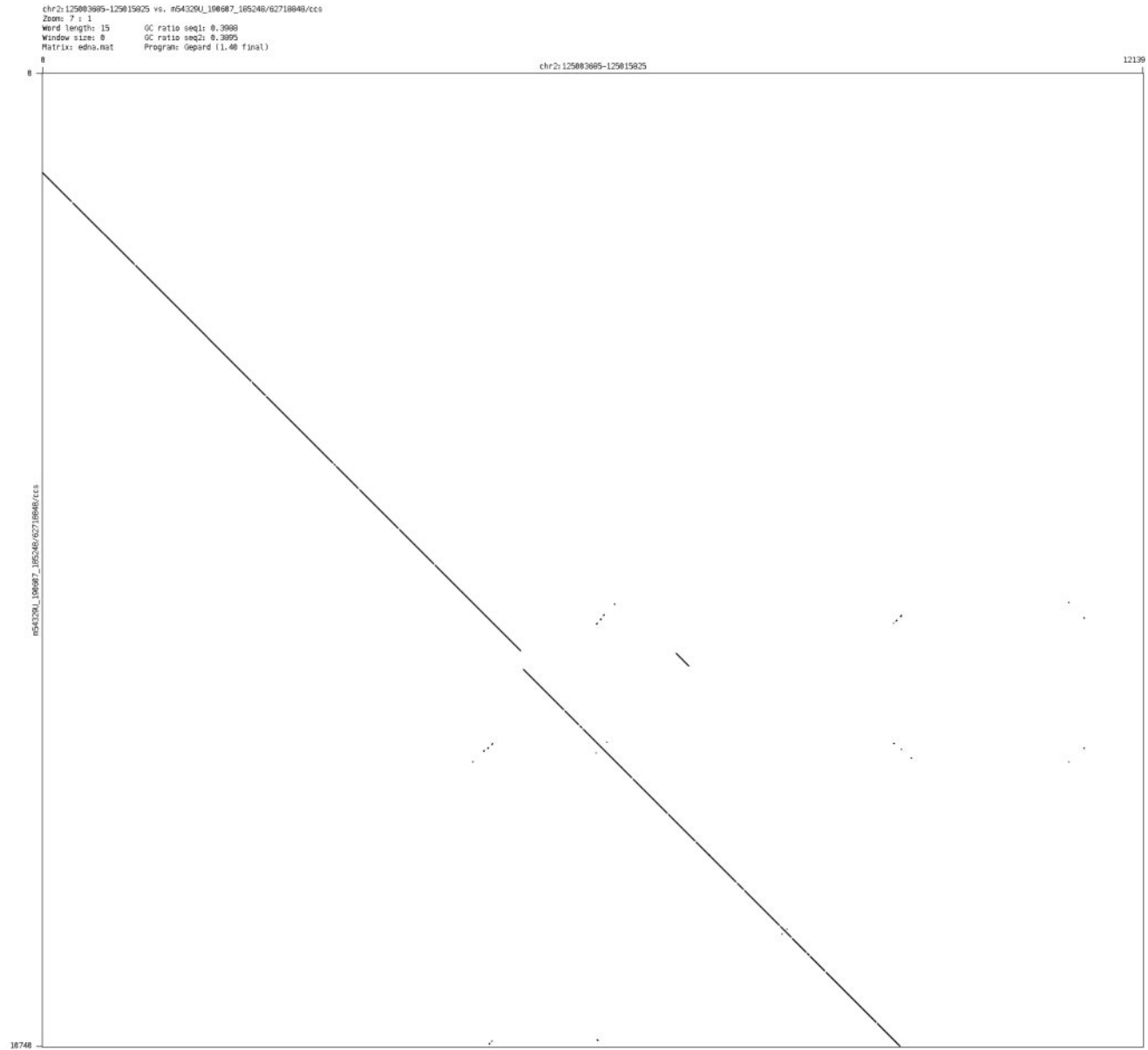


➤ chr2\_124293968\_124295664

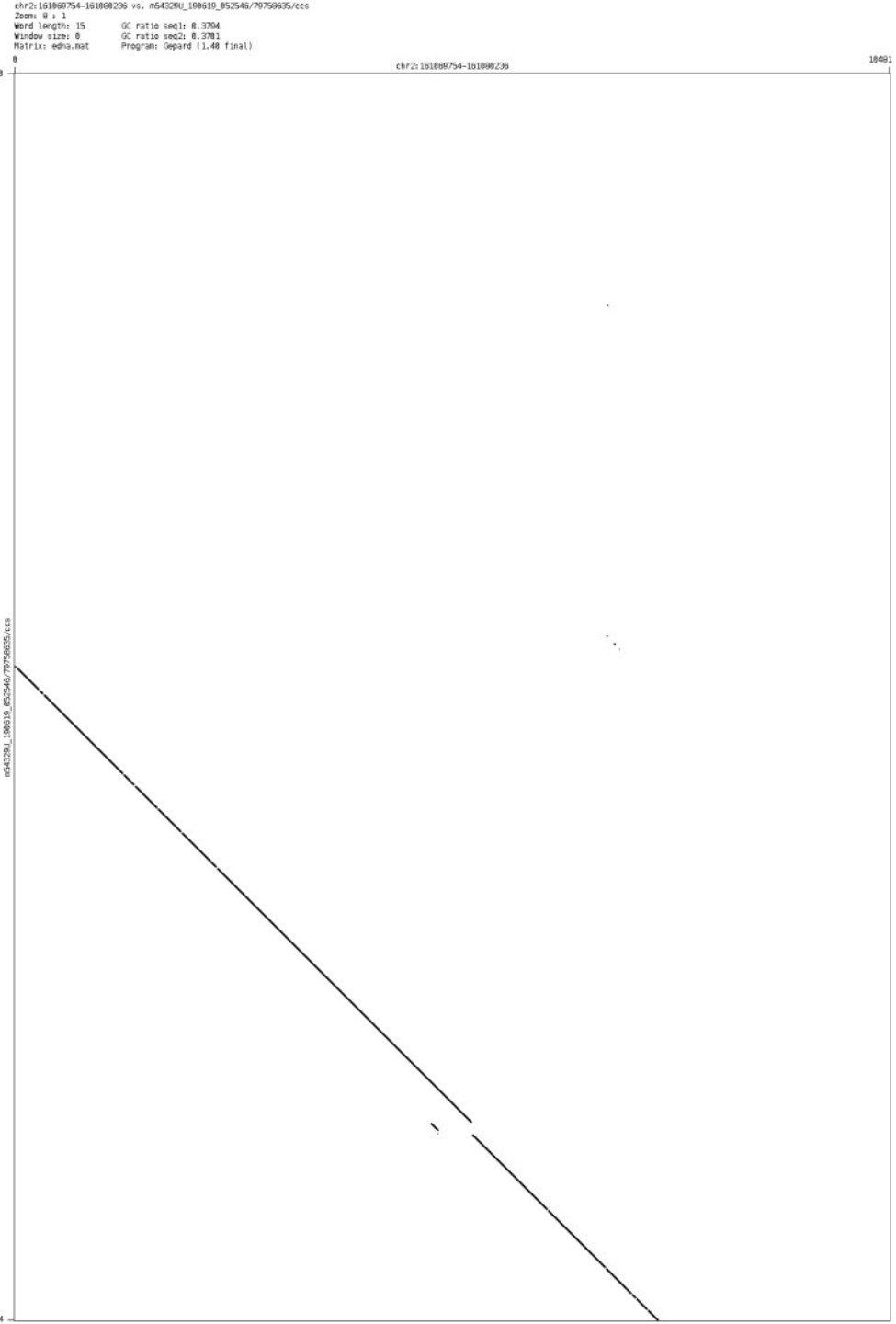




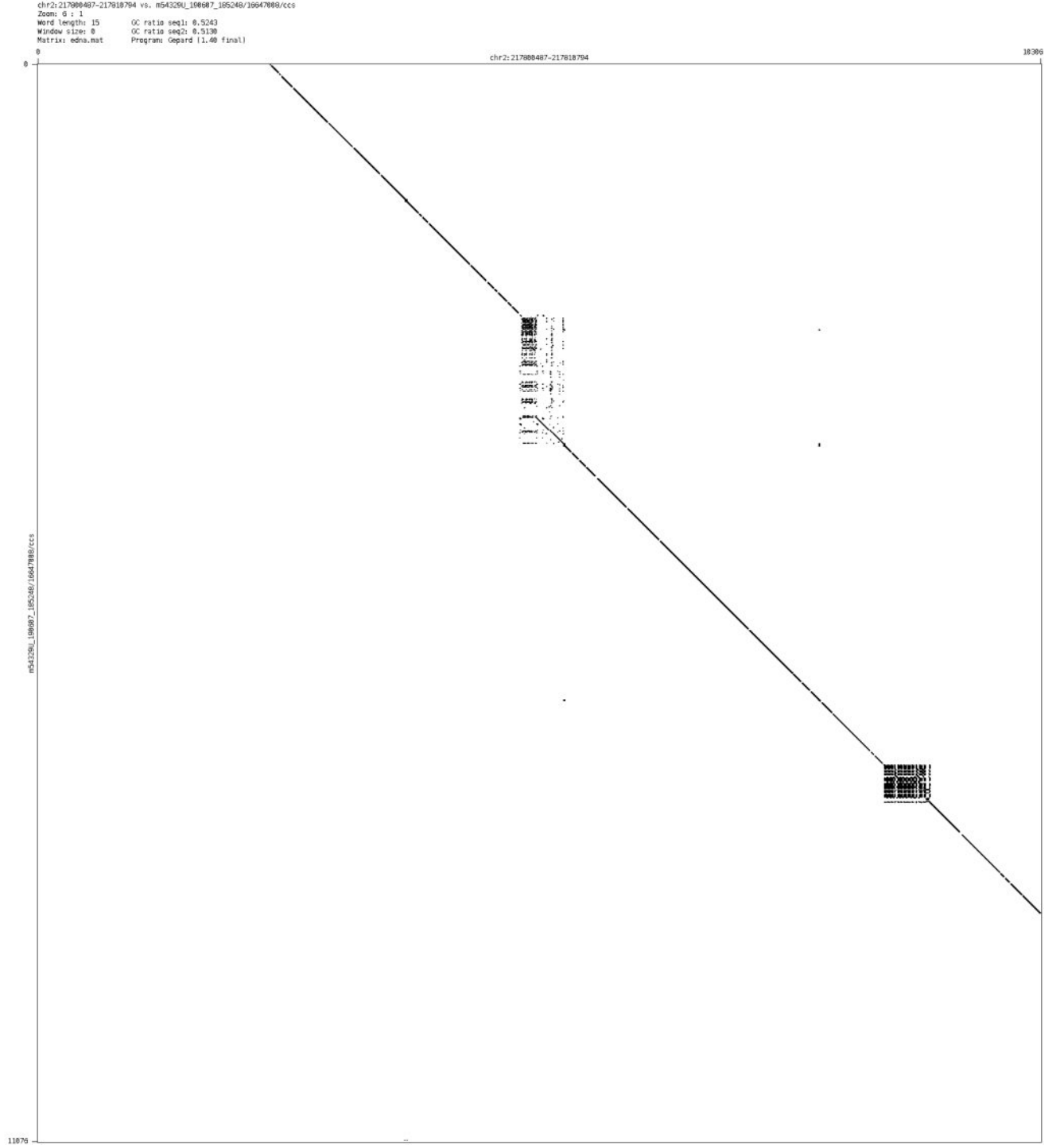
➤ chr2\_125008685\_125010825



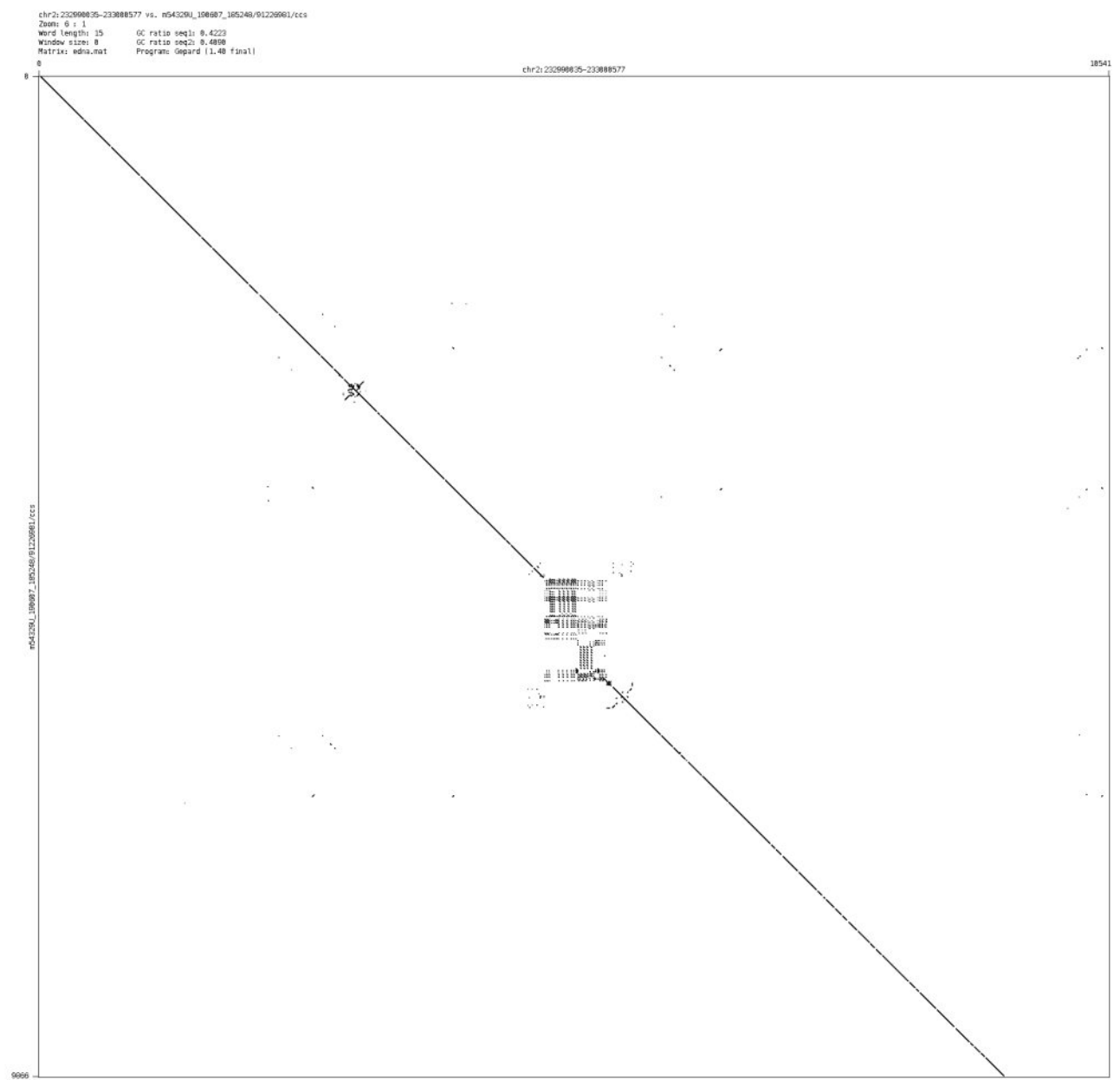
➤ chr2\_161074754\_161075236



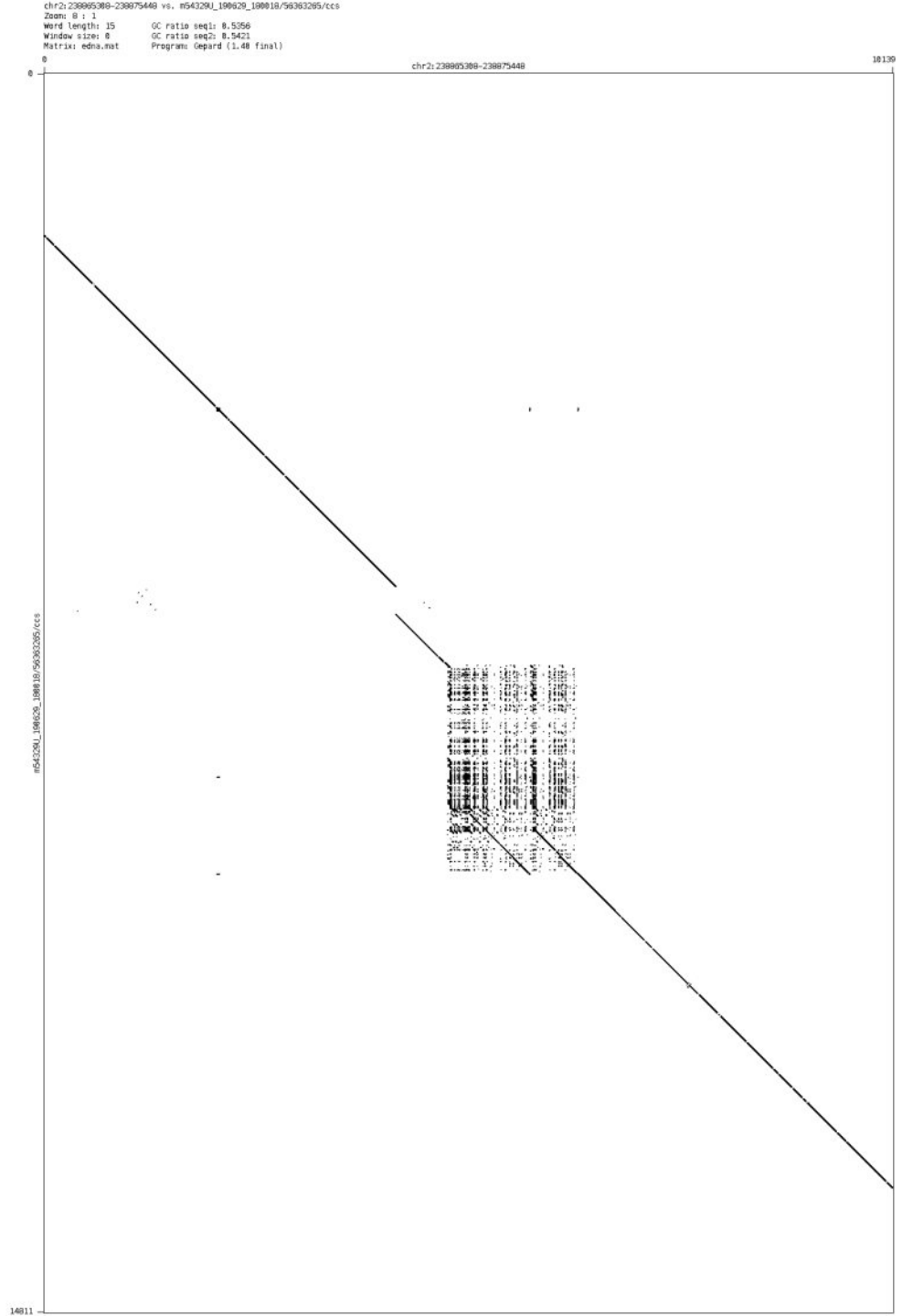
➤ chr2\_217805487\_217805794



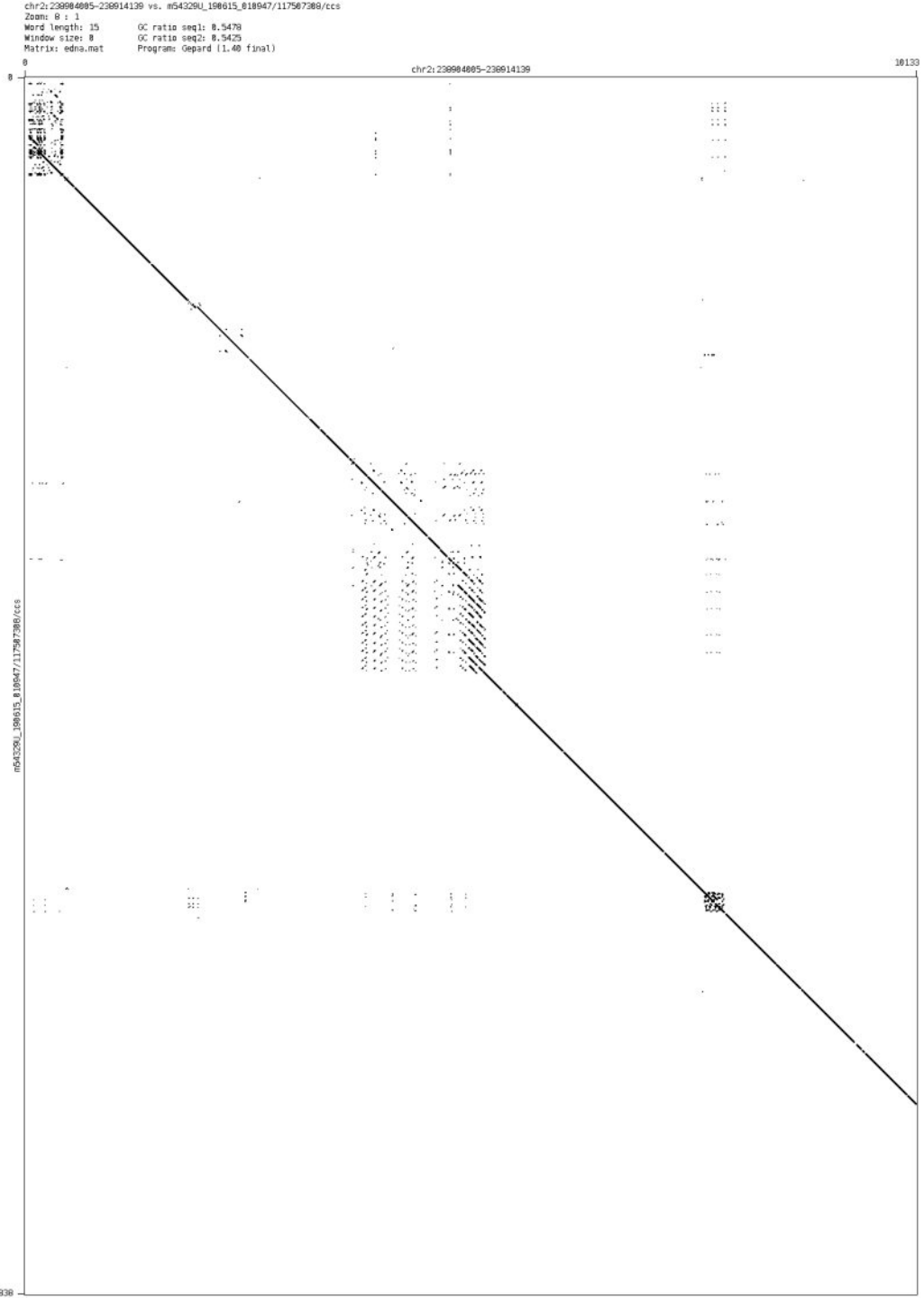
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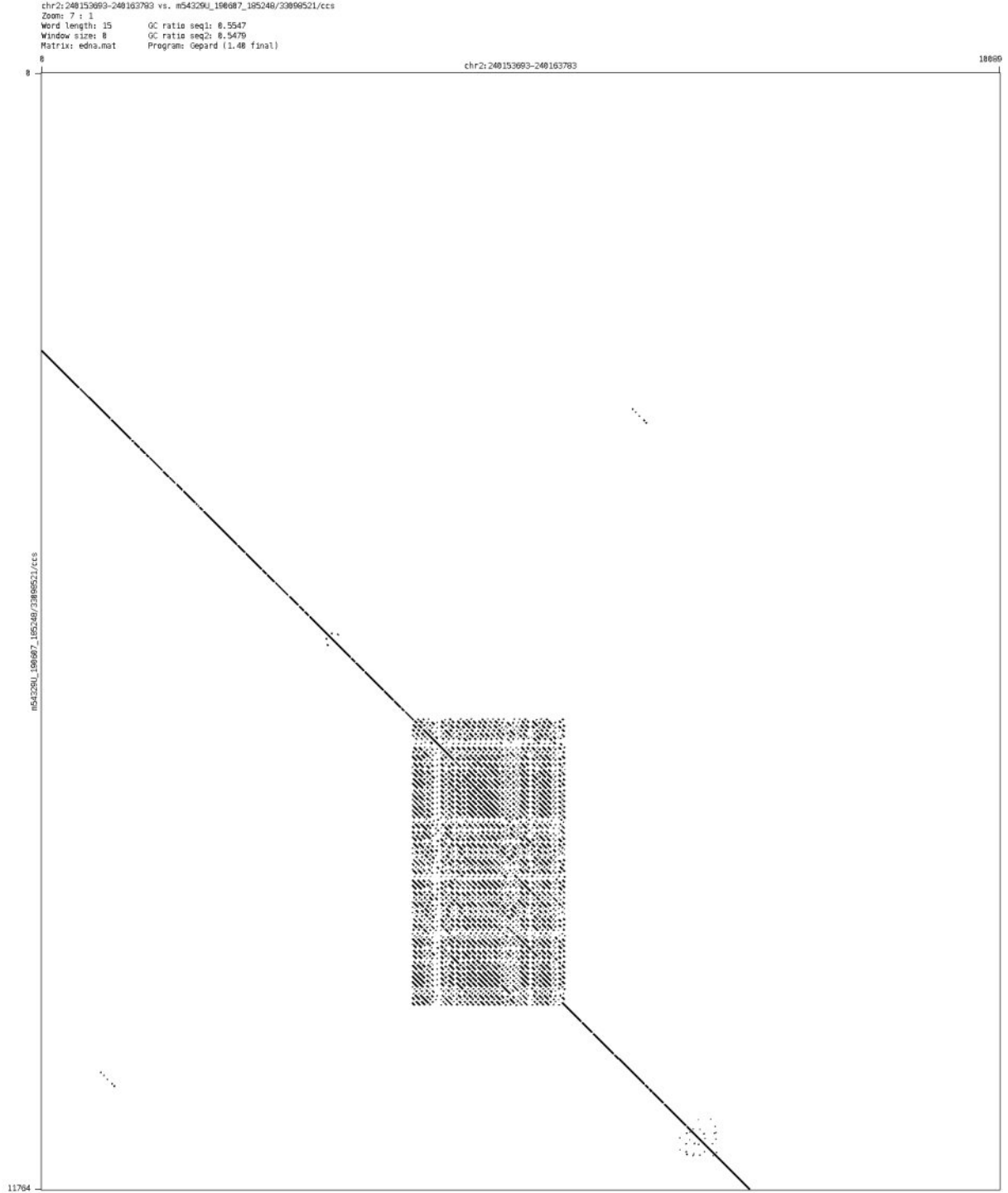
➤ chr2\_238870308\_238870448



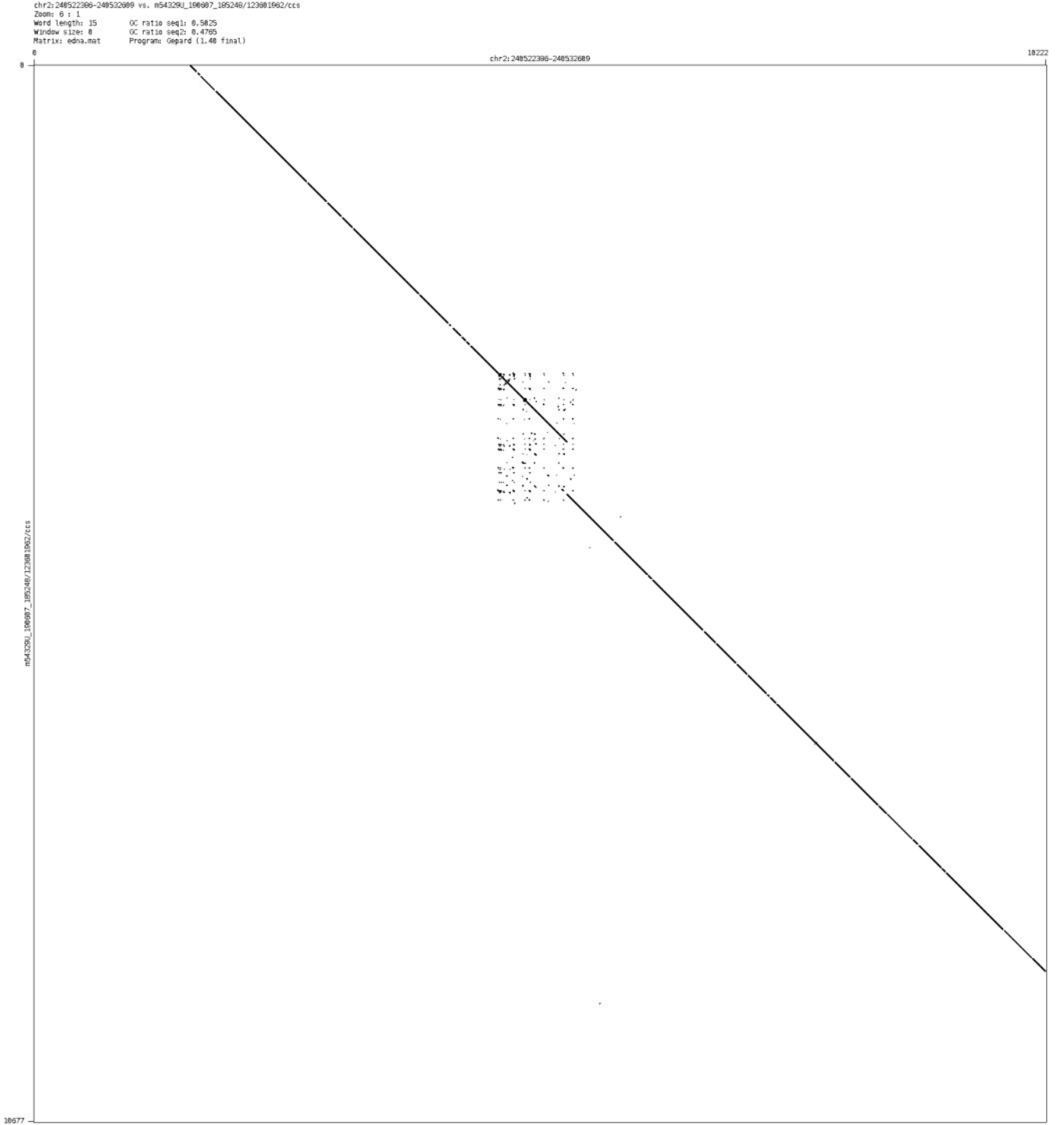
➤ chr2\_238909005\_238909139



➤ chr2\_240158693\_240158783

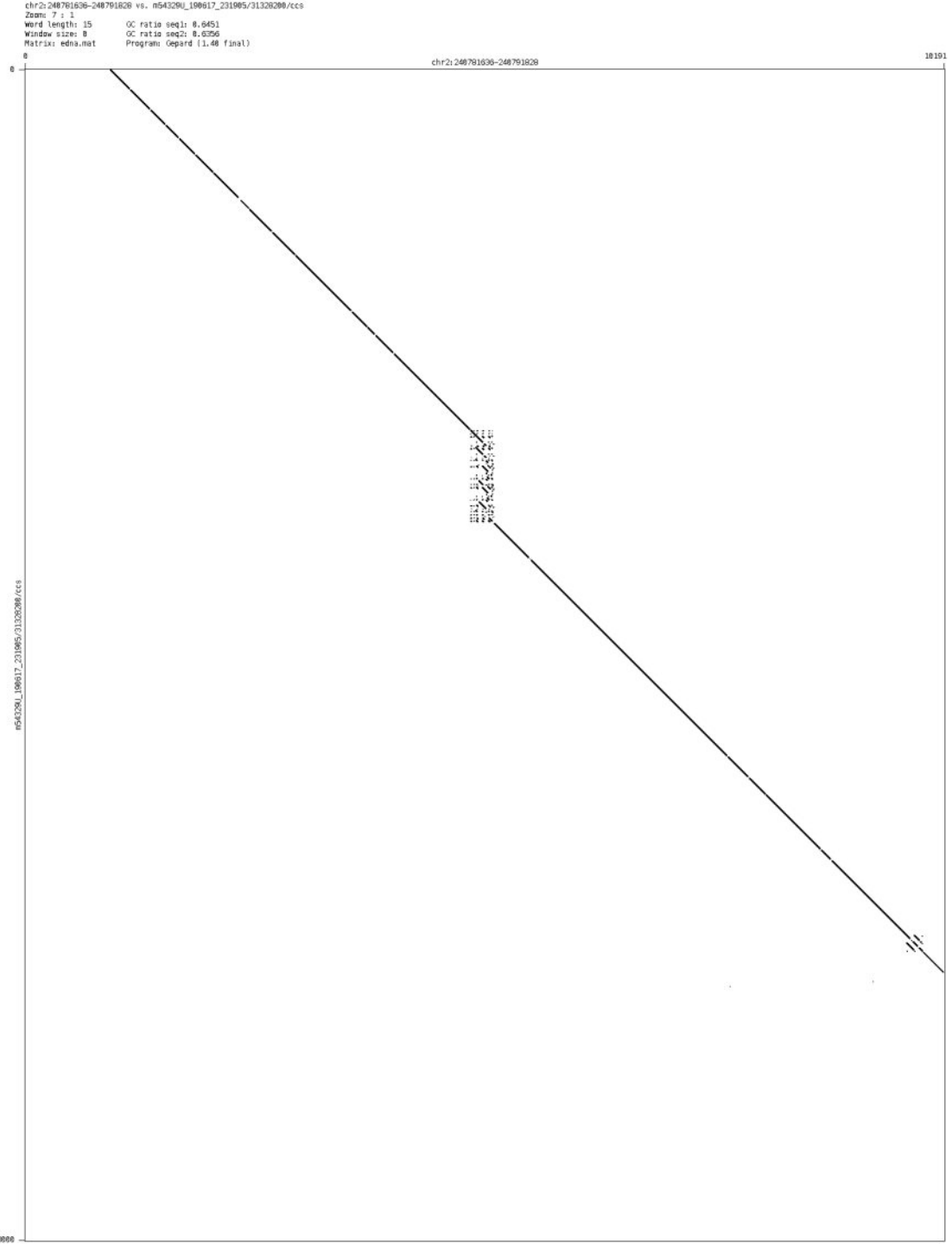


➤ chr2\_240527386\_240527609

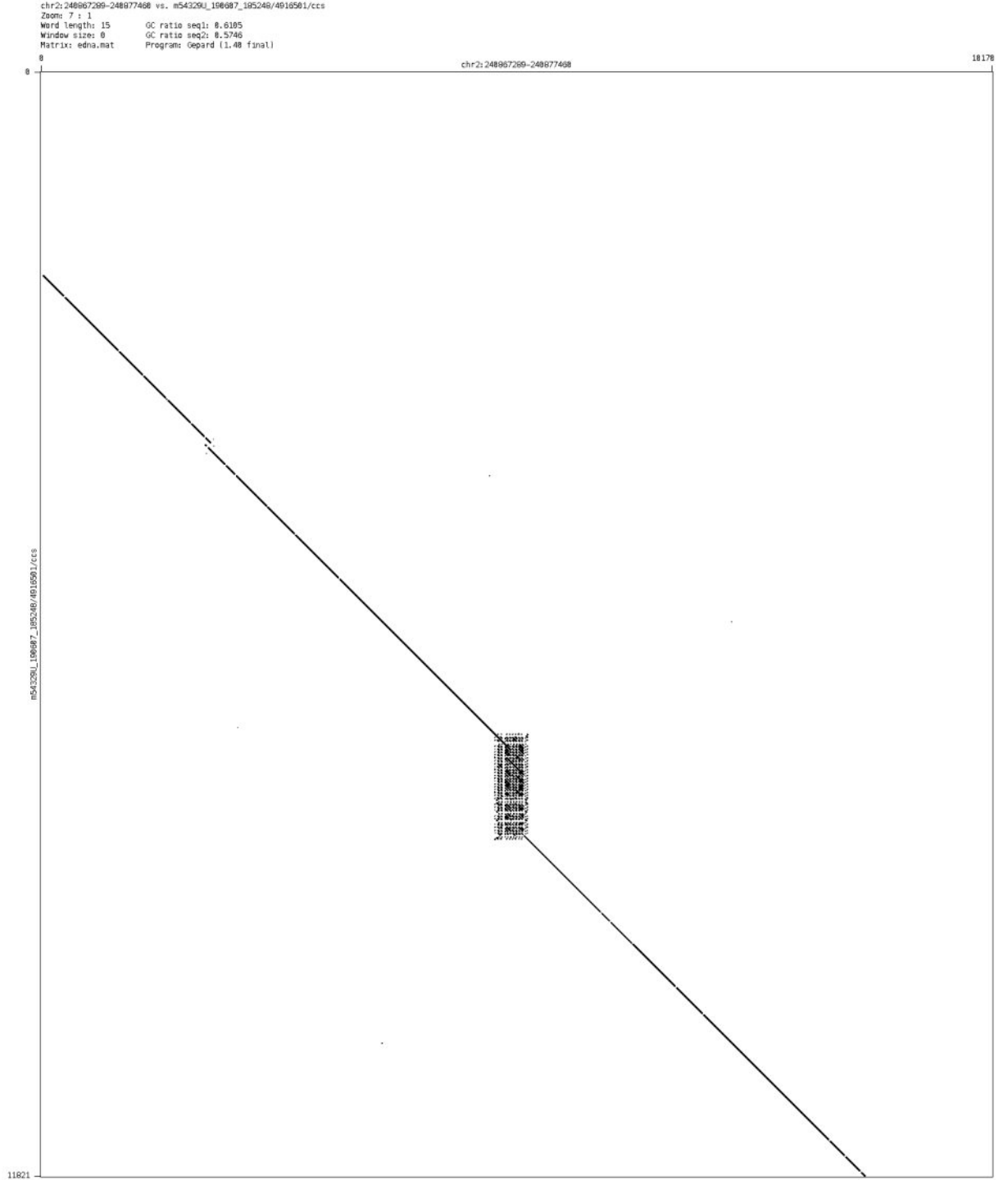




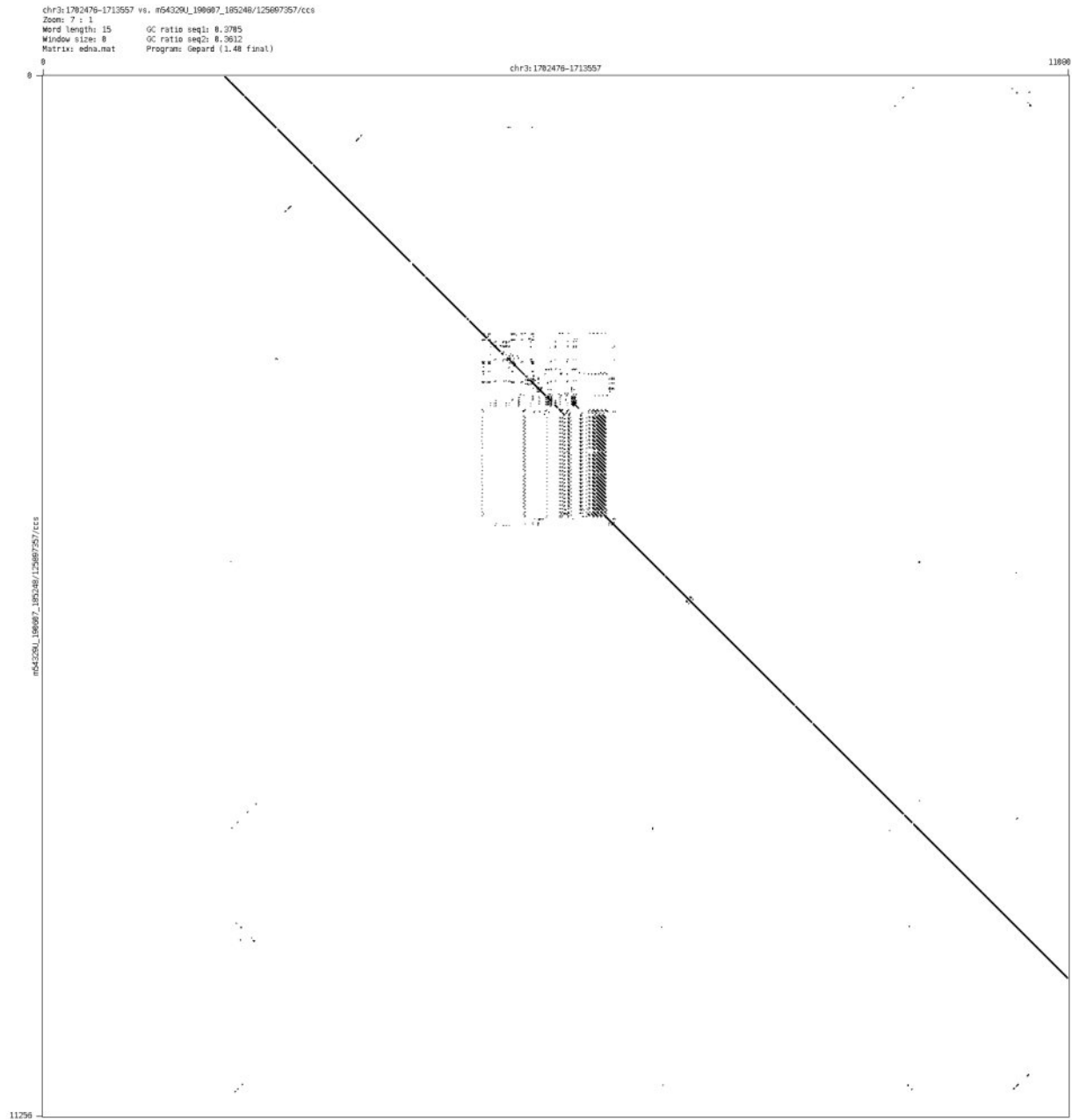
➤ chr2\_240786636\_240786828



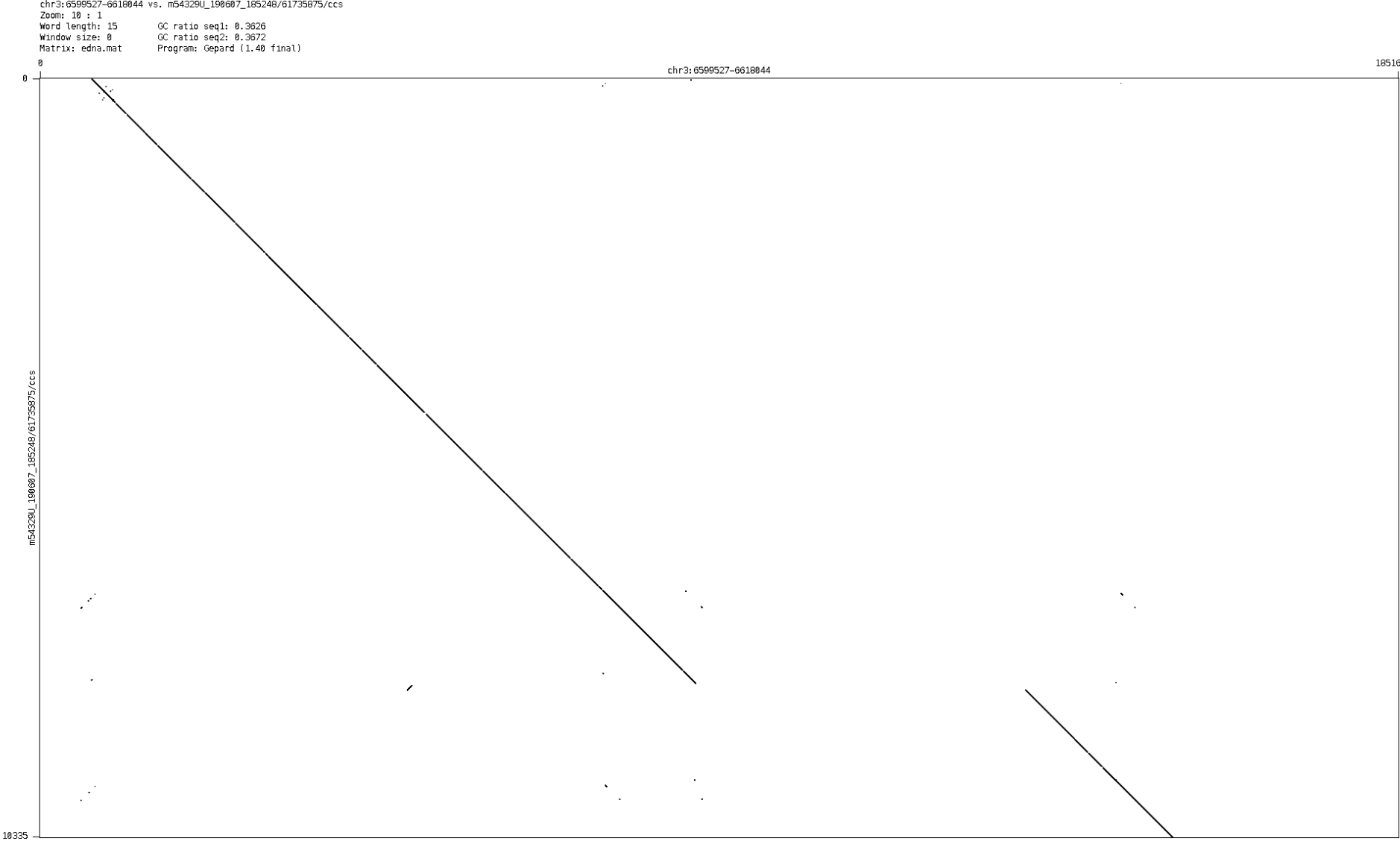
➤ chr2\_240872289\_240872460



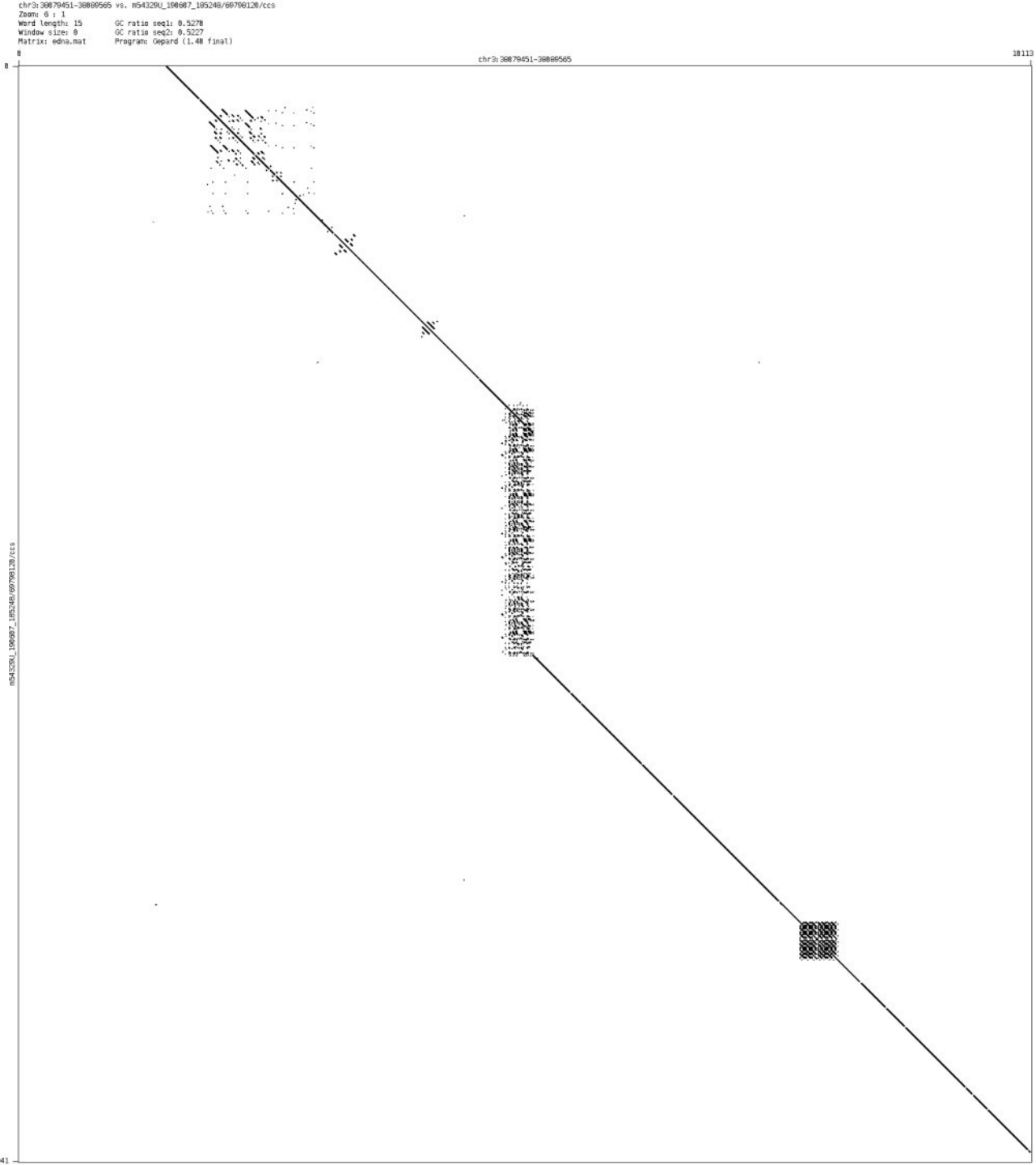
➤ chr3\_1707476\_1708557



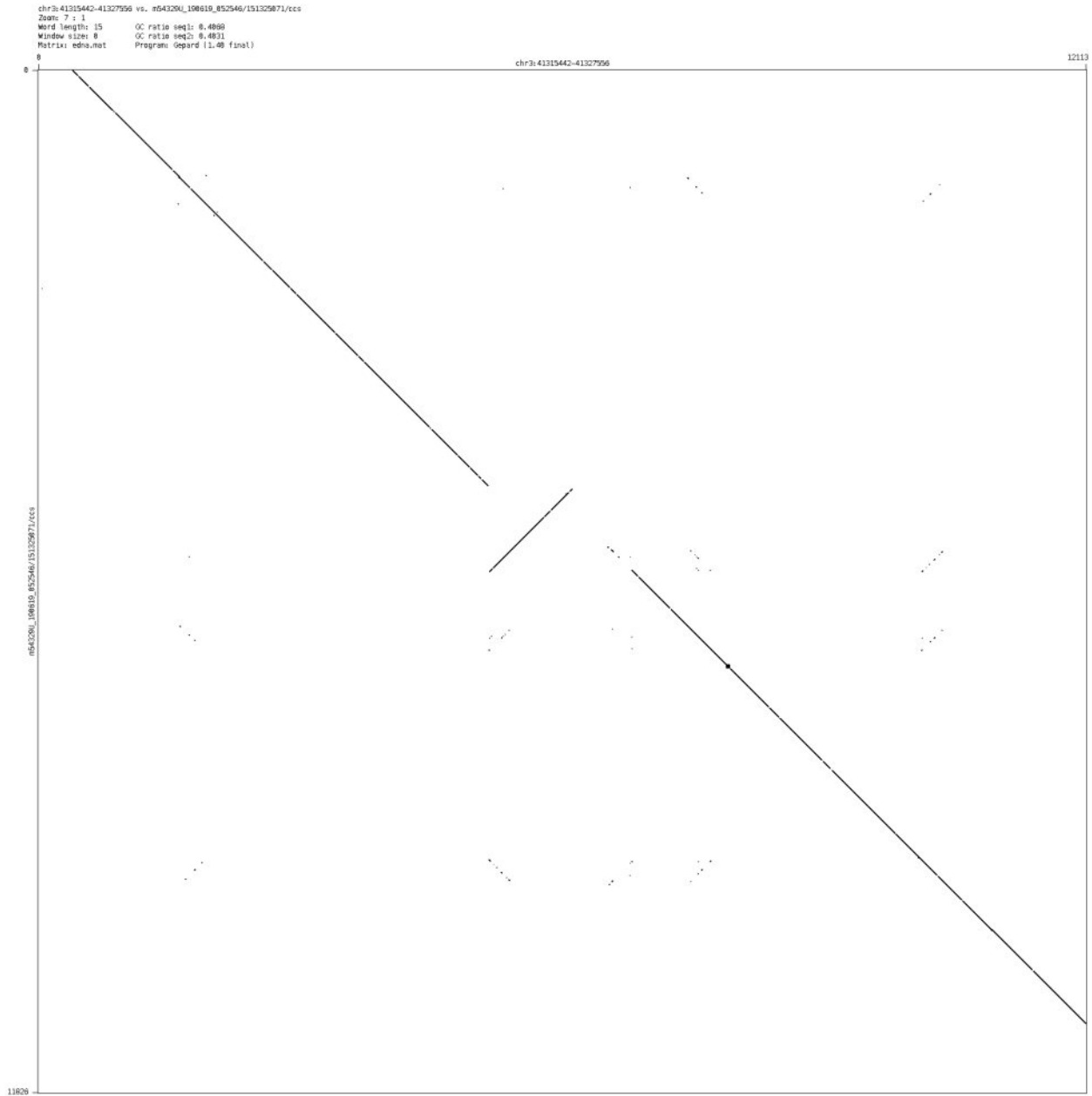
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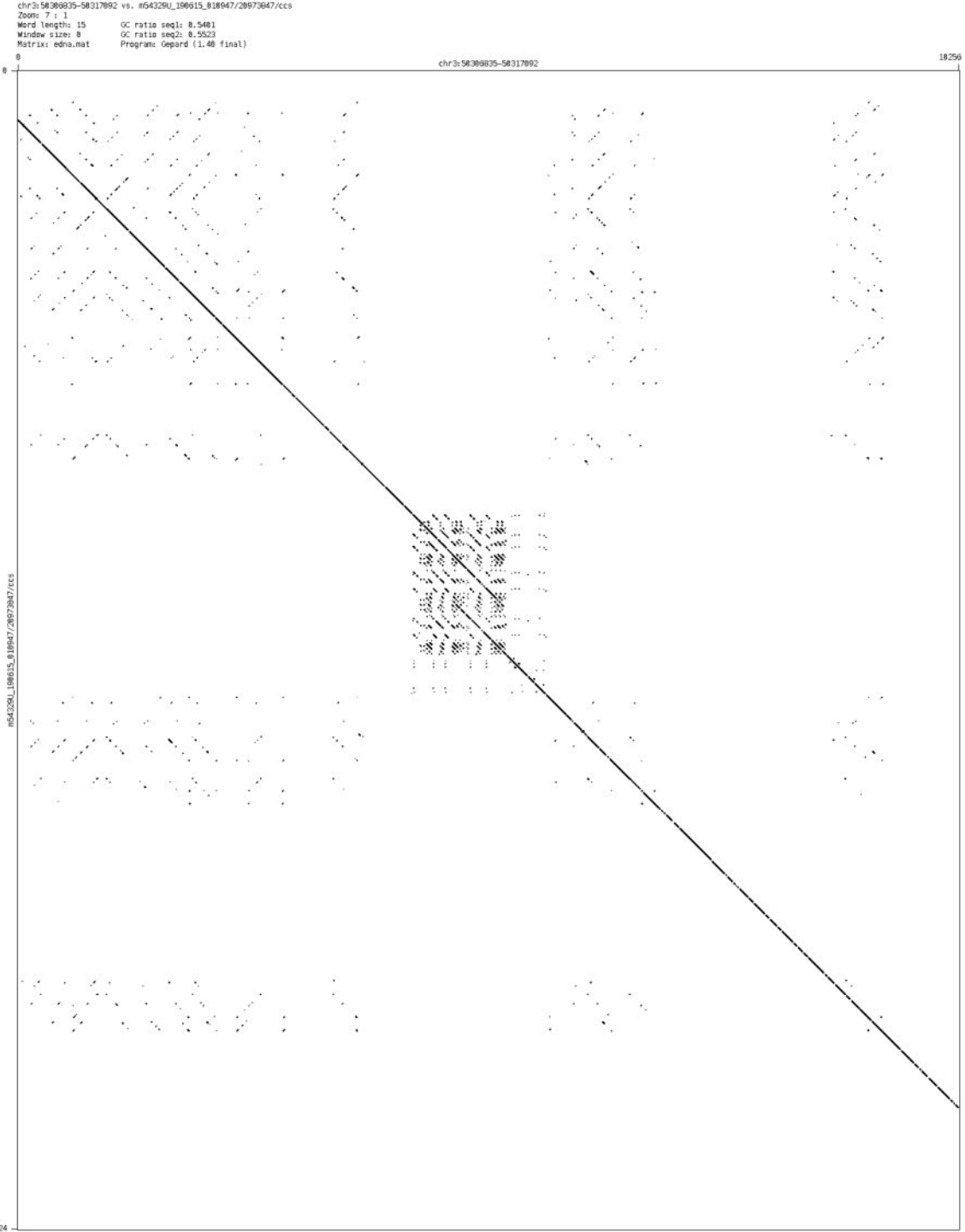
➤ chr3\_38084451\_38084565



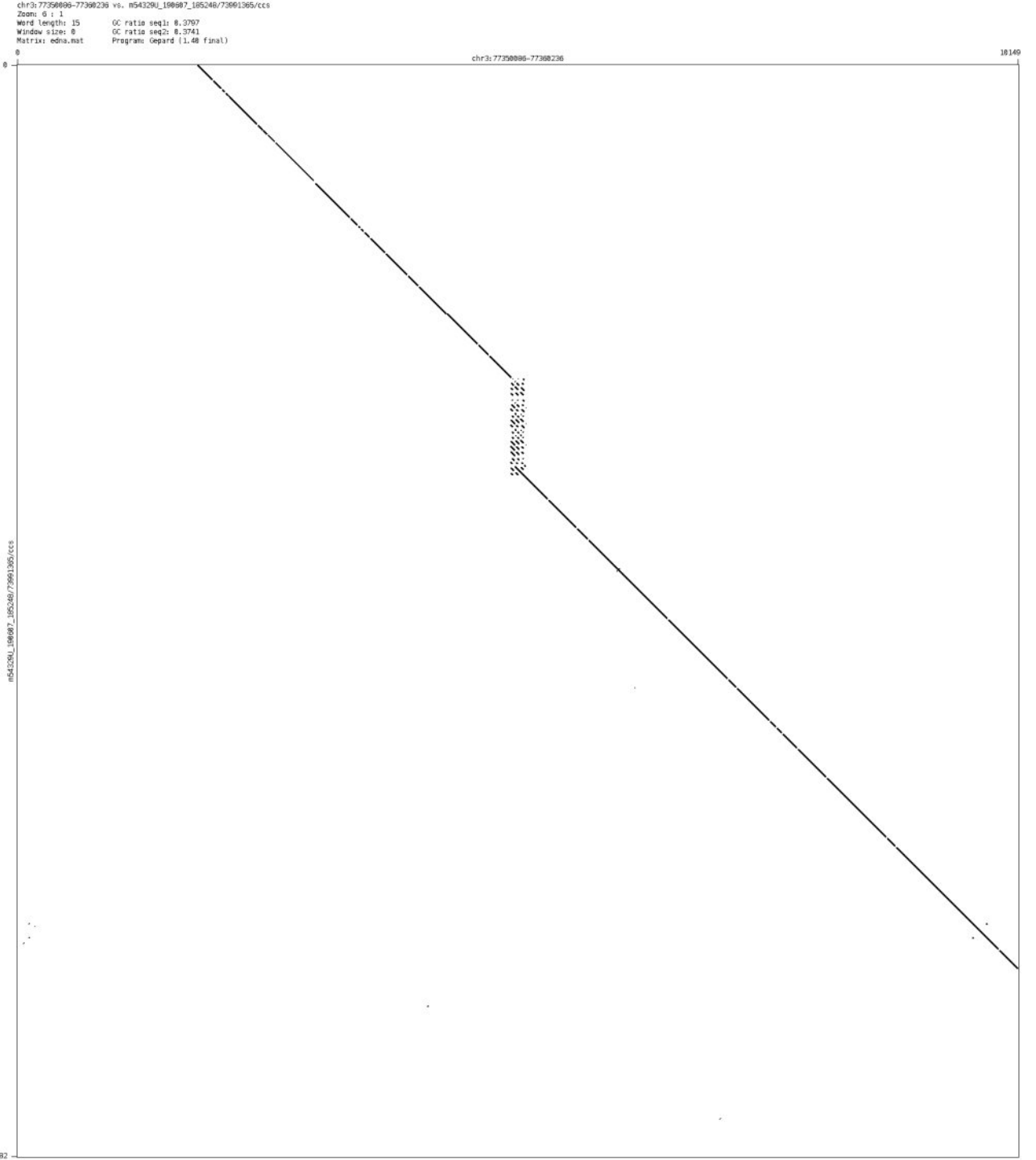
➤ chr3\_41320442\_41322556



➤ chr3\_50311835\_50312092

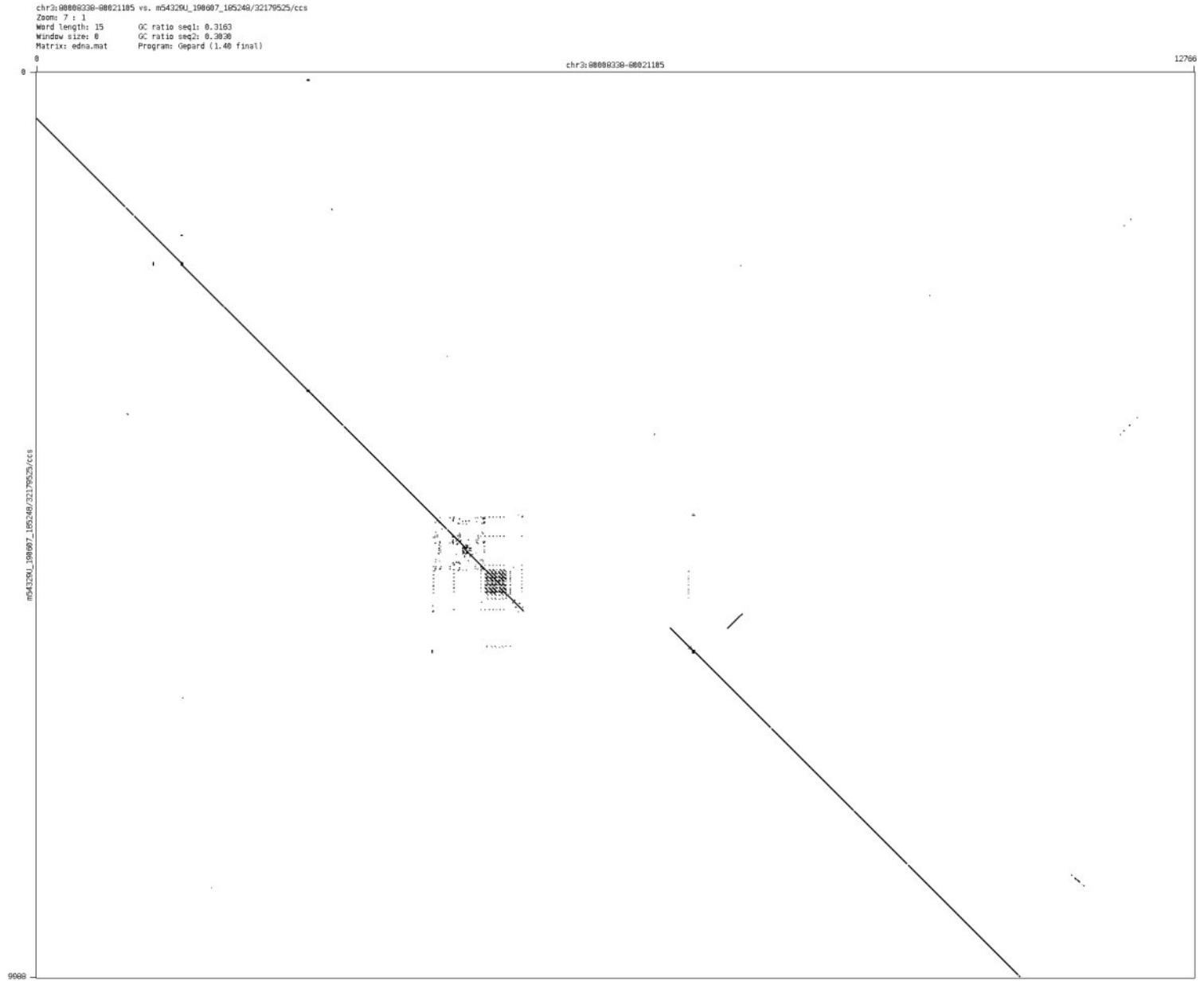


➤ chr3\_77355086\_77355236

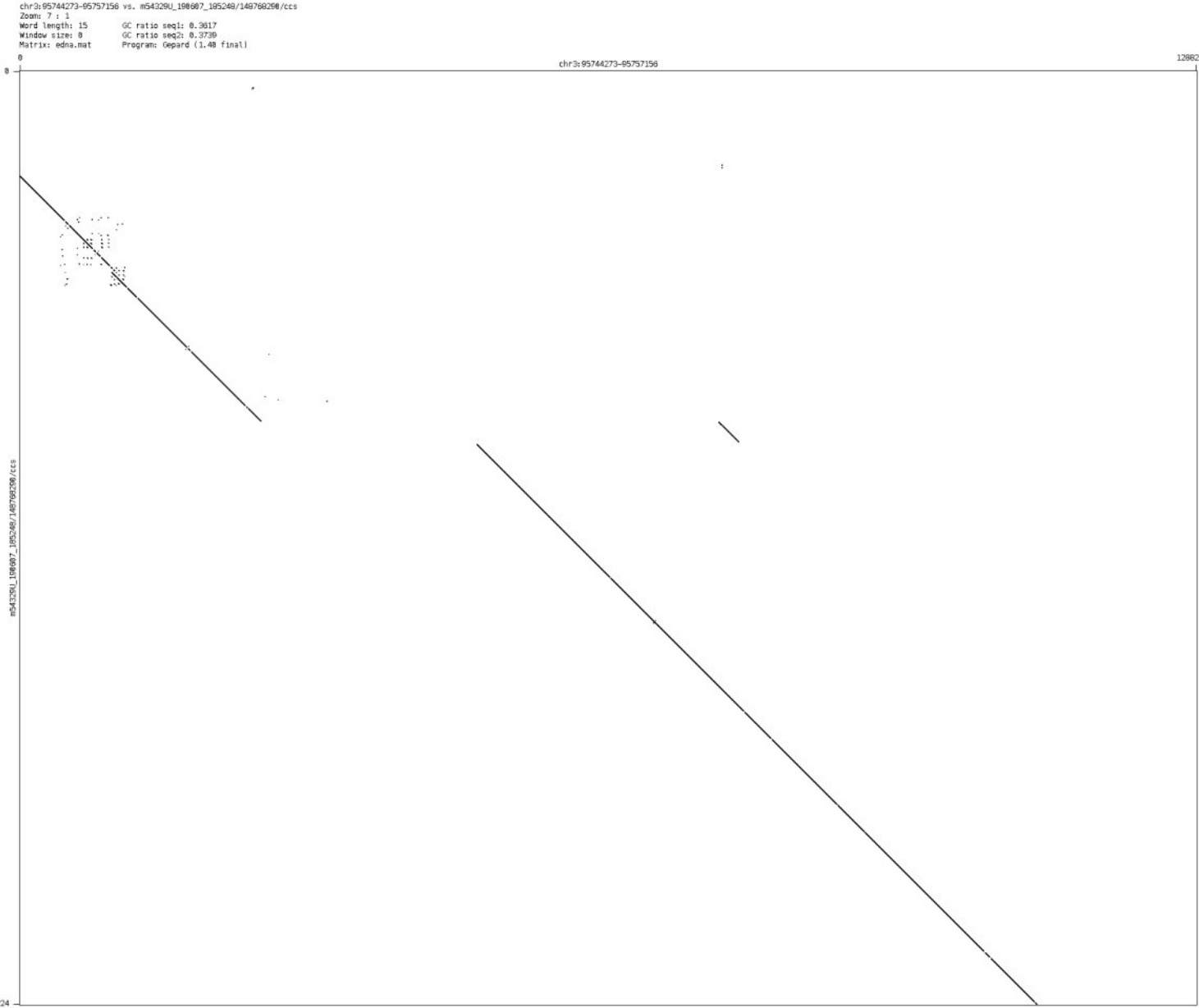




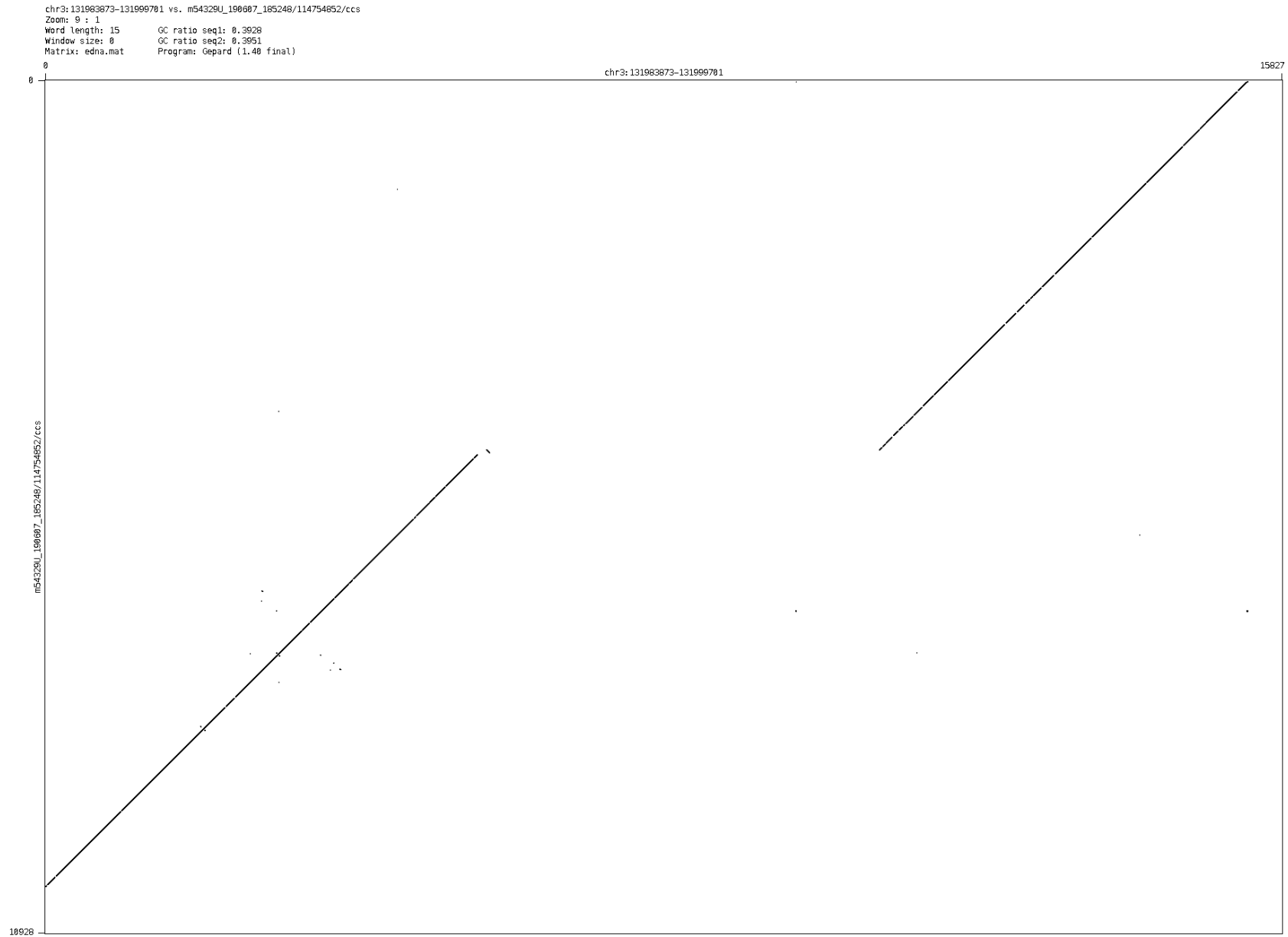
➤ chr3\_80013338\_80016105



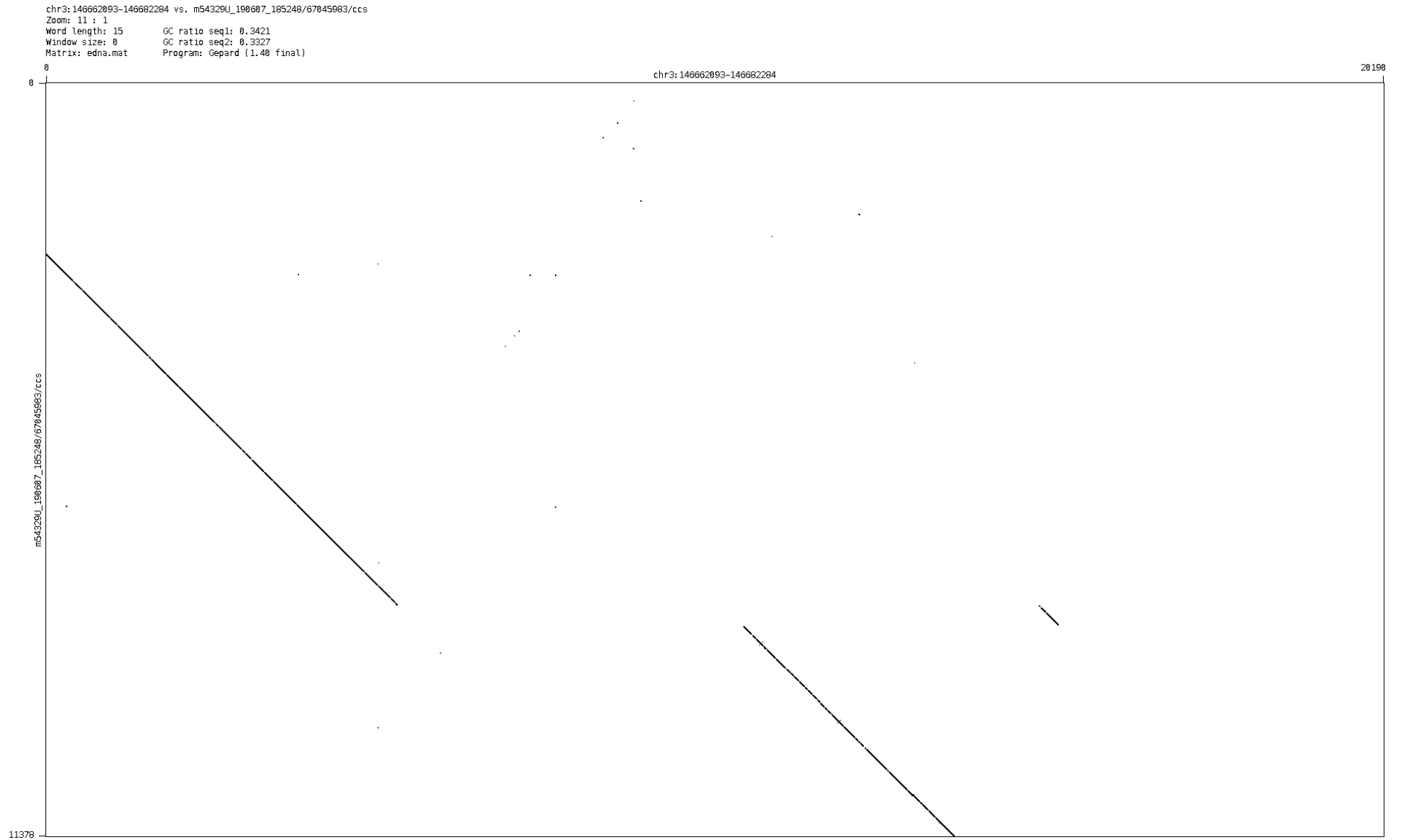
➤ chr3\_95749273\_95752156



➤ chr3\_131988873\_131994701



➤ chr3\_146667093\_146677284



➤ chr3\_162807802\_162830163

chr3:162802802-162835163 vs. m54329U\_190615\_010947/135397459/ccs

Zoom: 18 : 1

Word length: 15

GC ratio seq1: 0.3564

Window size: 0

GC ratio seq2: 0.3664

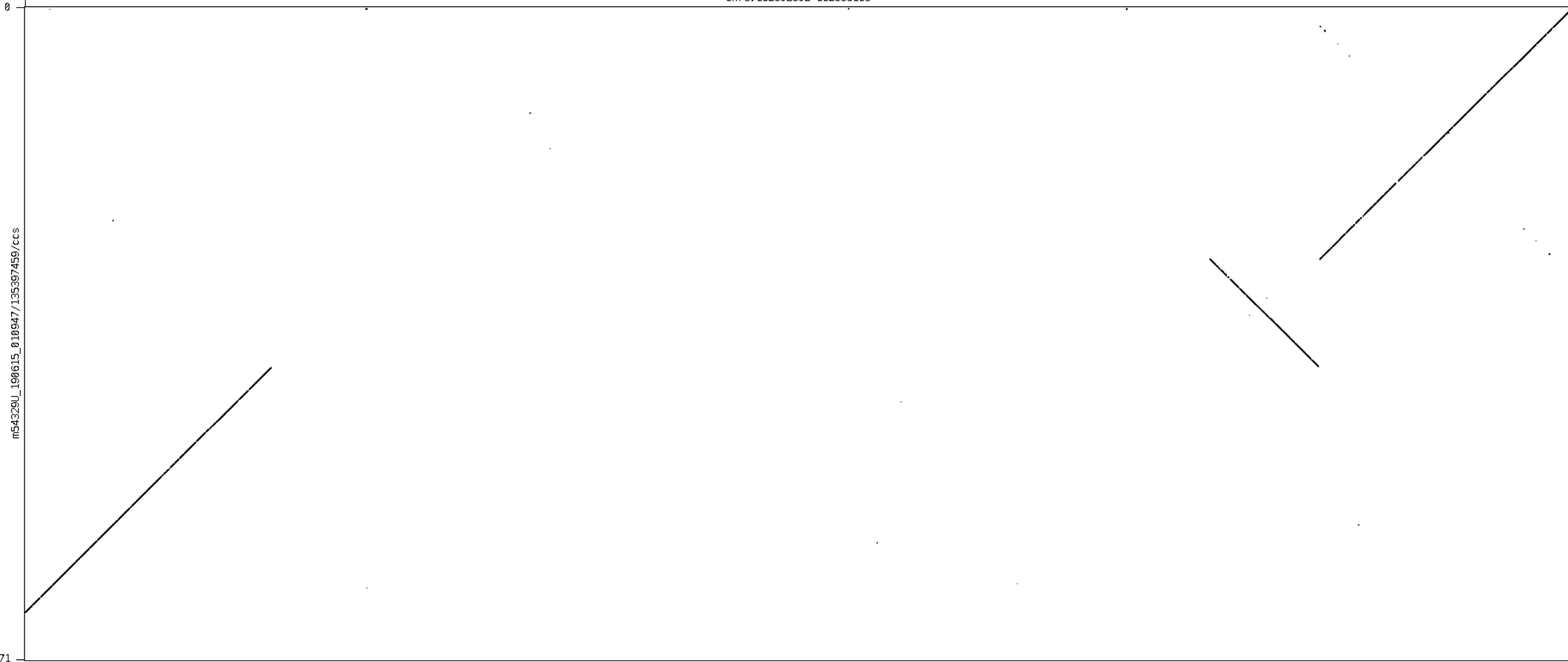
Matrix: edna.mat

Program: Gepard (1.40 final)

0

chr3:162802802-162835163

32360

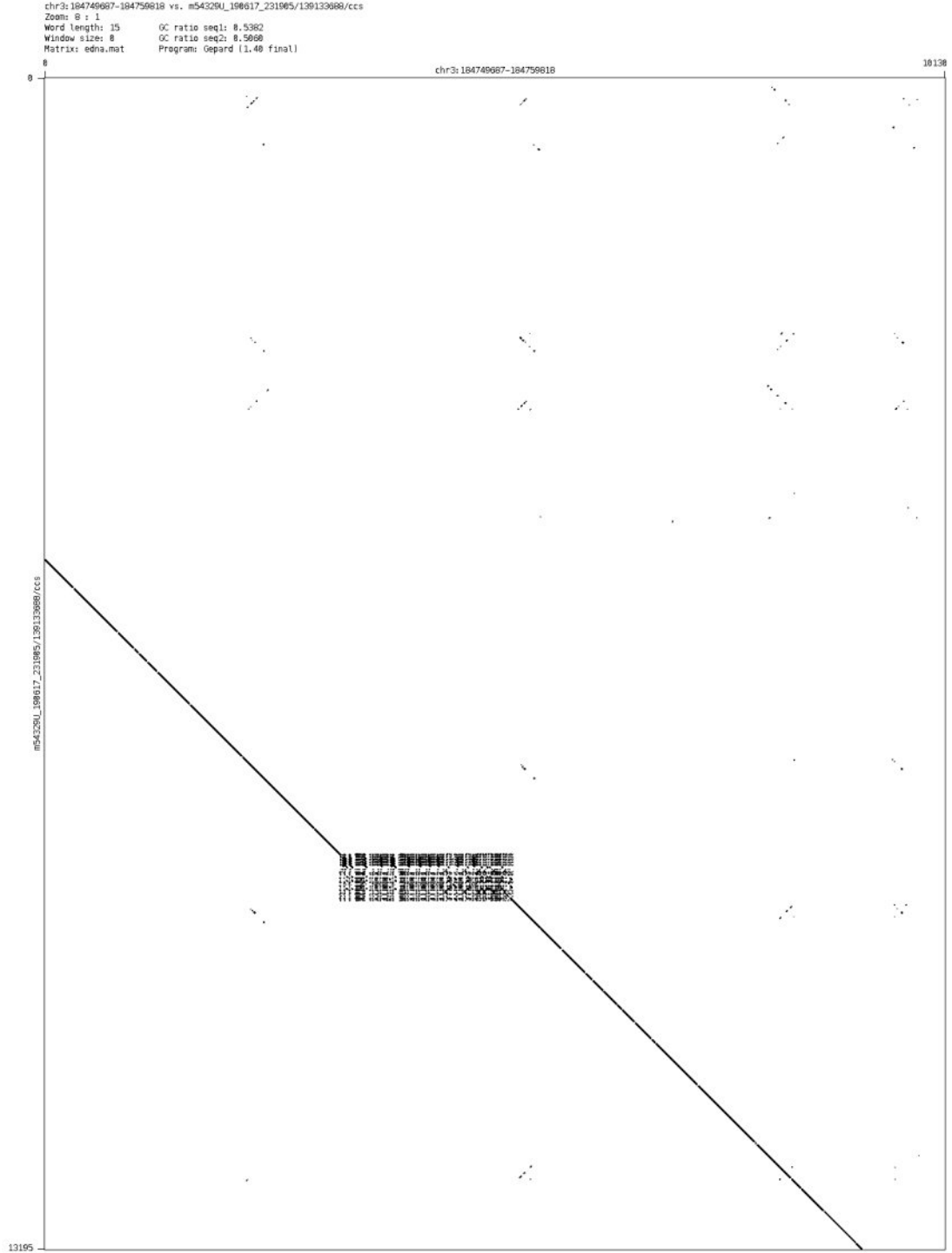


13671

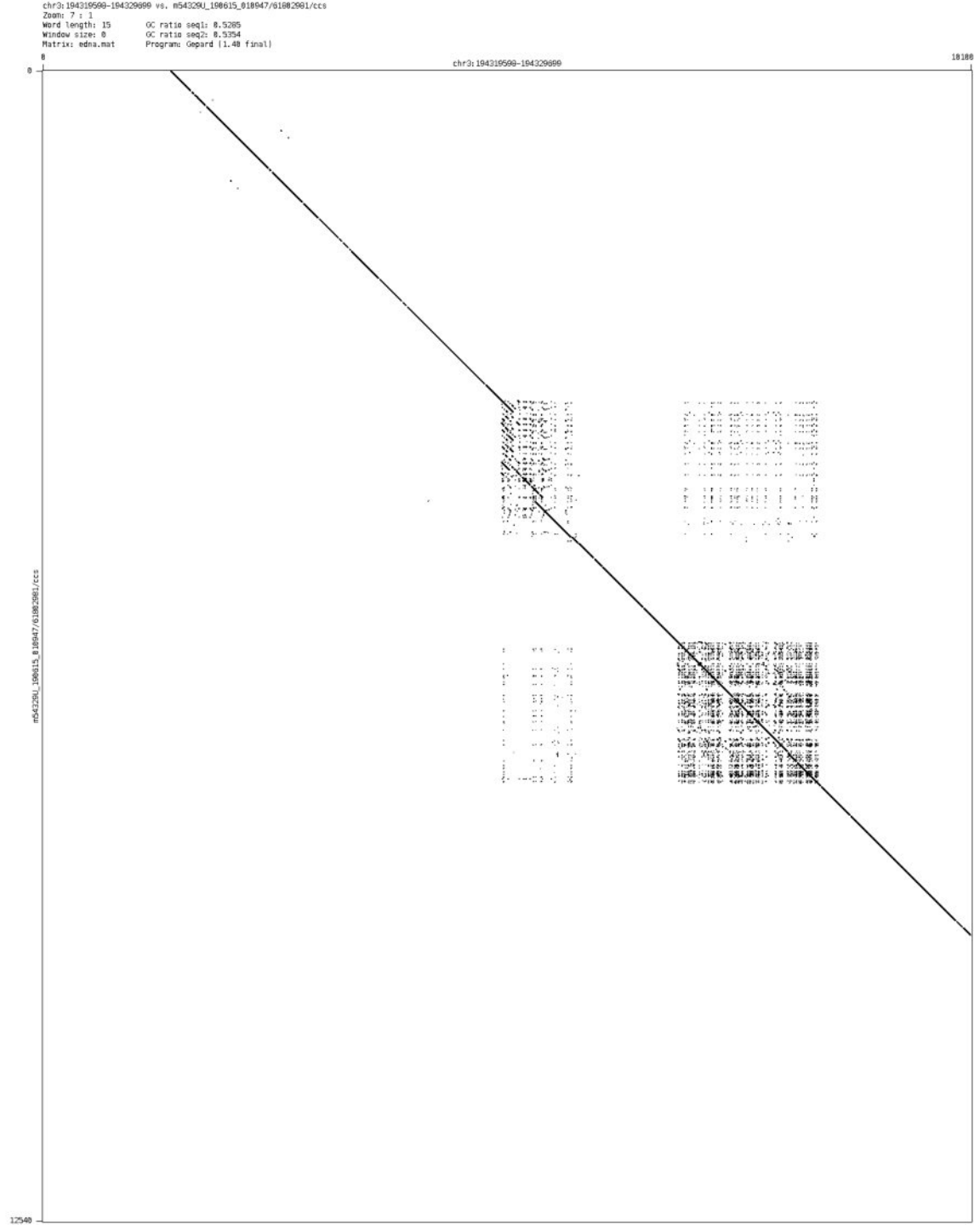
➤ chr3\_178757959\_178758511



➤ chr3\_184754687\_184754818

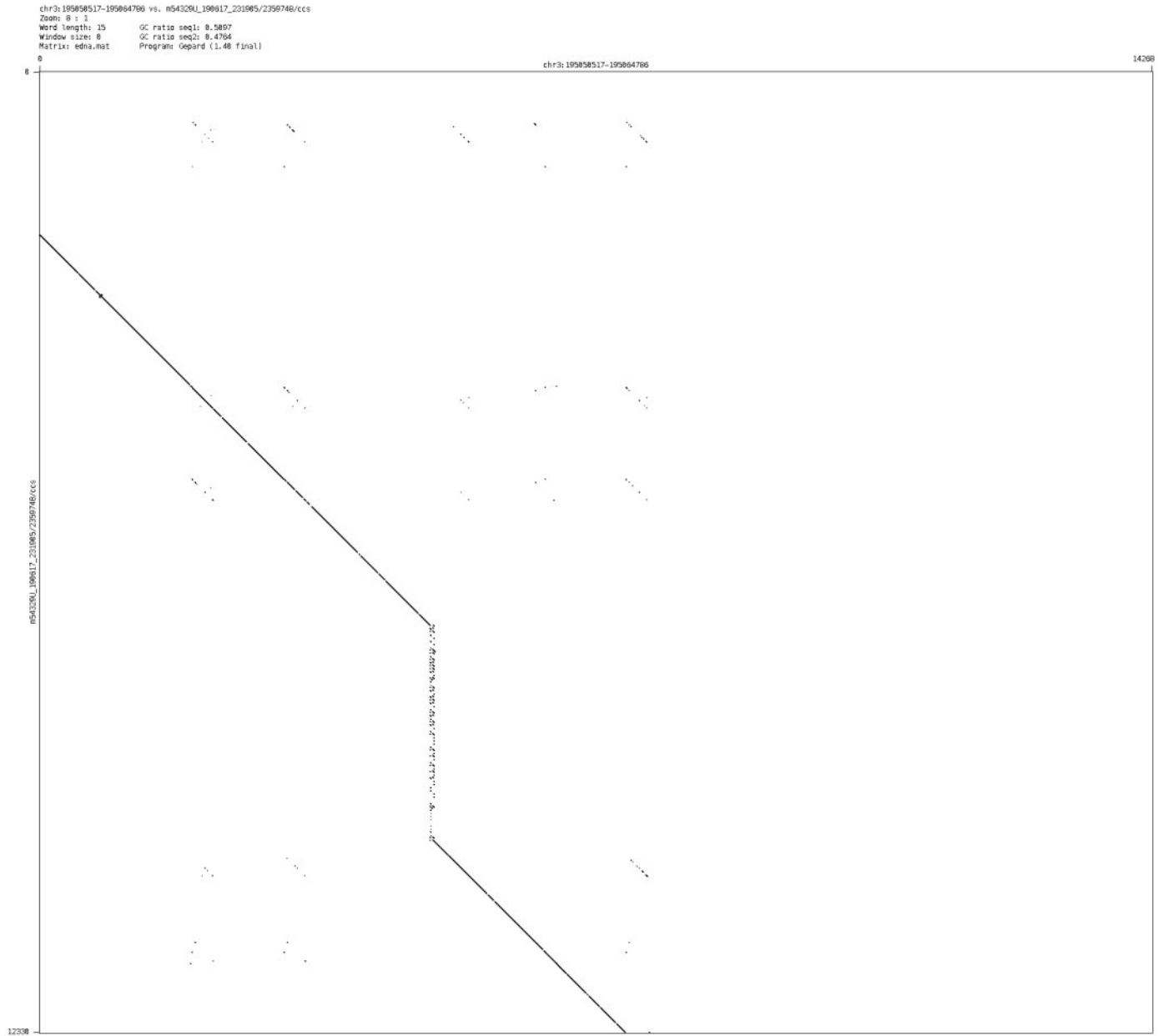


➤ chr3\_194324598\_194324699



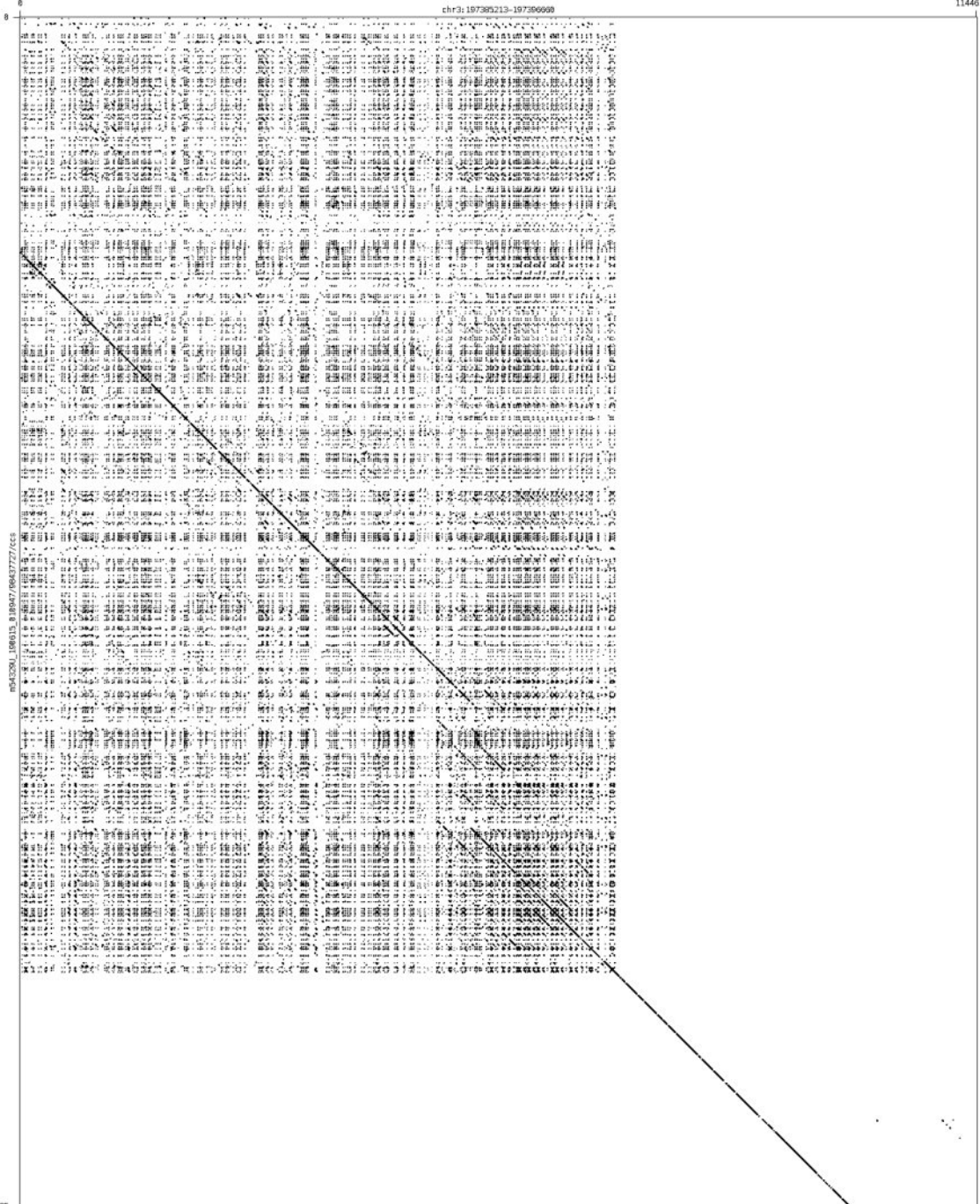


➤ chr3\_195055517\_195059786



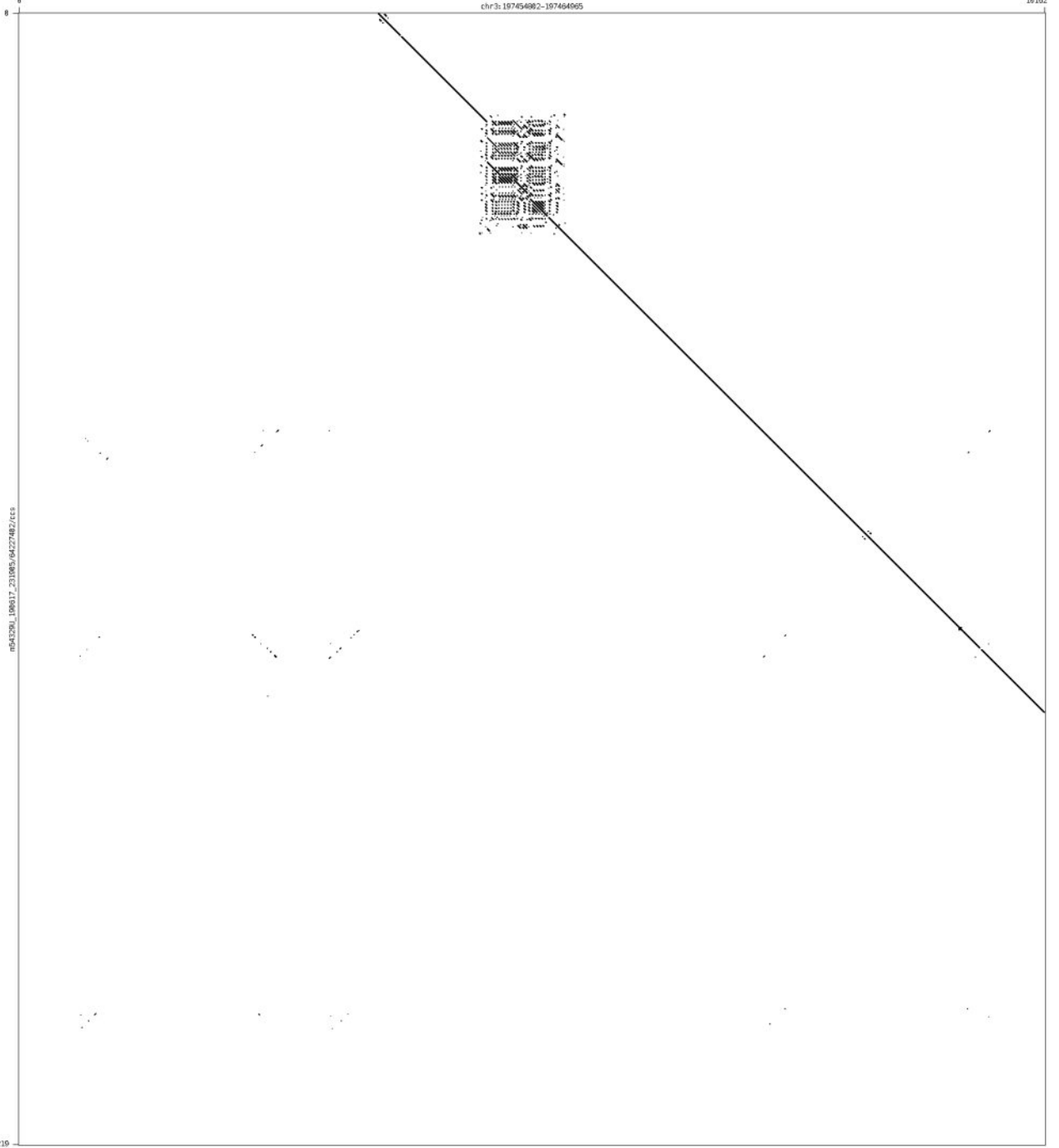
➤ chr3\_197390213\_197391660

chr3:197395213-197396989 vs. n543291.199615\_818947/9843727/ccc  
Zoom: 0 : 1 GC ratio seq1: 0.4261  
word length: 15 GC ratio seq2: 0.4682  
Window size: 8  
Matrix: edna.mat Program: Gepard (1.46 final)

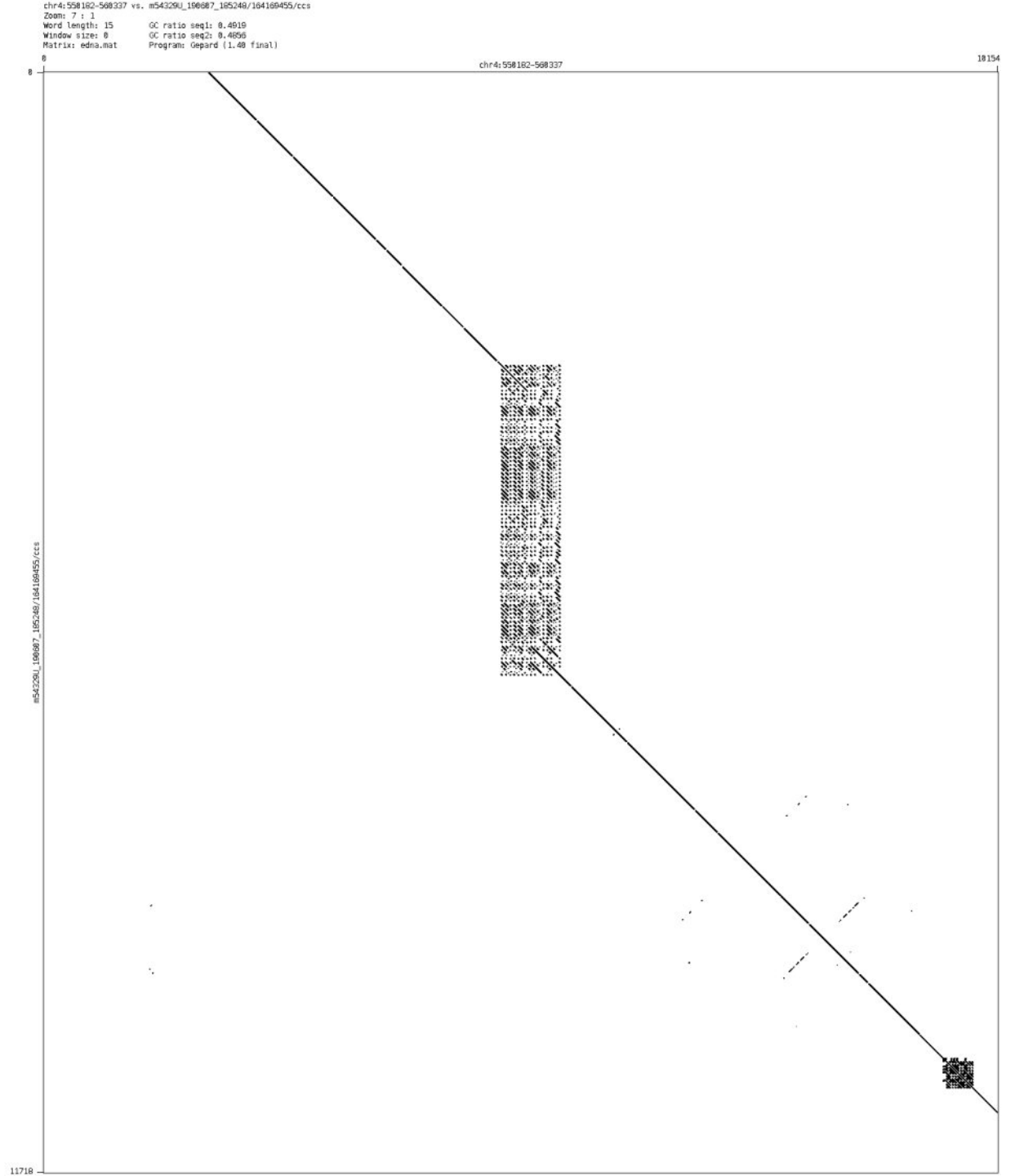


➤ chr3\_197459802\_197459965

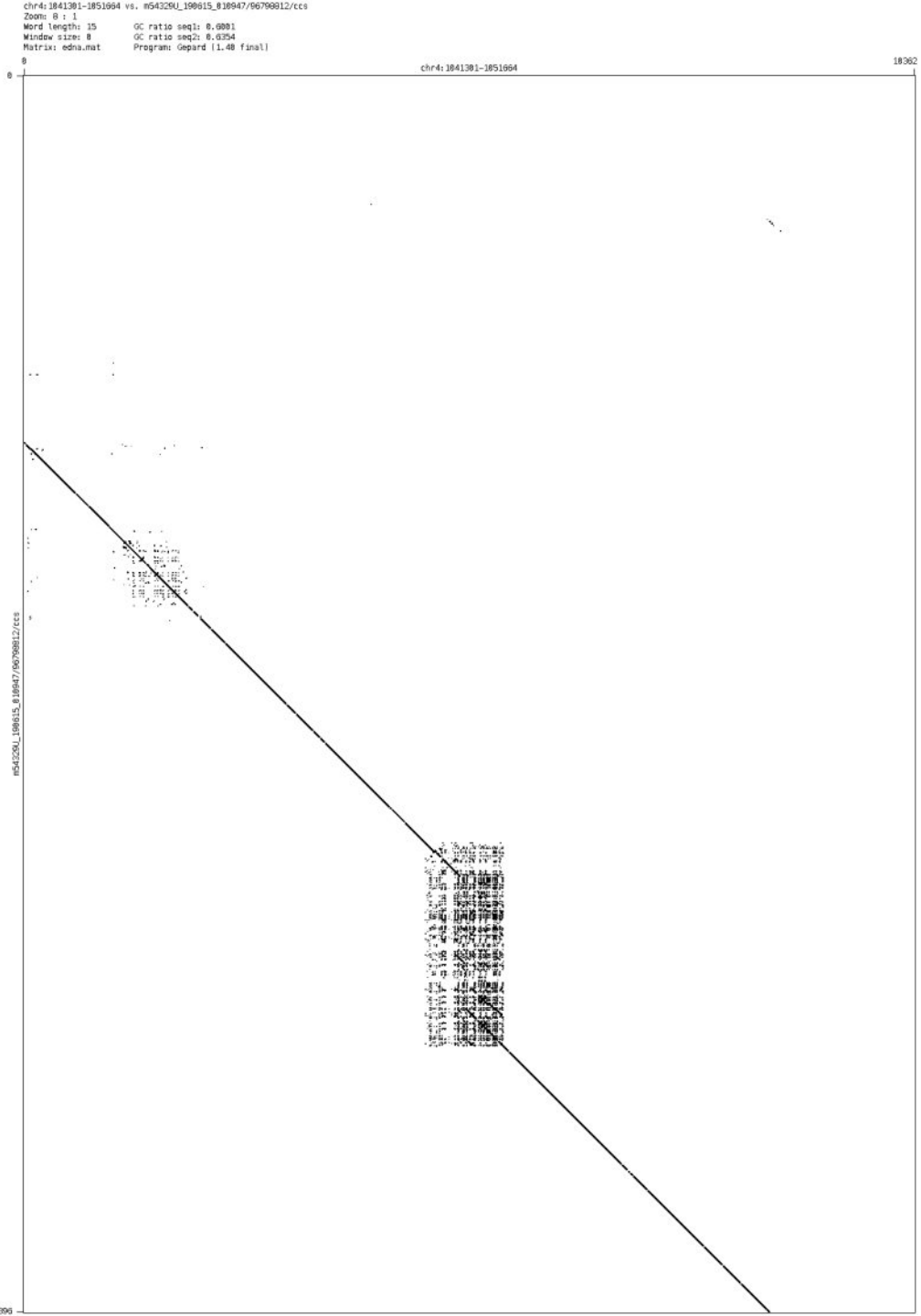
chr3:197454982-197464965 vs. n54328L\_198617\_231985/64227482/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.4984  
Window size: 8 GC ratio seq2: 0.4758  
Matrix: edna.mat Program: cephad (1.48 final)  
8



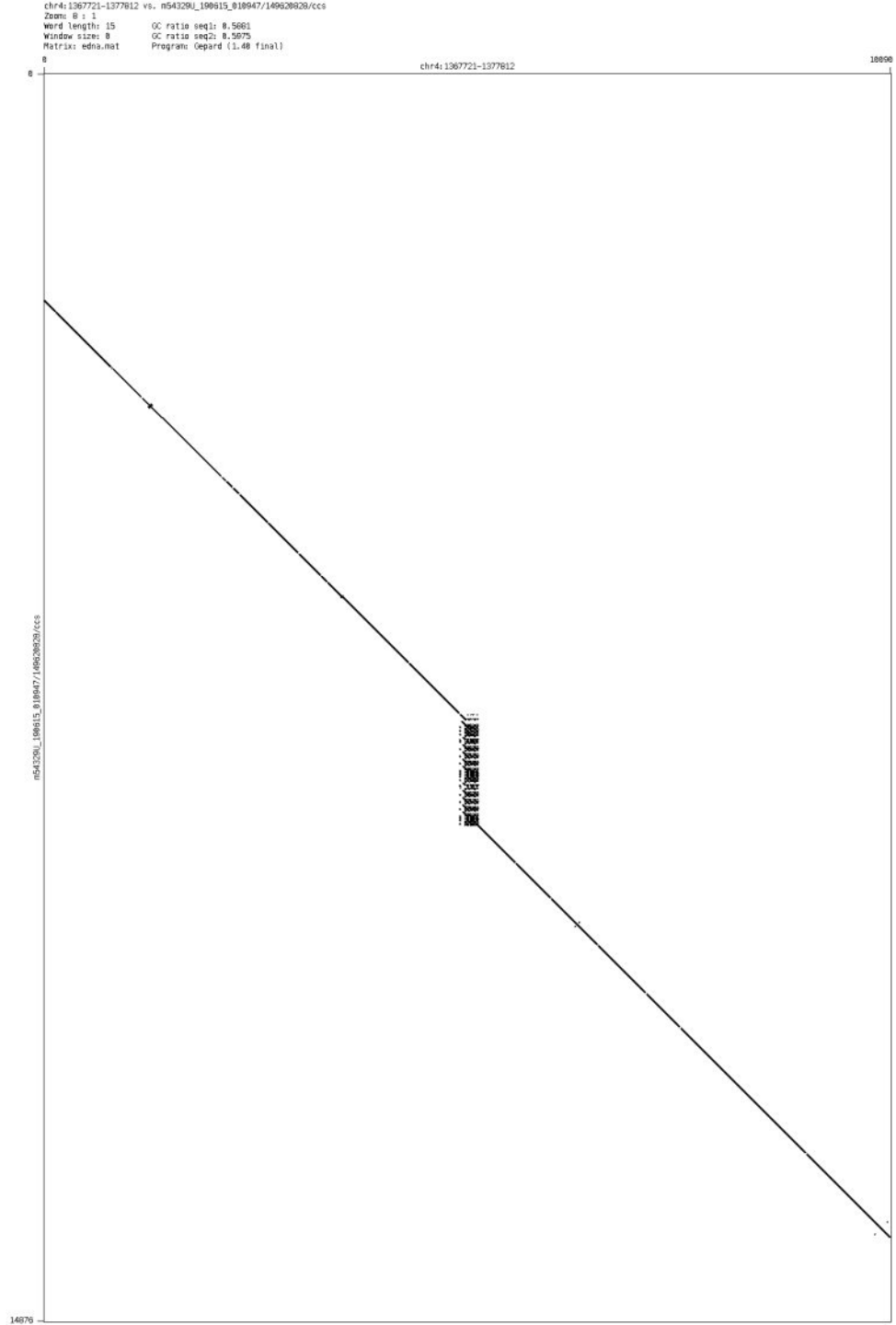
➤ chr4\_555182\_555337



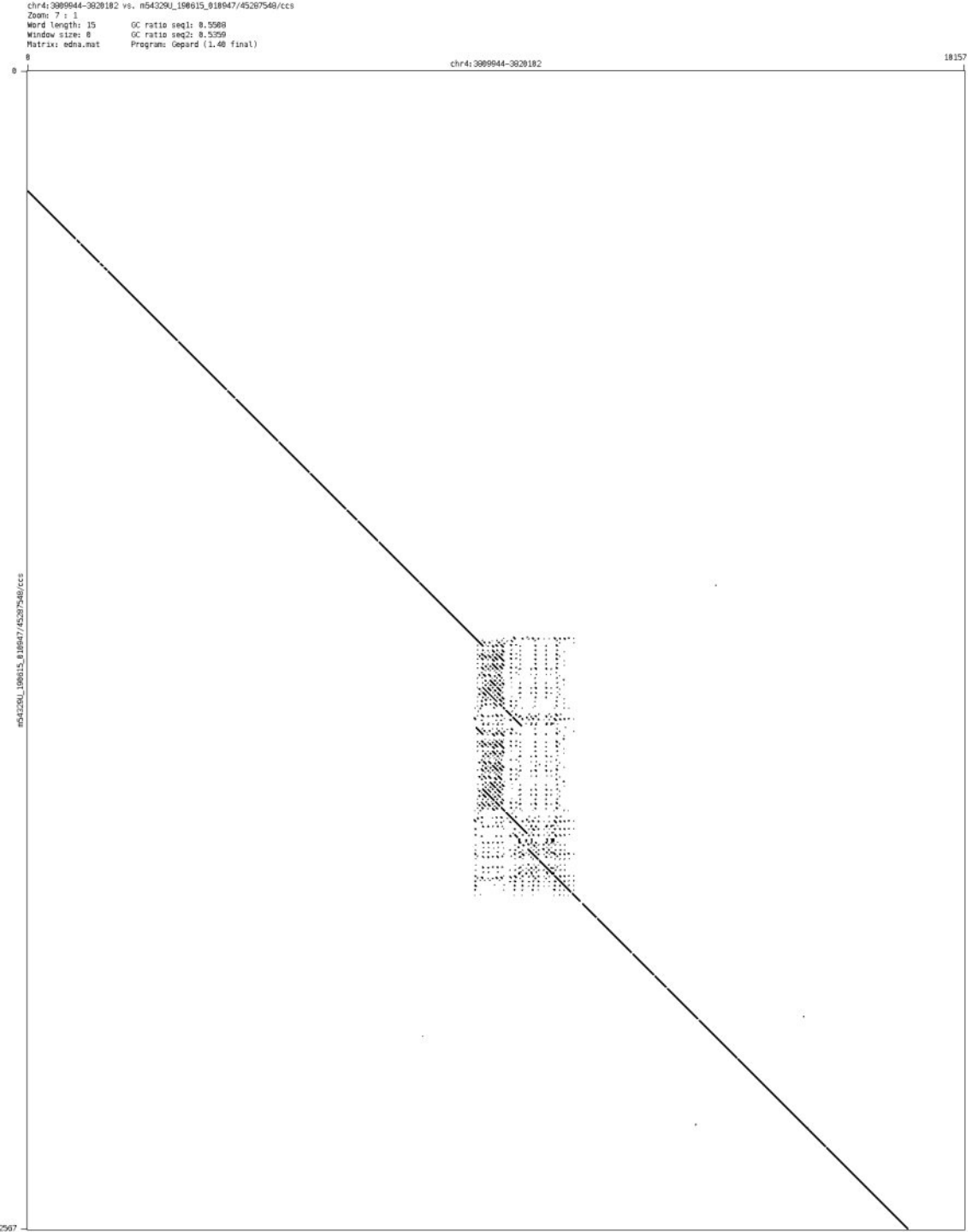
➤ chr4\_1046301\_1046664



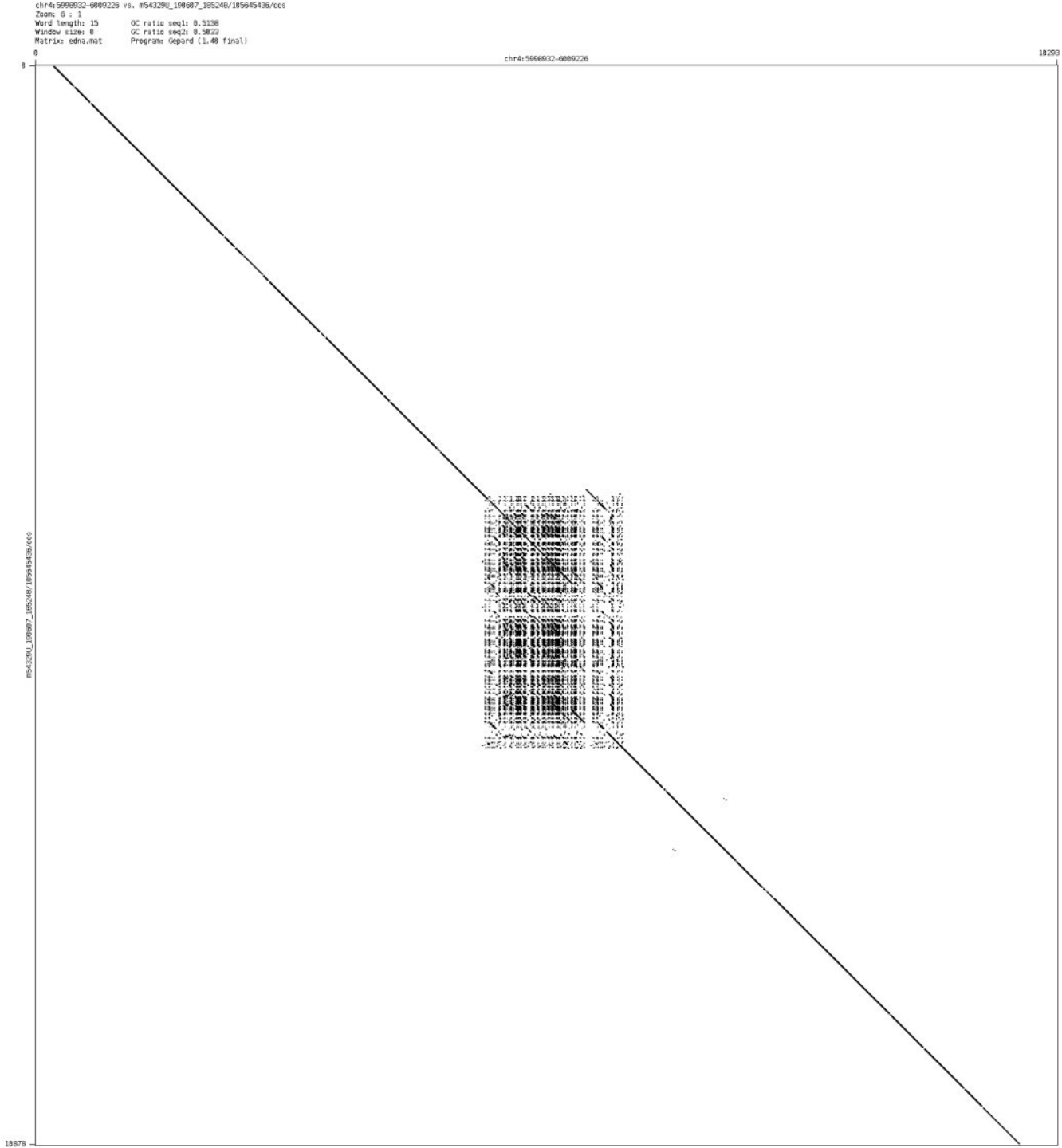
➤ chr4\_1372721\_1372812



➤ chr4\_3814944\_3815102

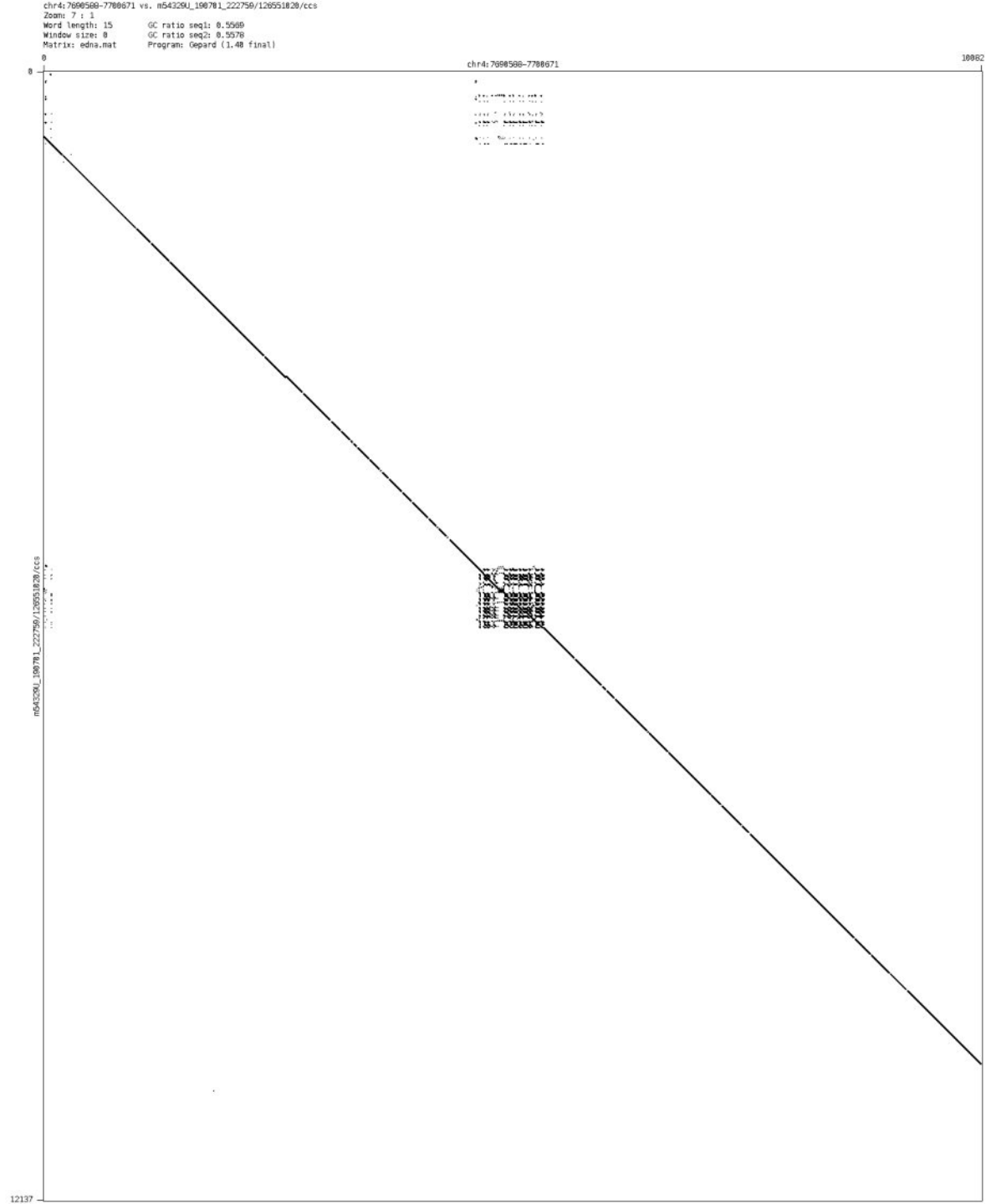


➤ chr4\_6003932\_6004226



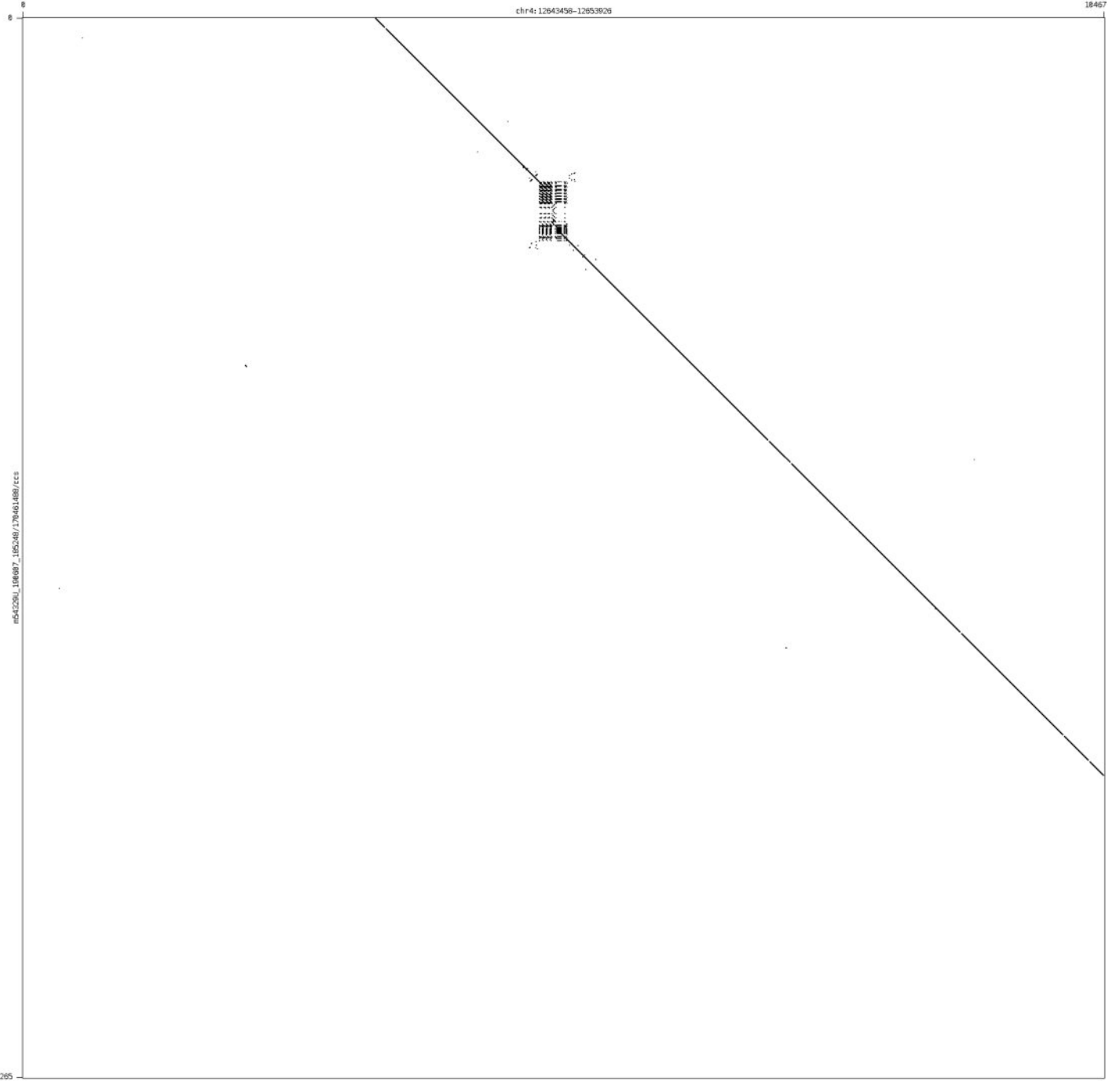


➤ chr4\_7695588\_7695671

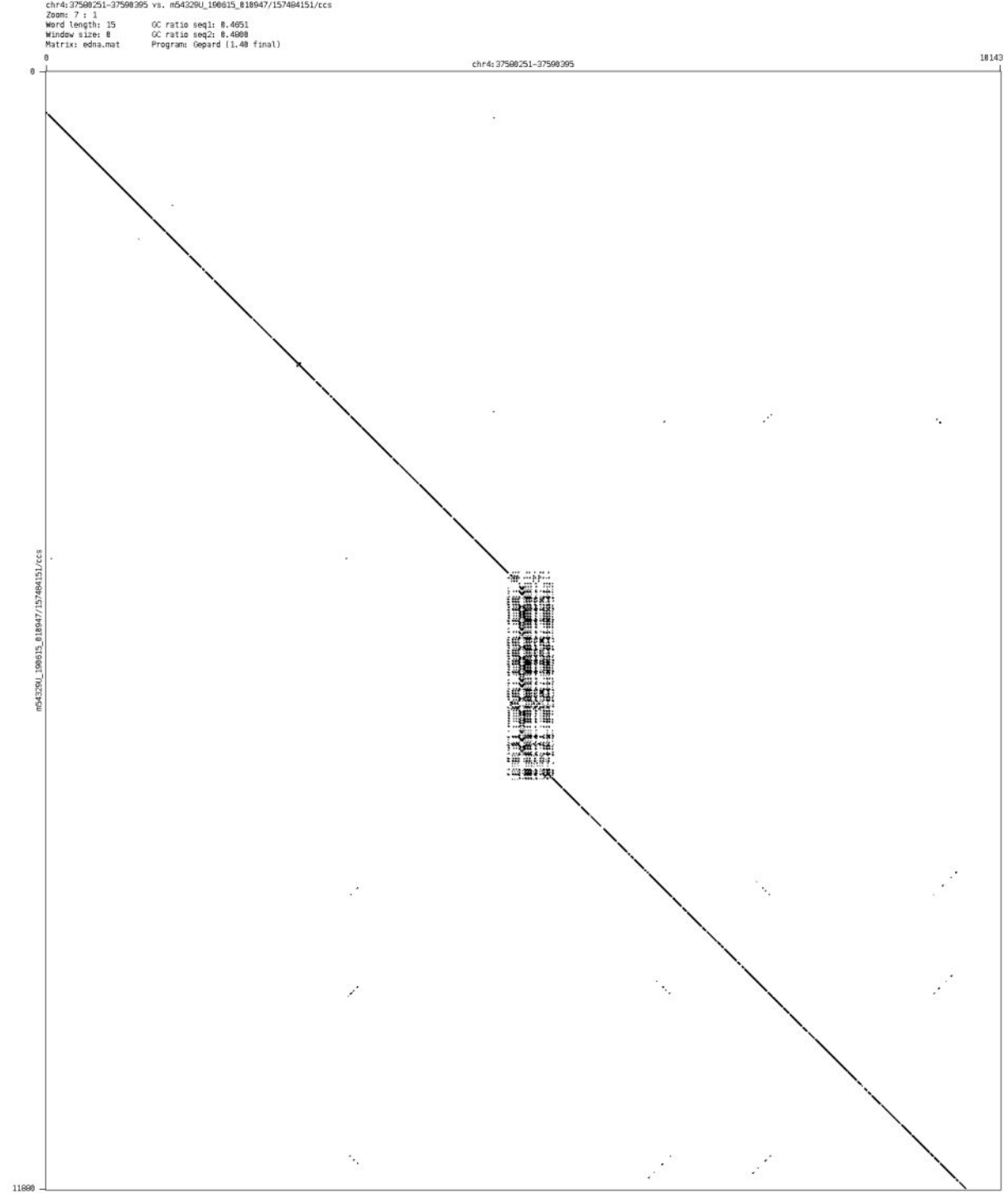


➤ chr4\_12648458\_12648926

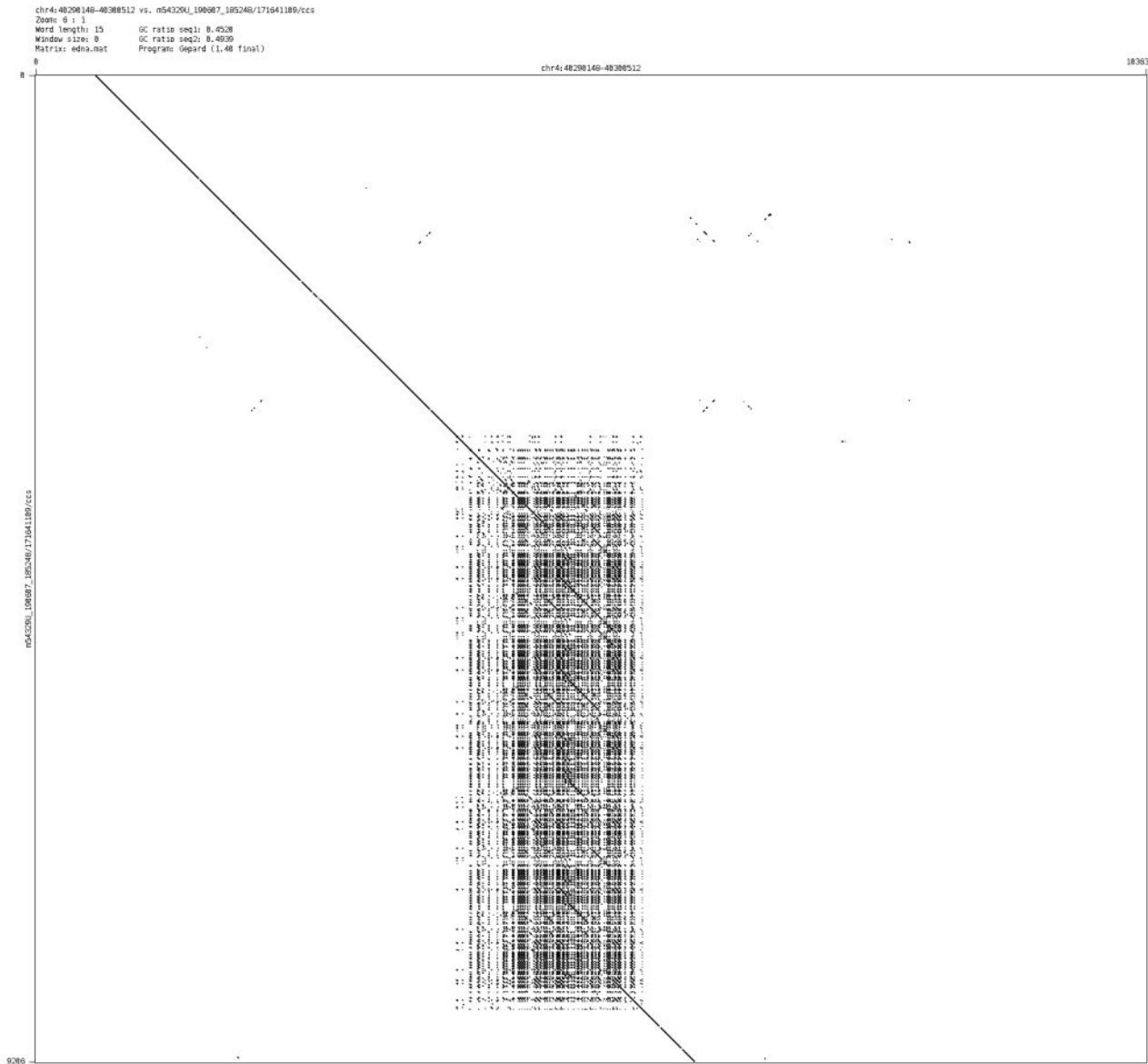
chr4:12643458-12653626 vs. m543291\_196687\_185248/178461488/ccs  
Zoom: 0 : 1  
Word length: 15 GC ratio seq1: 0.3715  
Window size: 0 GC ratio seq2: 0.3591  
Matrix: edna.mat Program: Gepard (1.48 final)



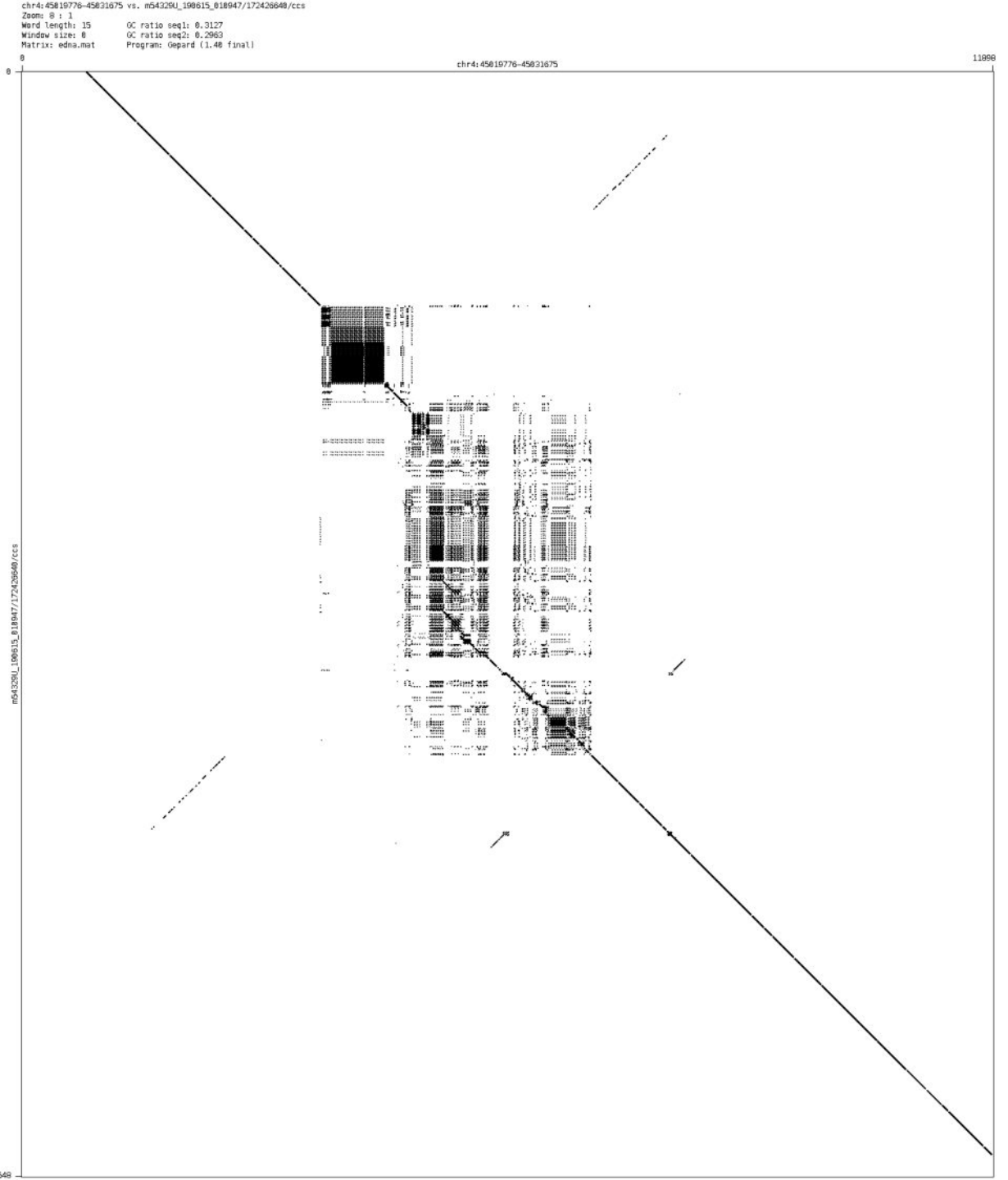
➤ chr4\_37585251\_37585395



➤ chr4\_40295148\_40295512



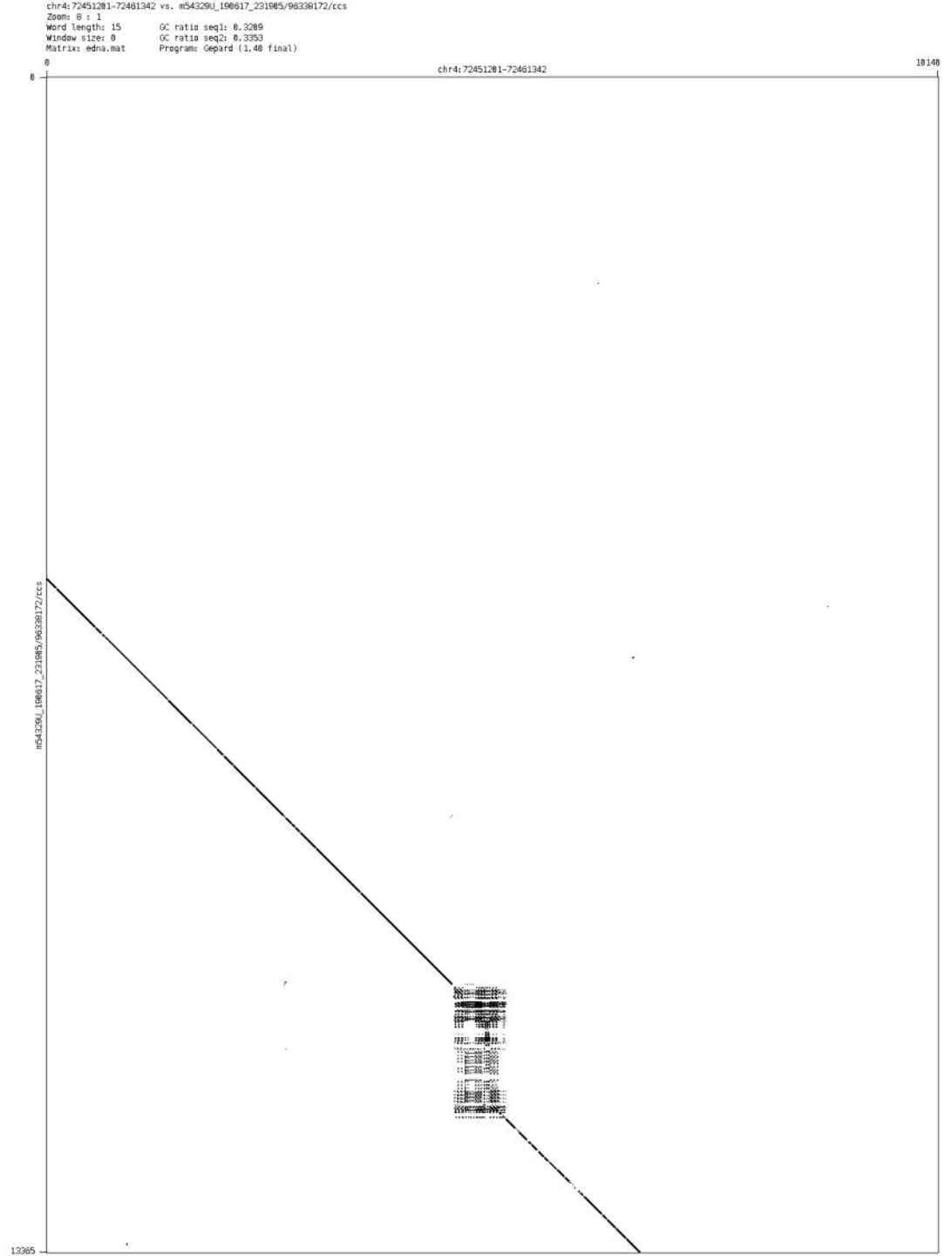
➤ chr4\_45024776\_45026675



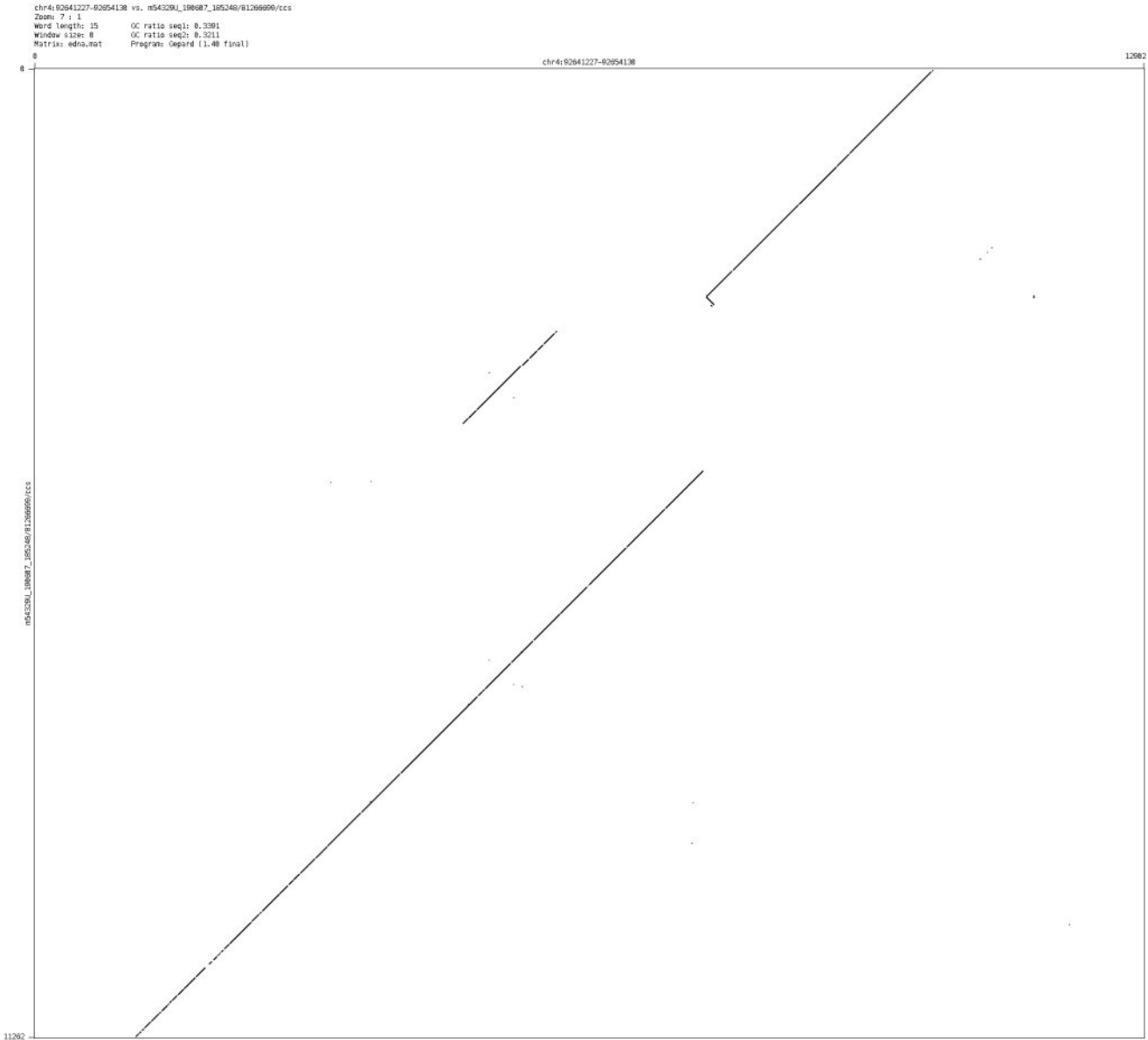
➤ chr4\_58562600\_58569633



➤ chr4\_72456201\_72456342

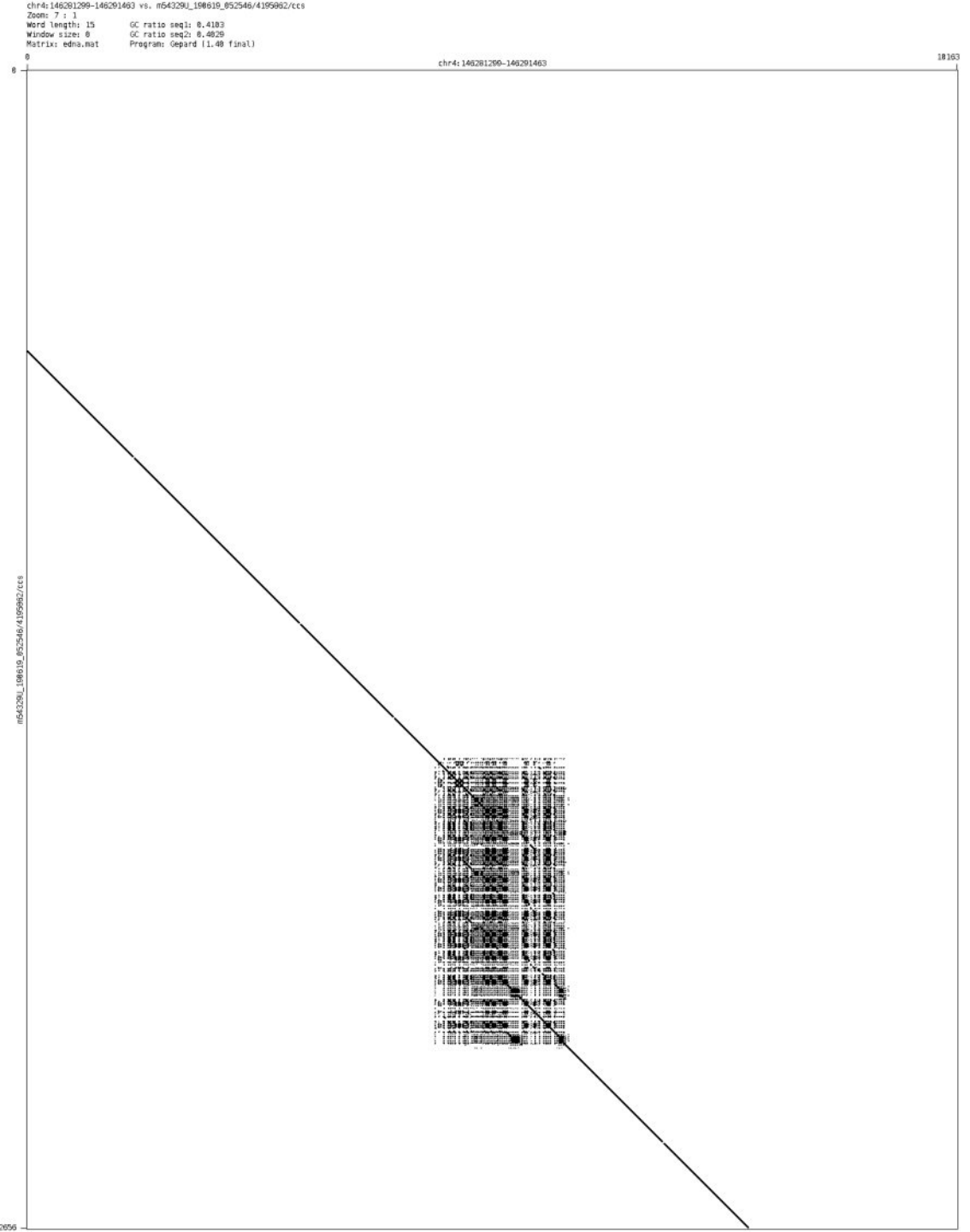


➤ chr4\_92646227\_92649130

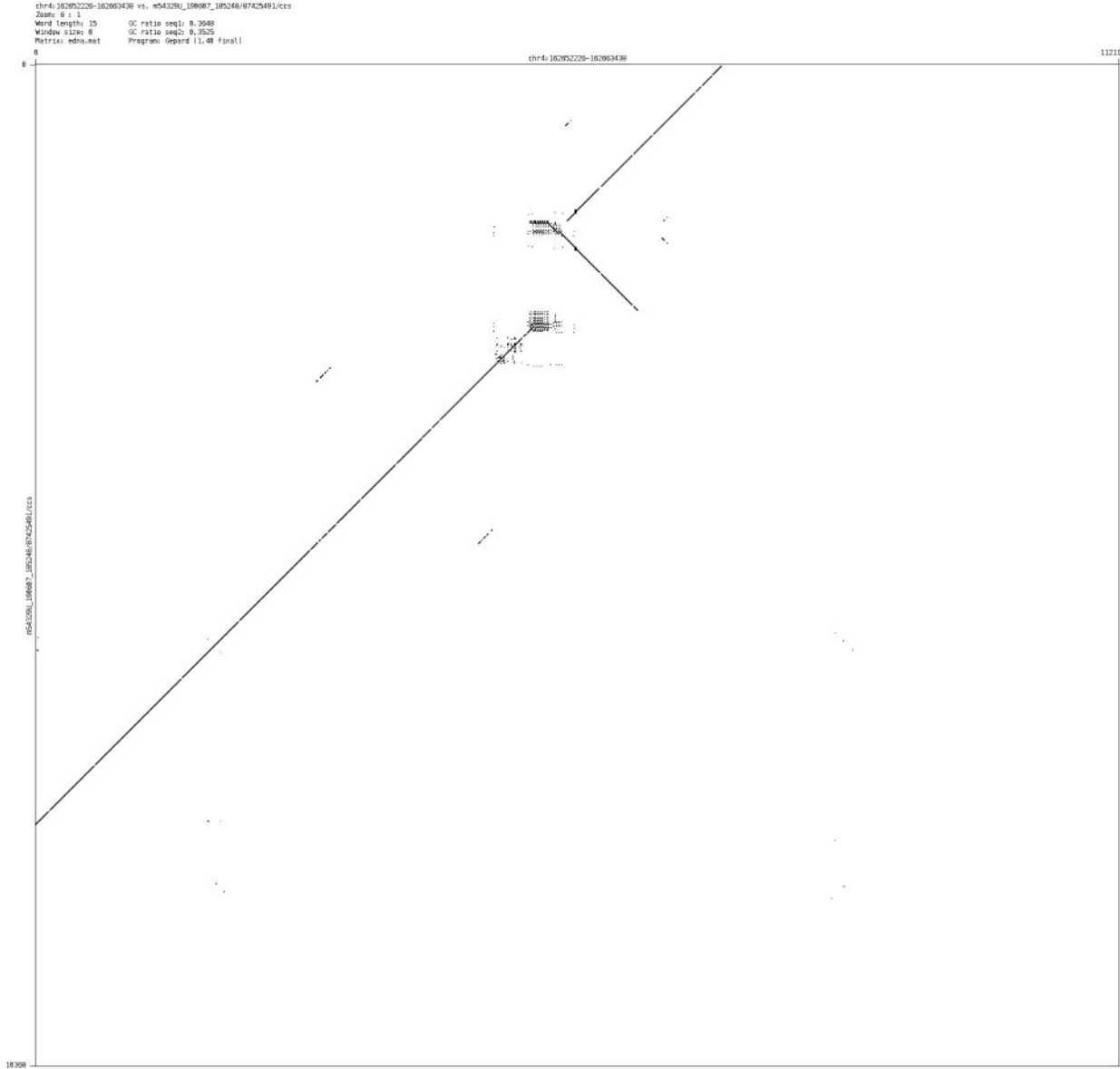




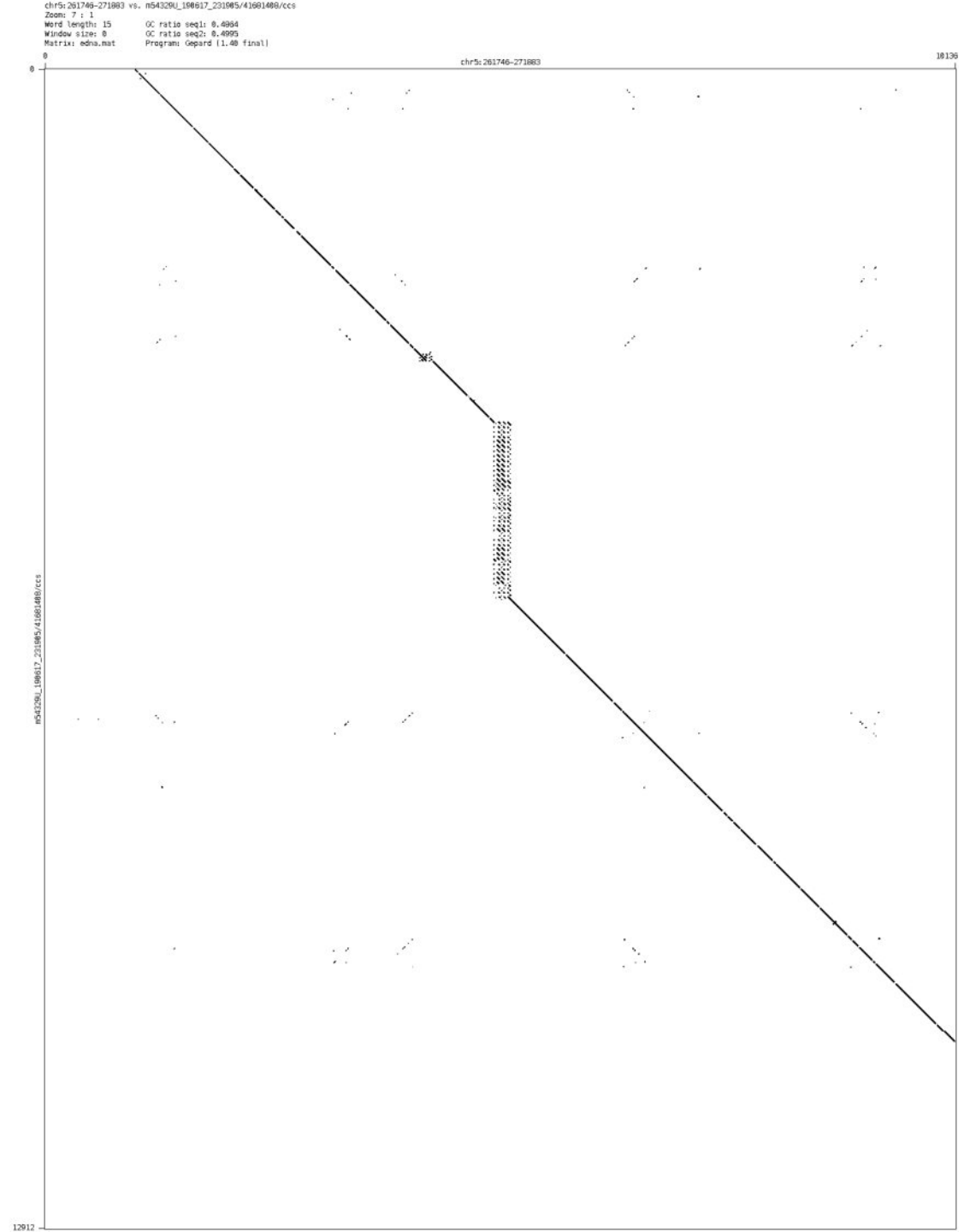
➤ chr4\_146286299\_146286463



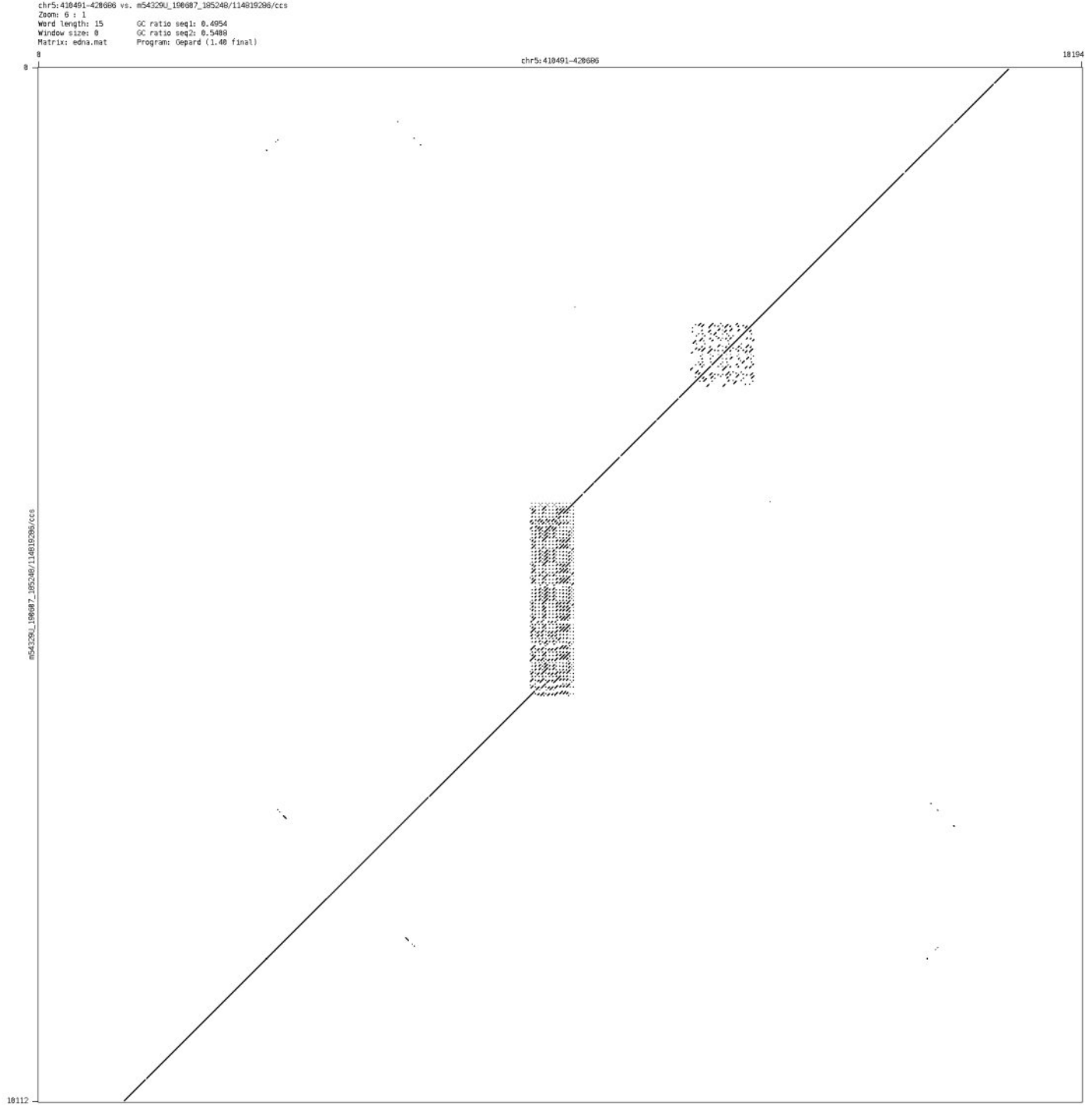
➤ chr4\_162657226\_162658438



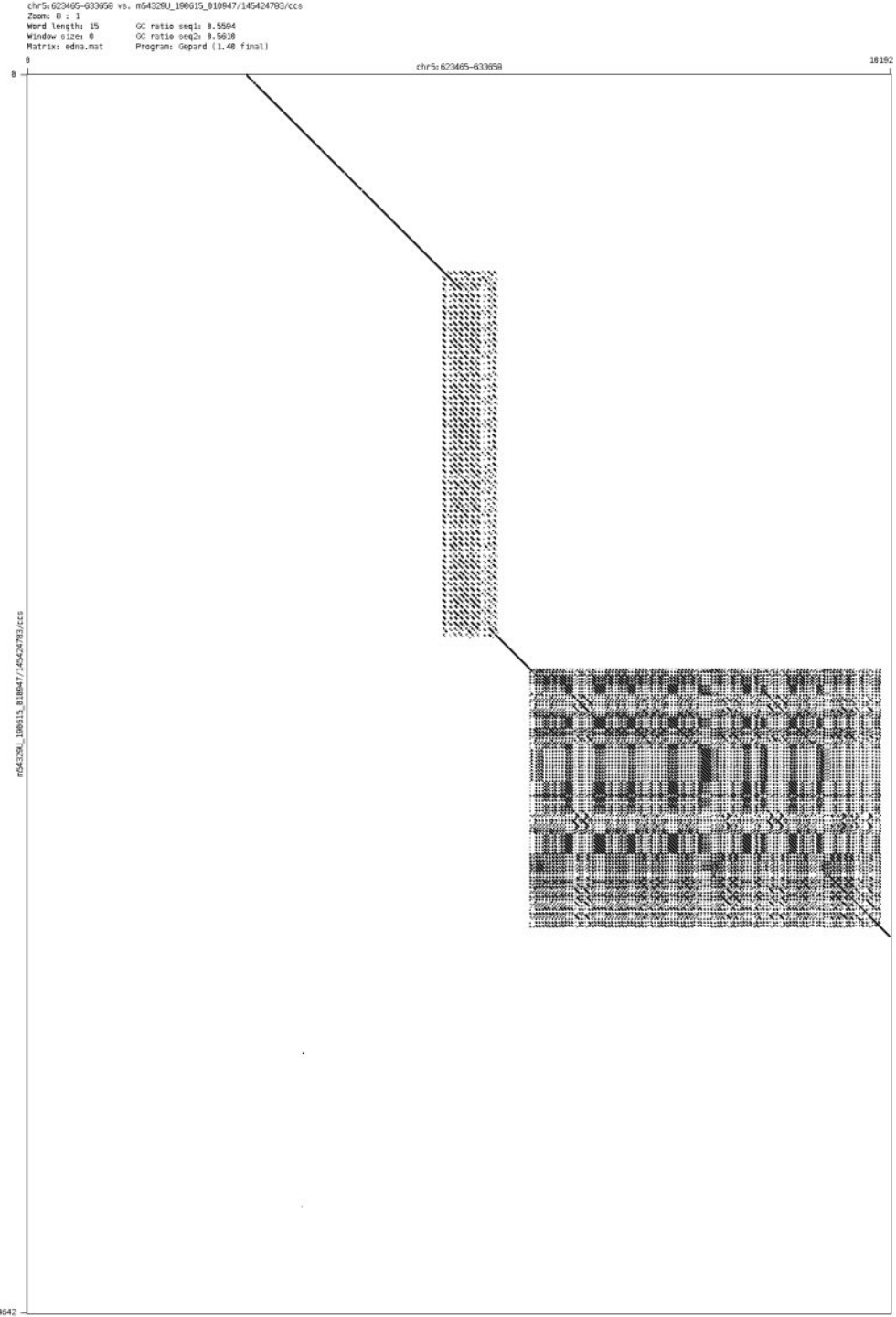
➤ chr5\_266746\_266883



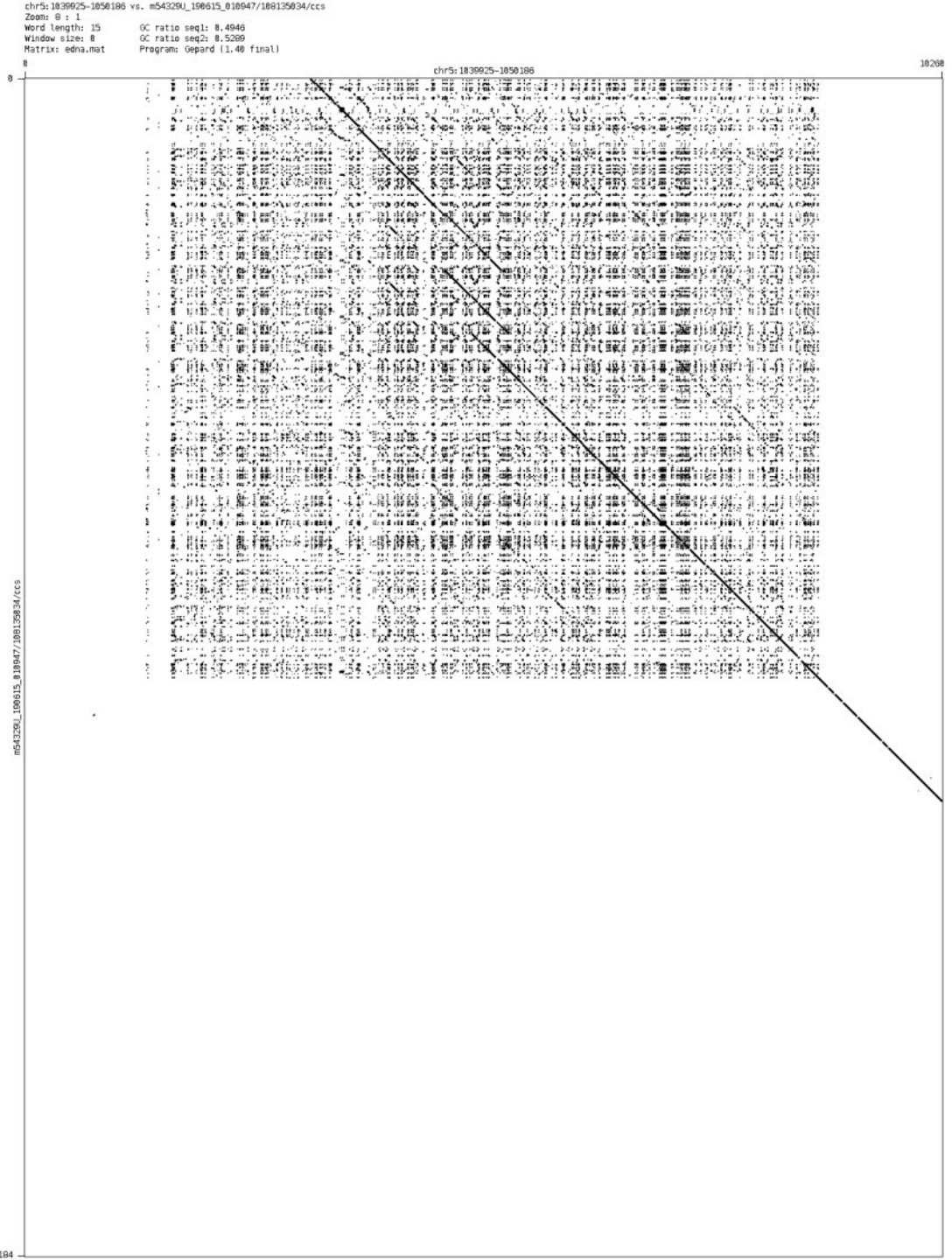
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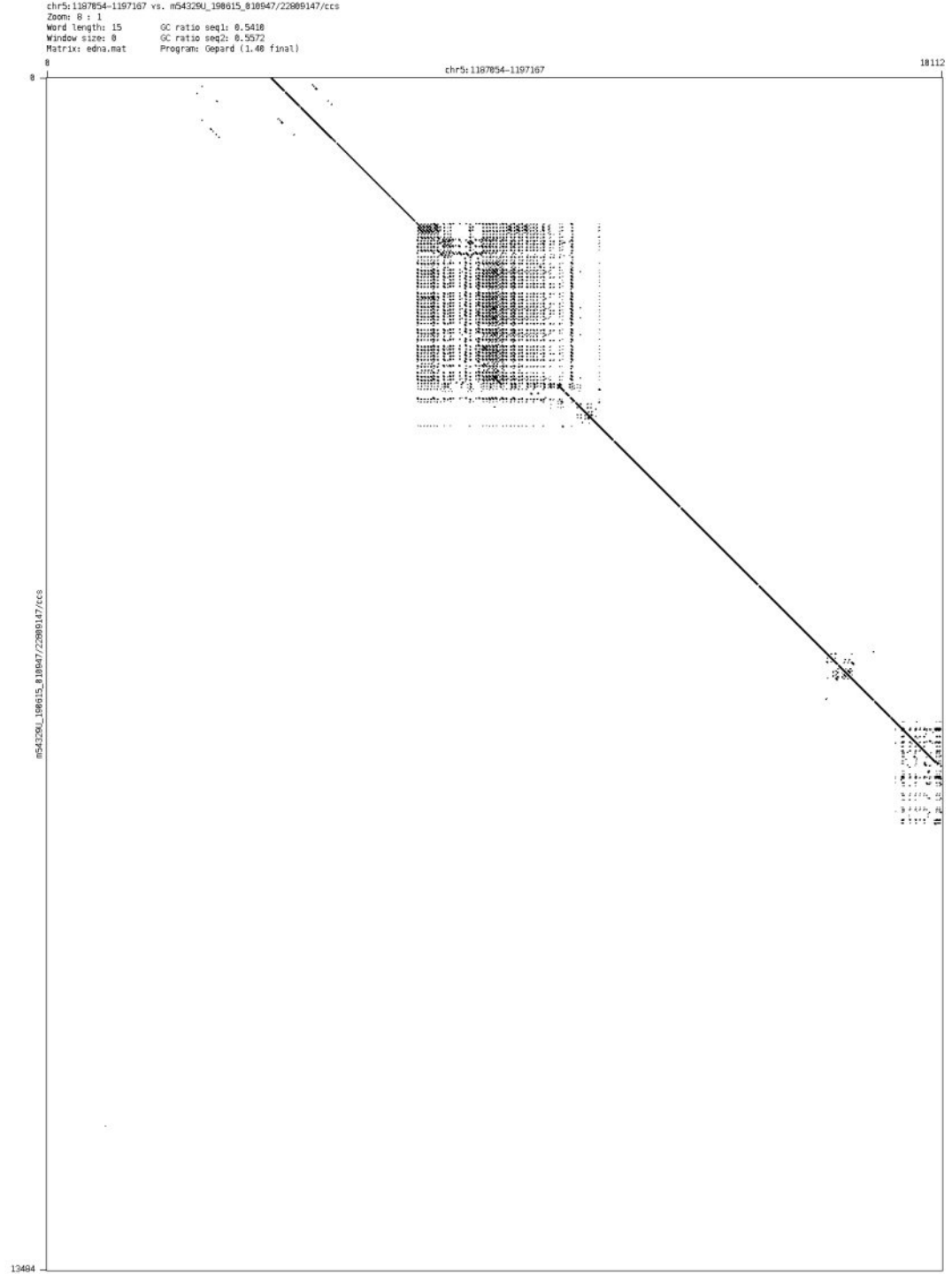
➤ chr5\_628465\_628658



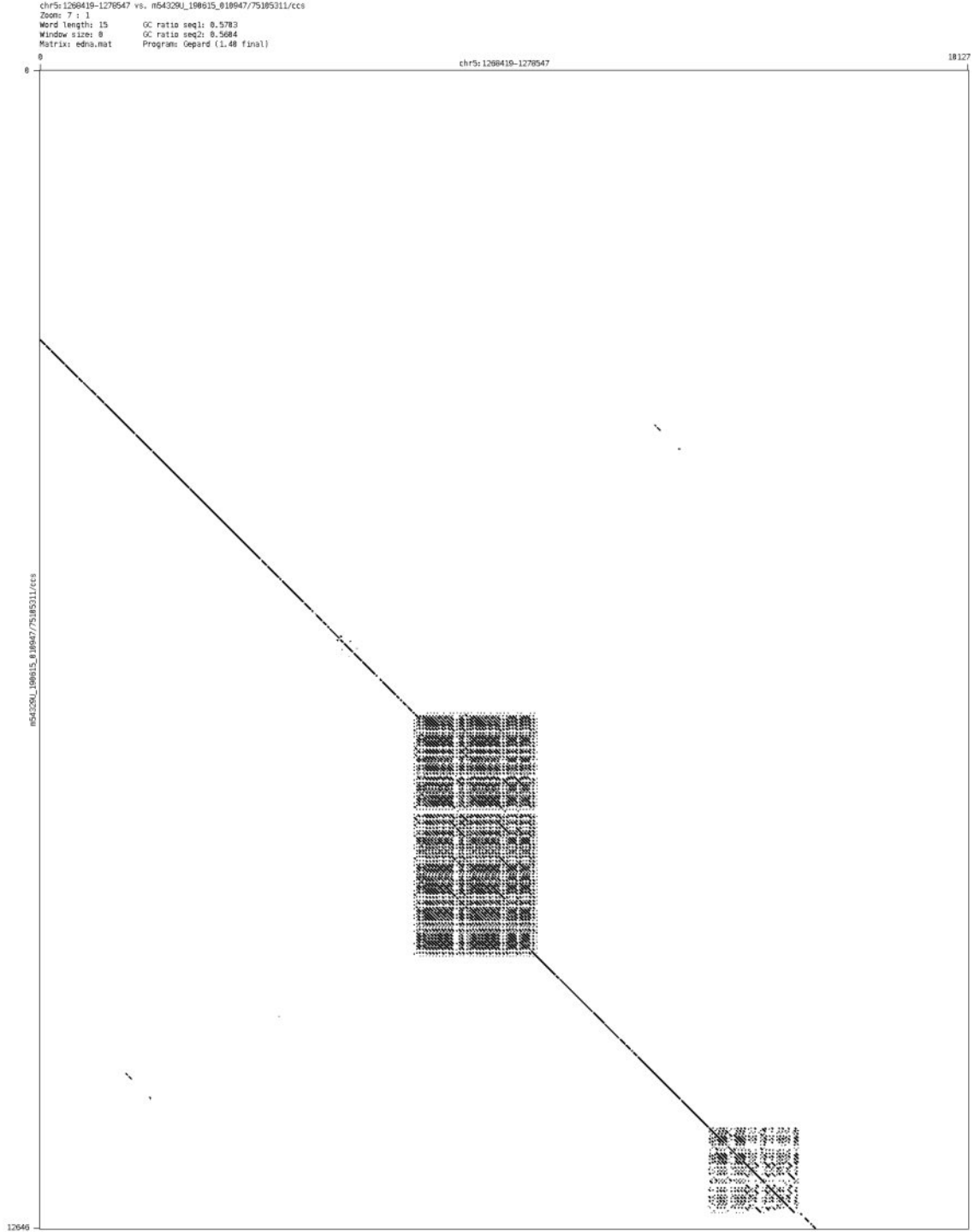
➤ chr5\_1044925\_1045186



➤ chr5\_1192054\_1192167



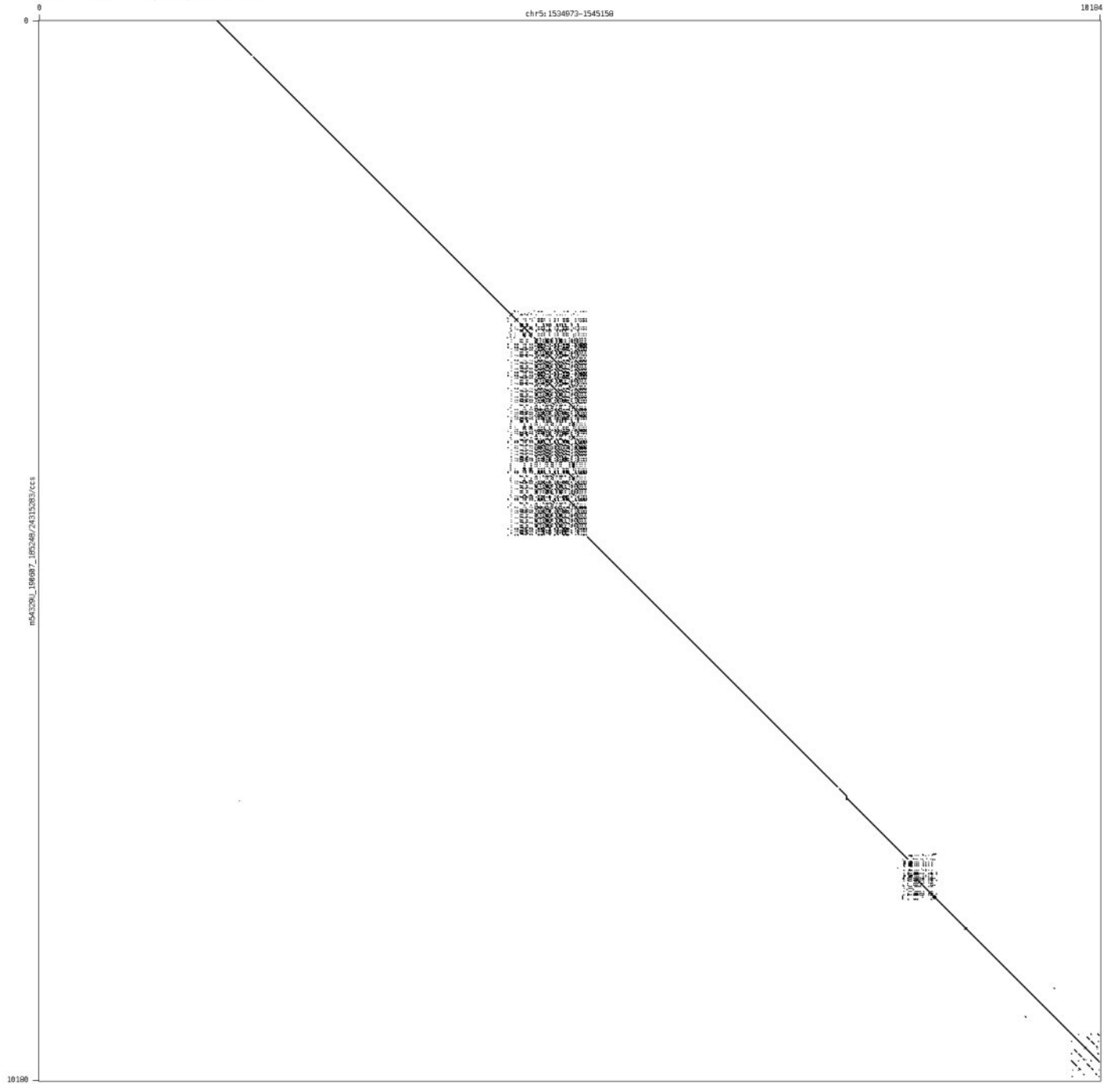
➤ chr5\_1273419\_1273547



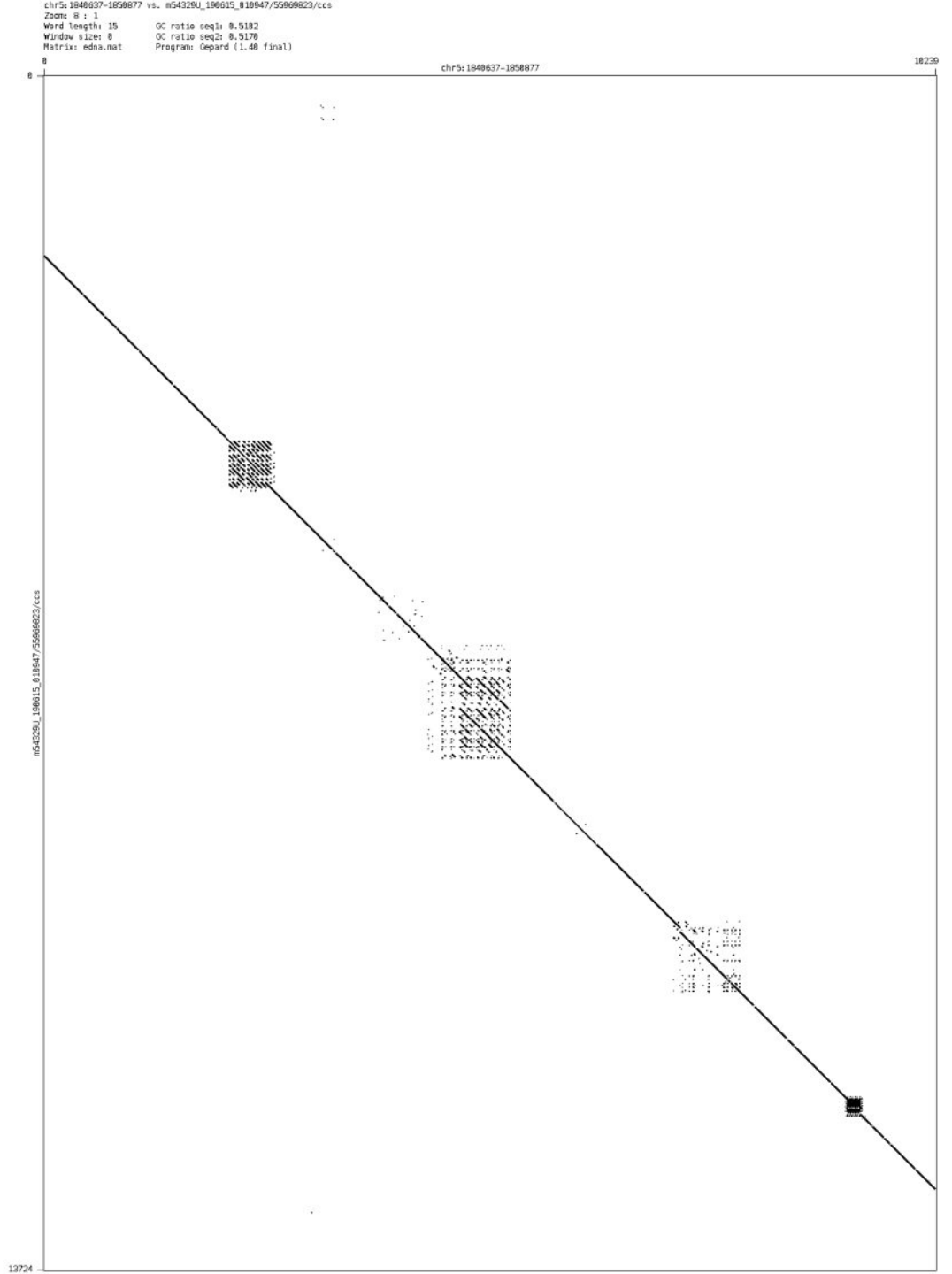


➤ chr5\_1539973\_1540158

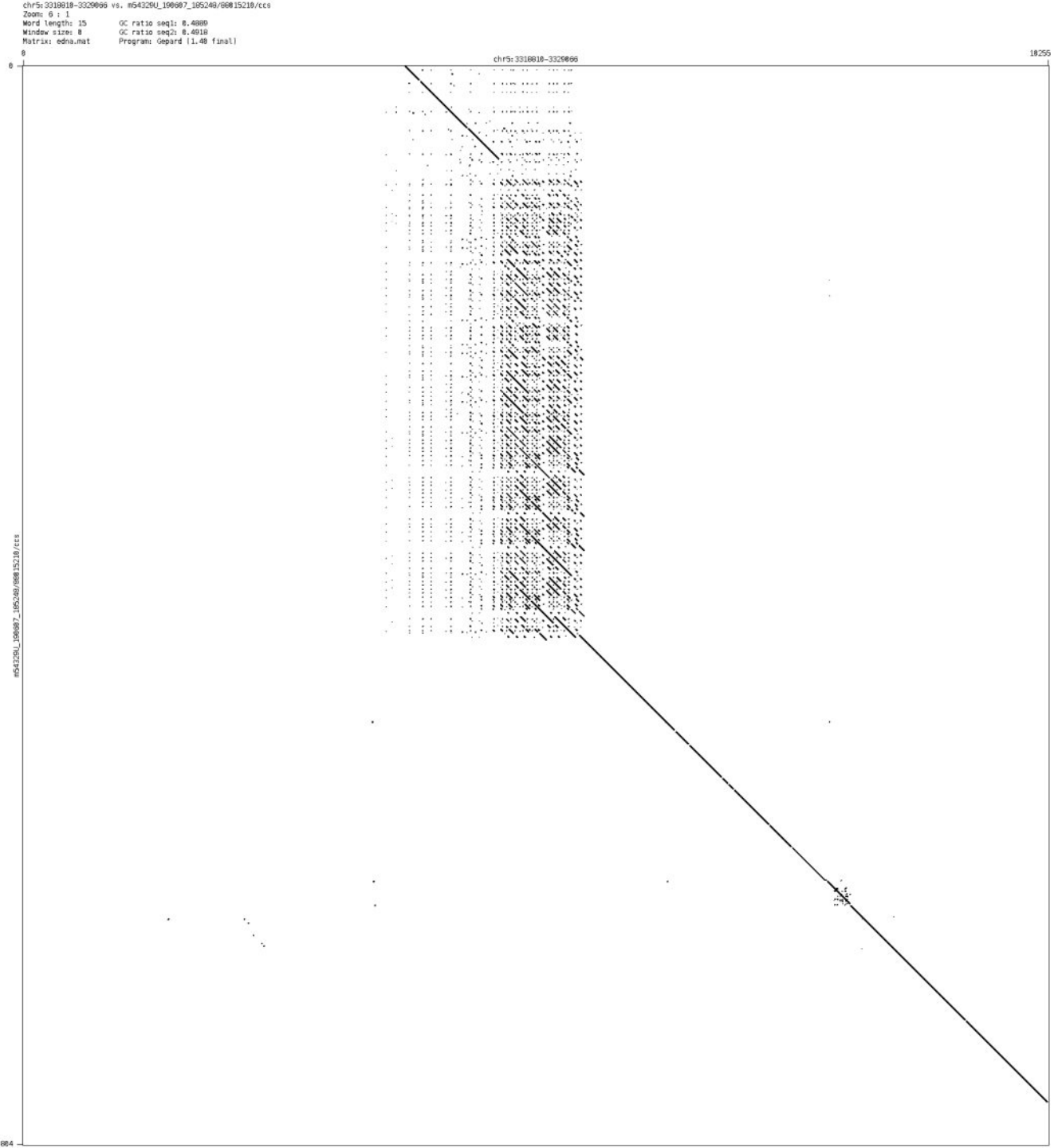
chr5:1534973-1545158 vs. m543290\_190867\_165248/24315283/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.4965  
Window size: 8 GC ratio seq2: 0.5395  
Matrix: edna.mat Program: (cpard [1.48 final])



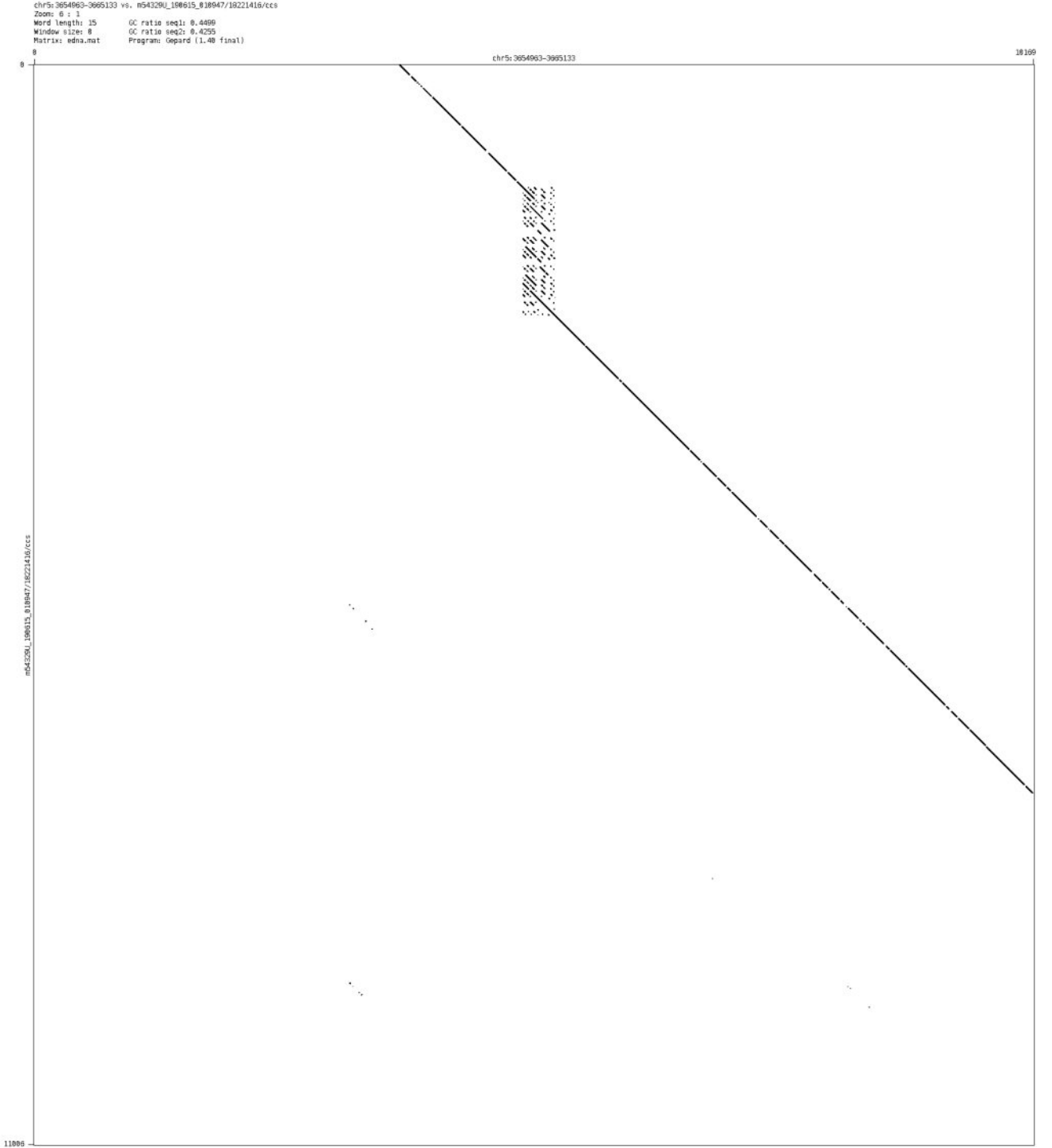
➤ chr5\_1845637\_1845877



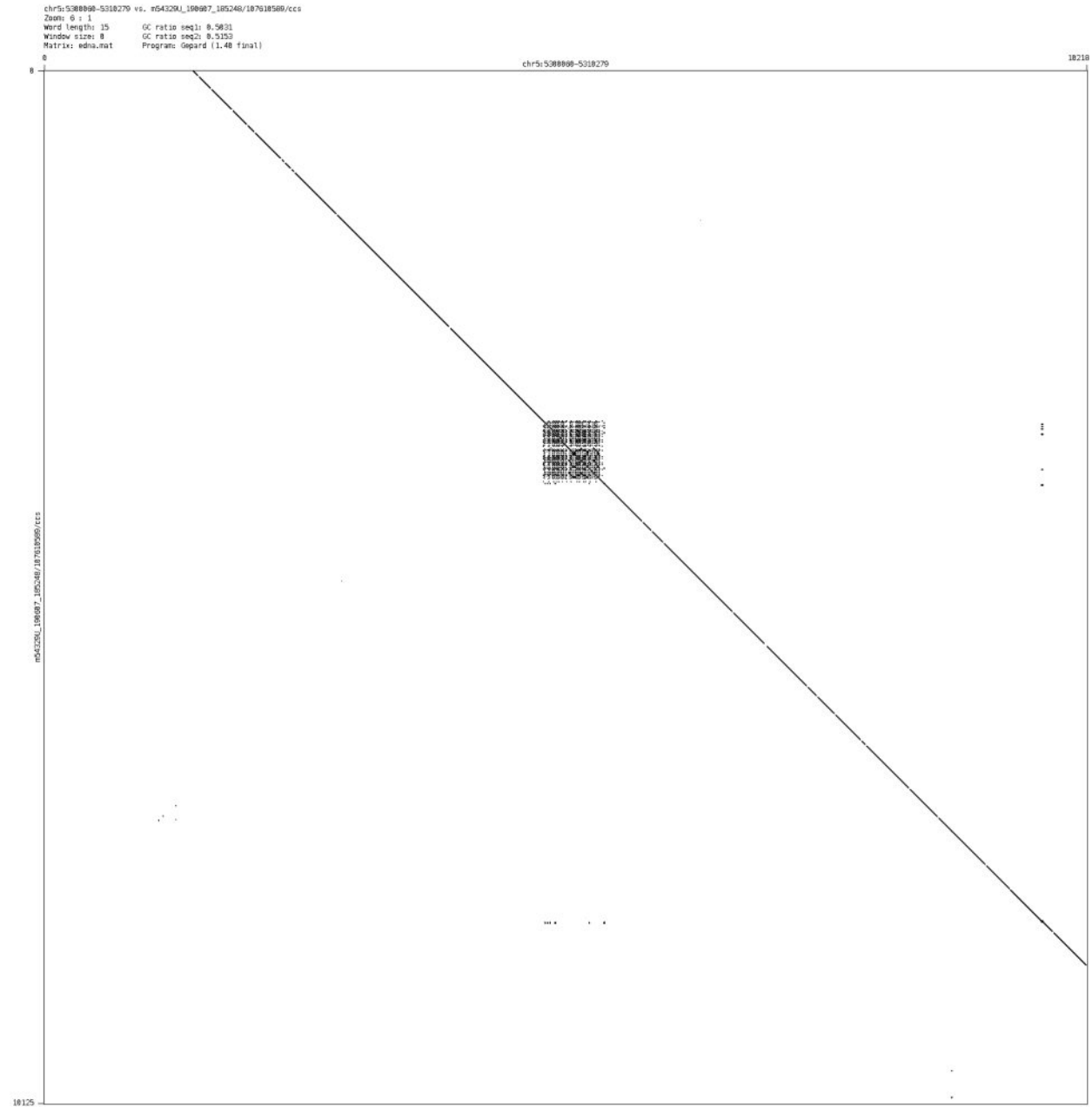
➤ chr5\_3323810\_3324066



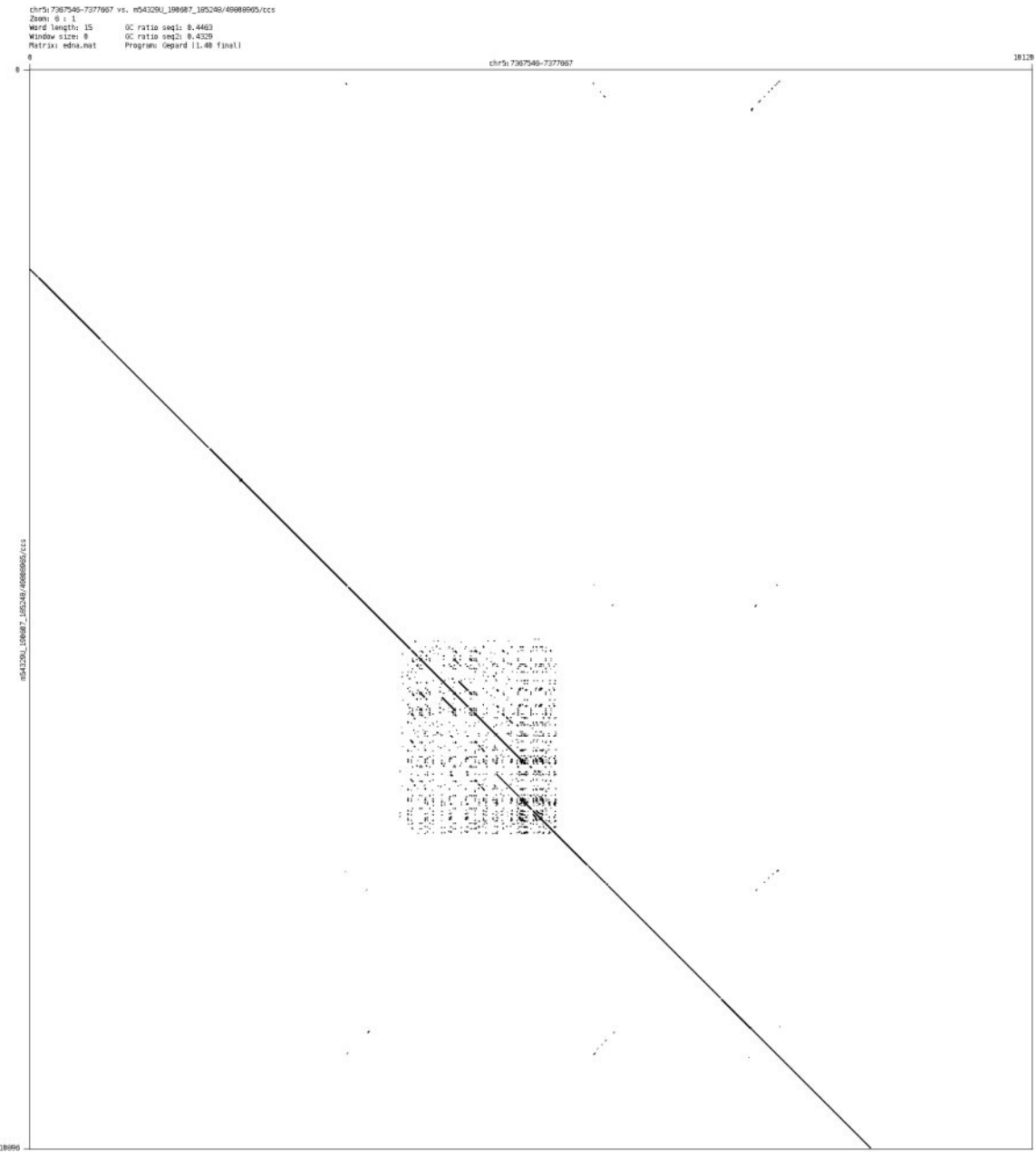
➤ chr5\_3659963\_3660133



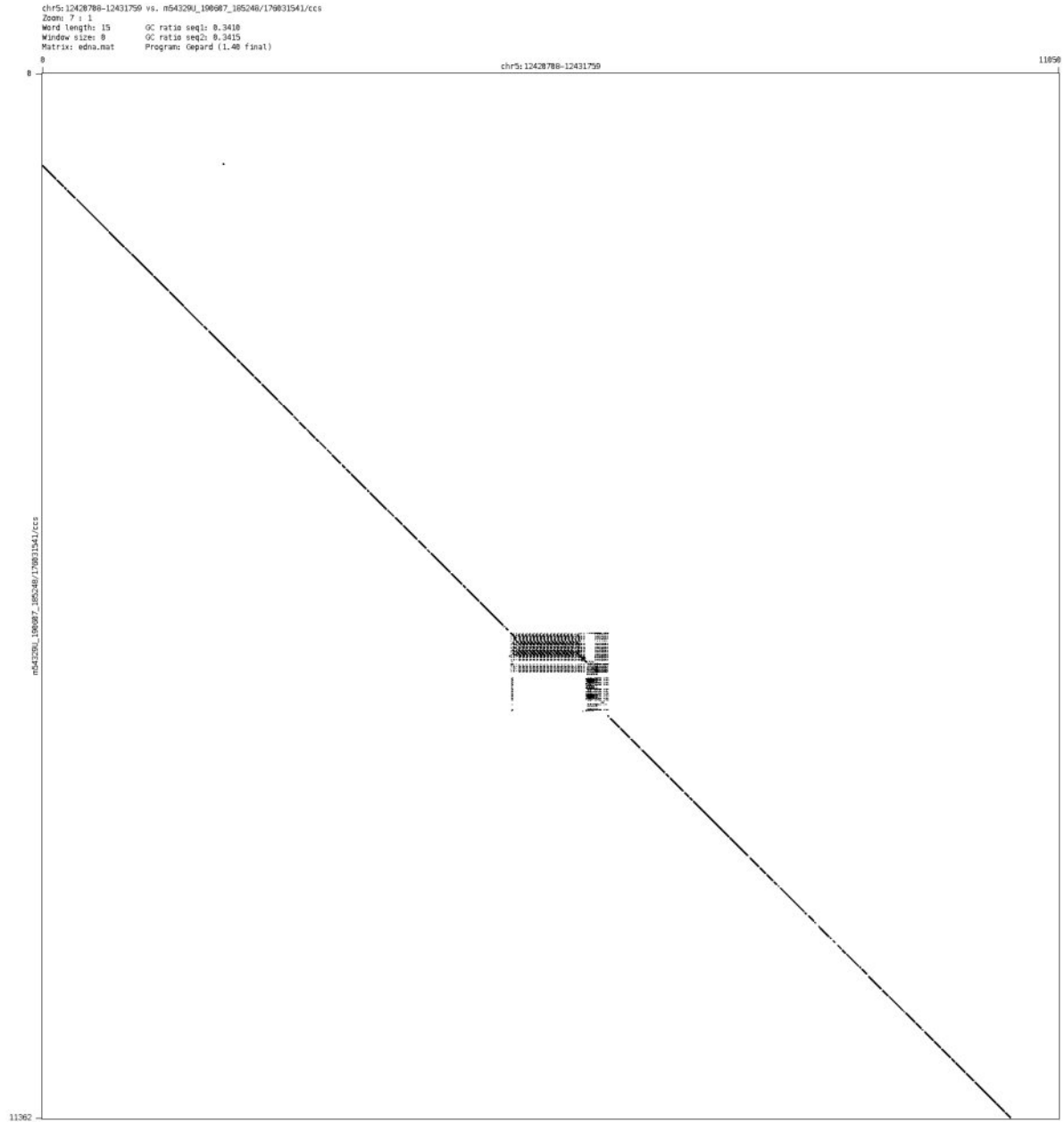
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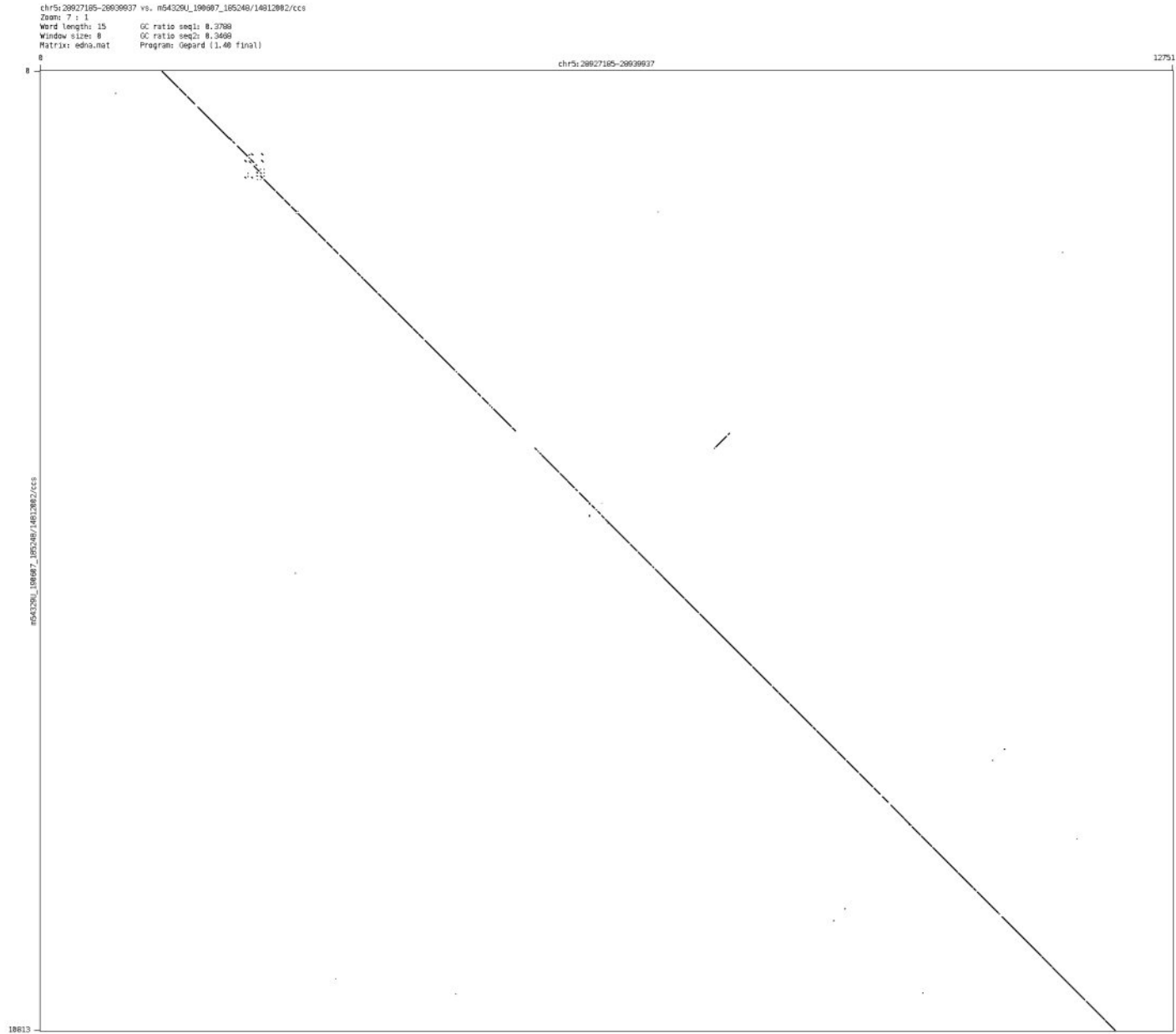
➤ chr5\_7372546\_7372667



➤ chr5\_12425708\_12426759

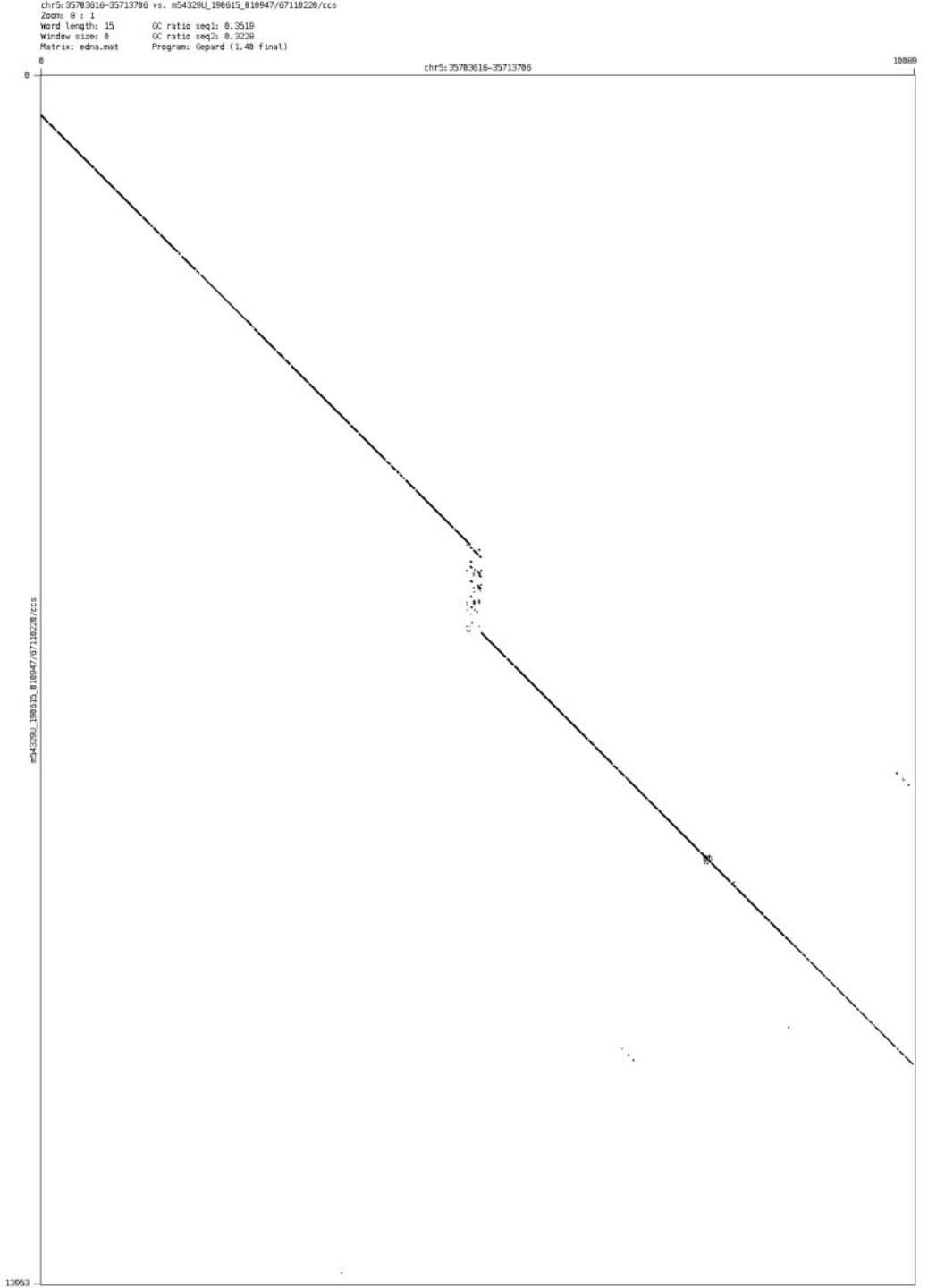


➤ chr5\_28932185\_28934937

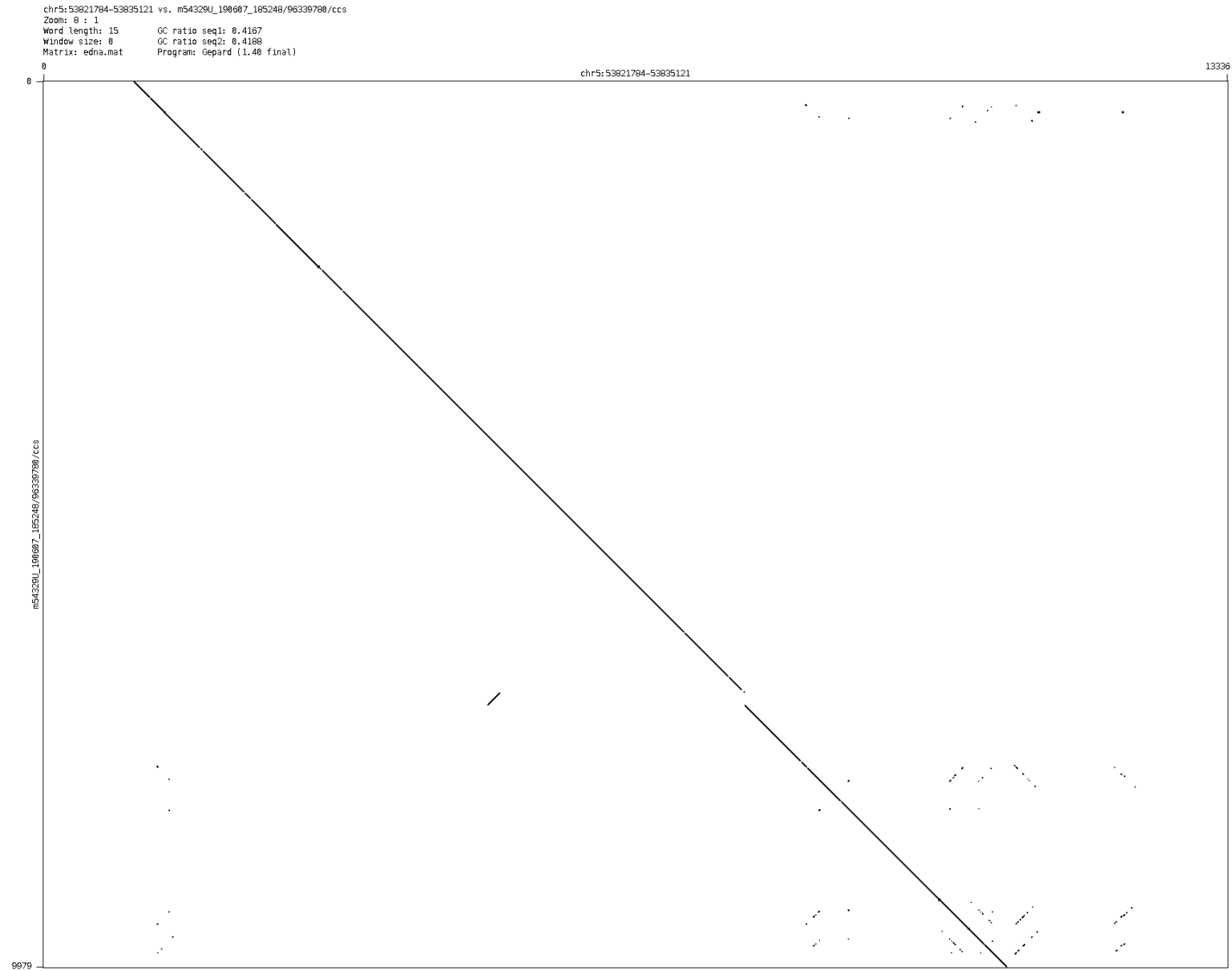




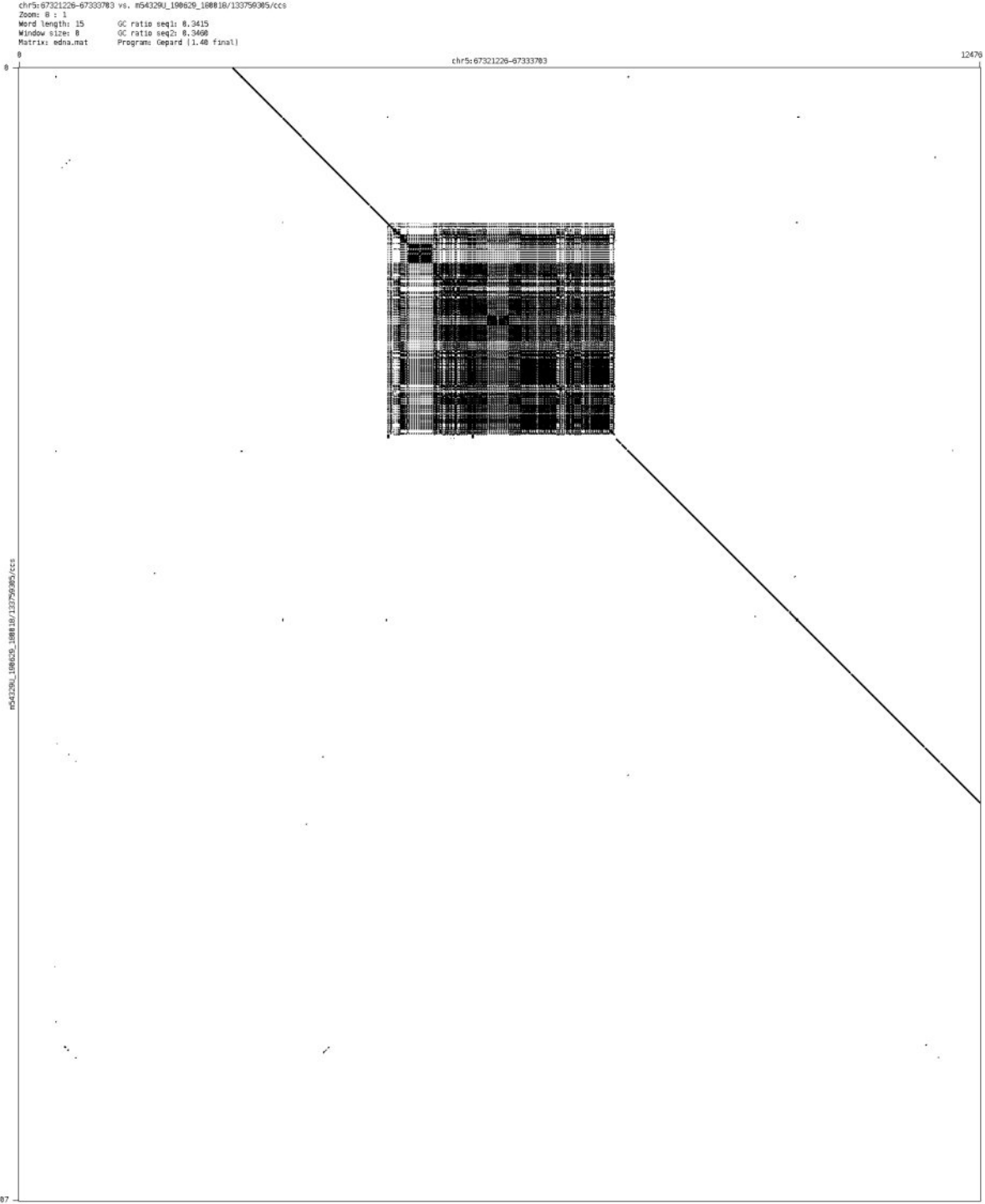
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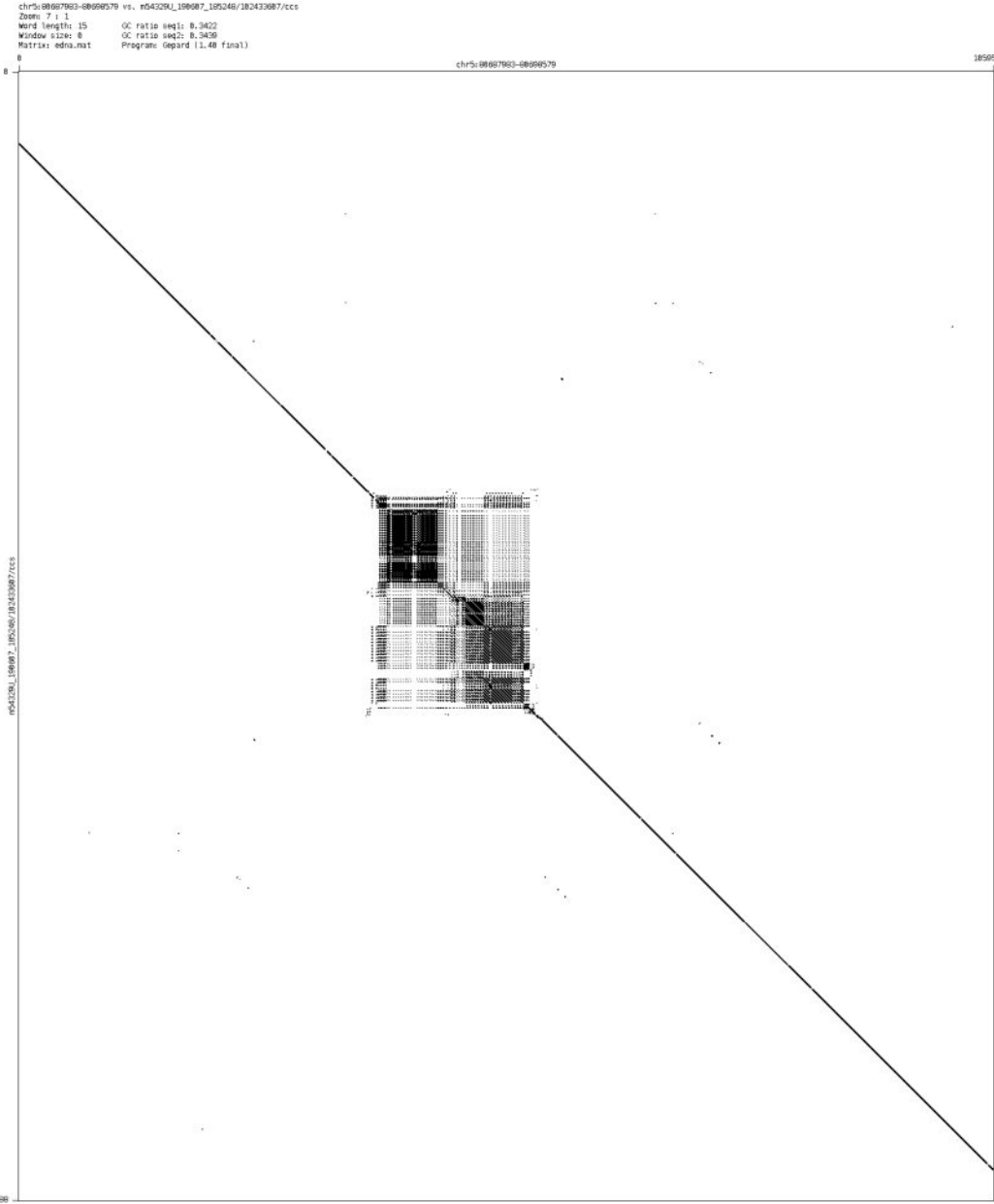
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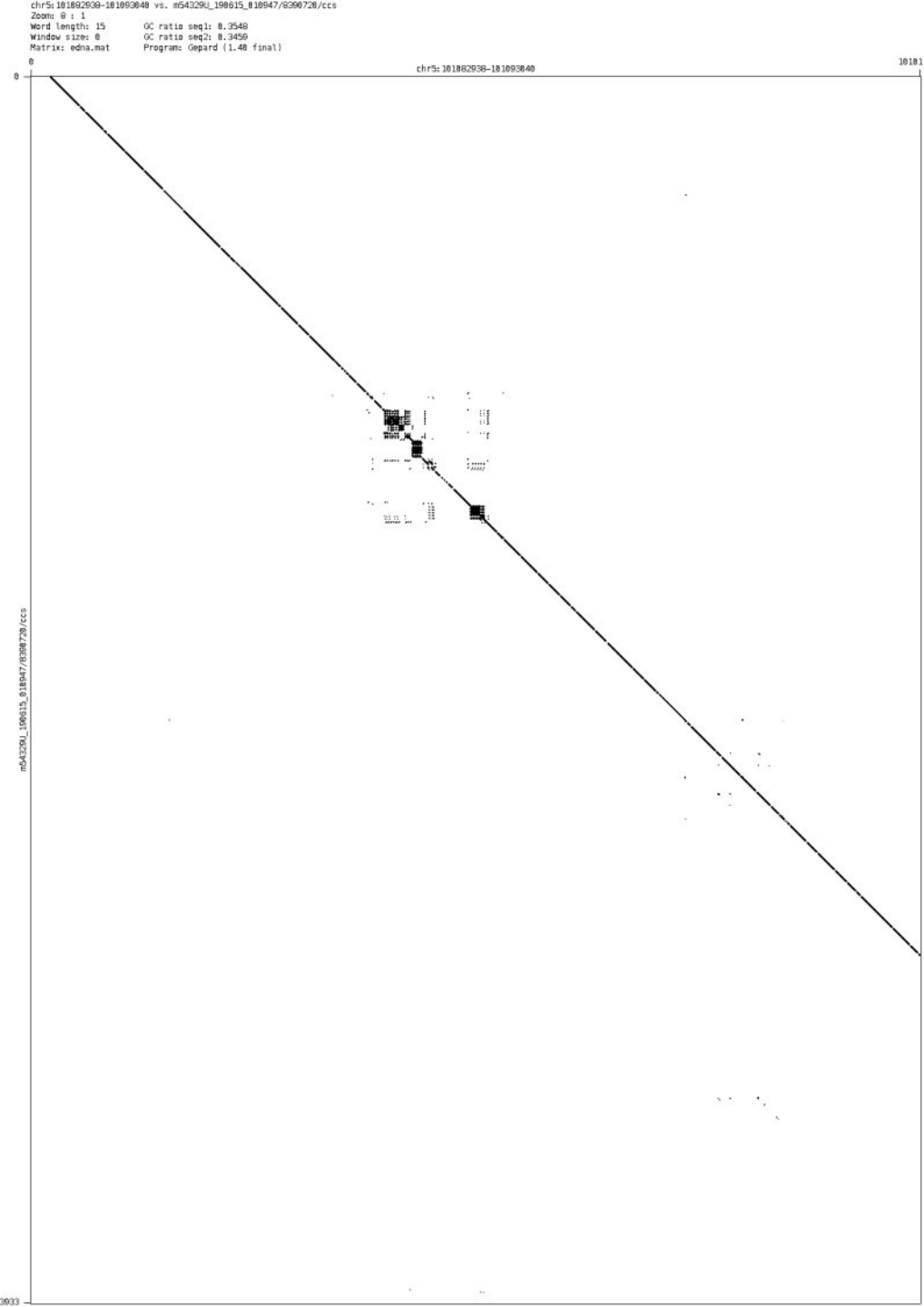
➤ chr5\_67326226\_67328703



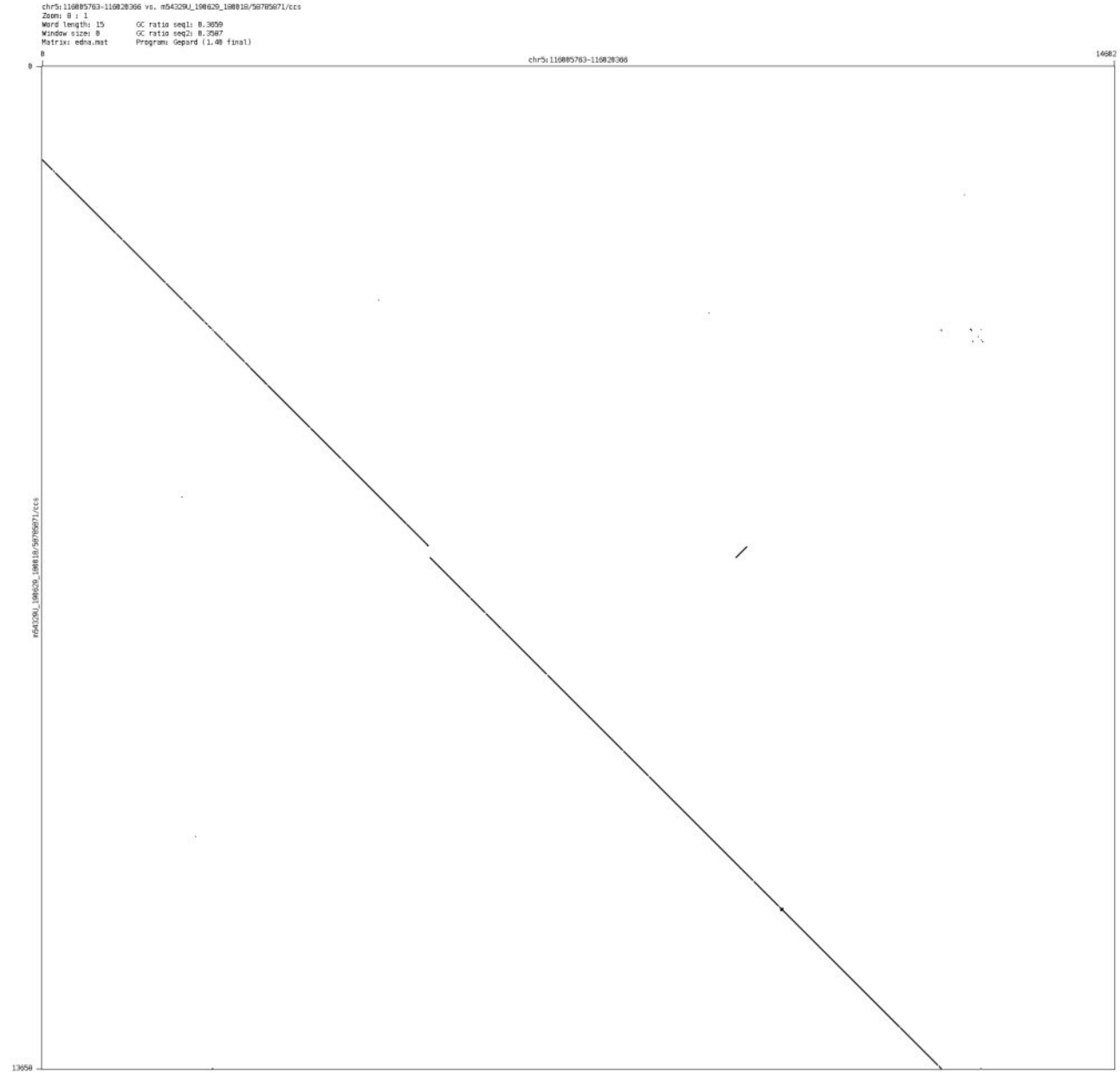
➤ chr5\_80692983\_80693579



➤ chr5\_101087938\_101088040

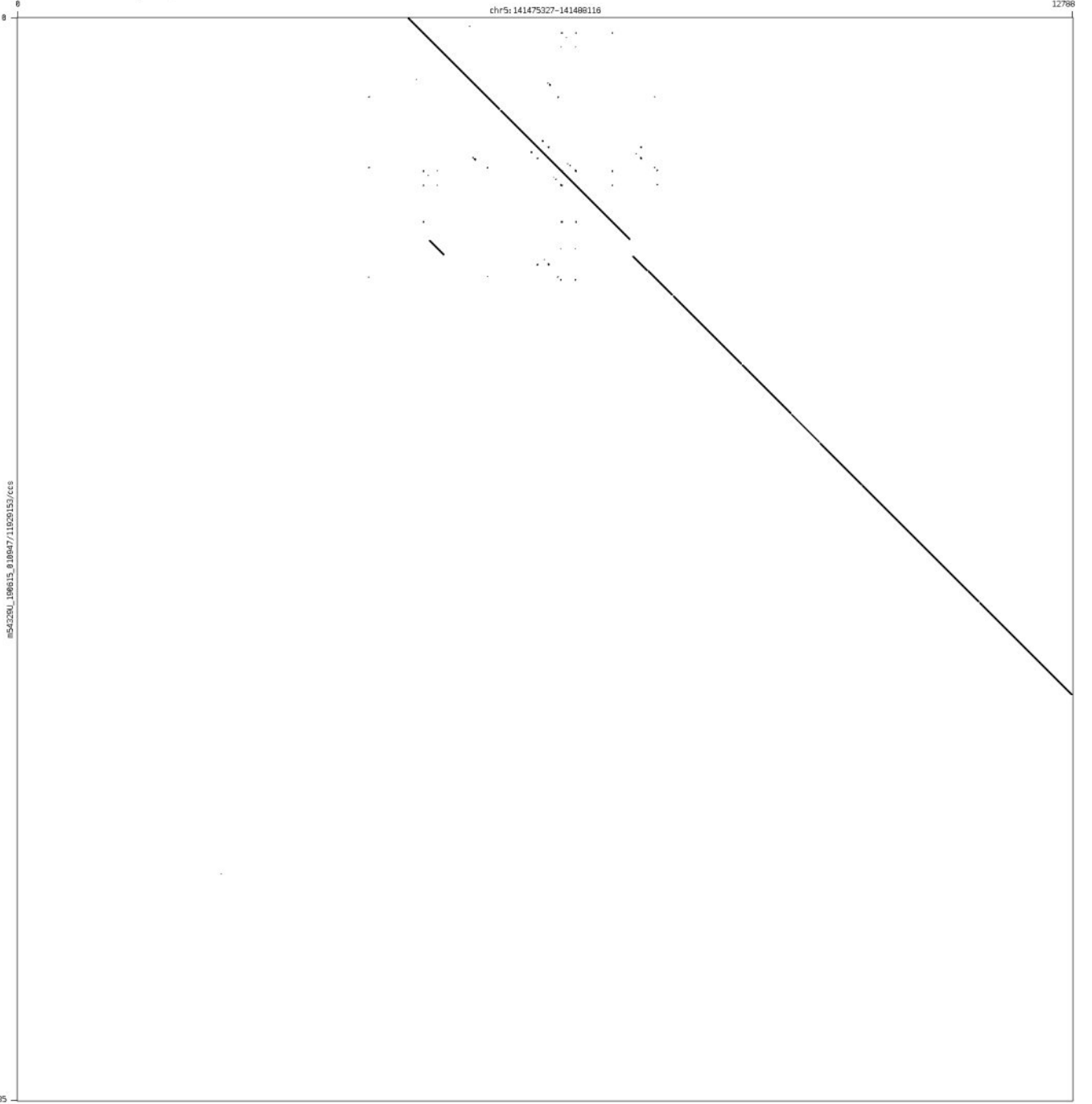


➤ chr5\_116010763\_116015366

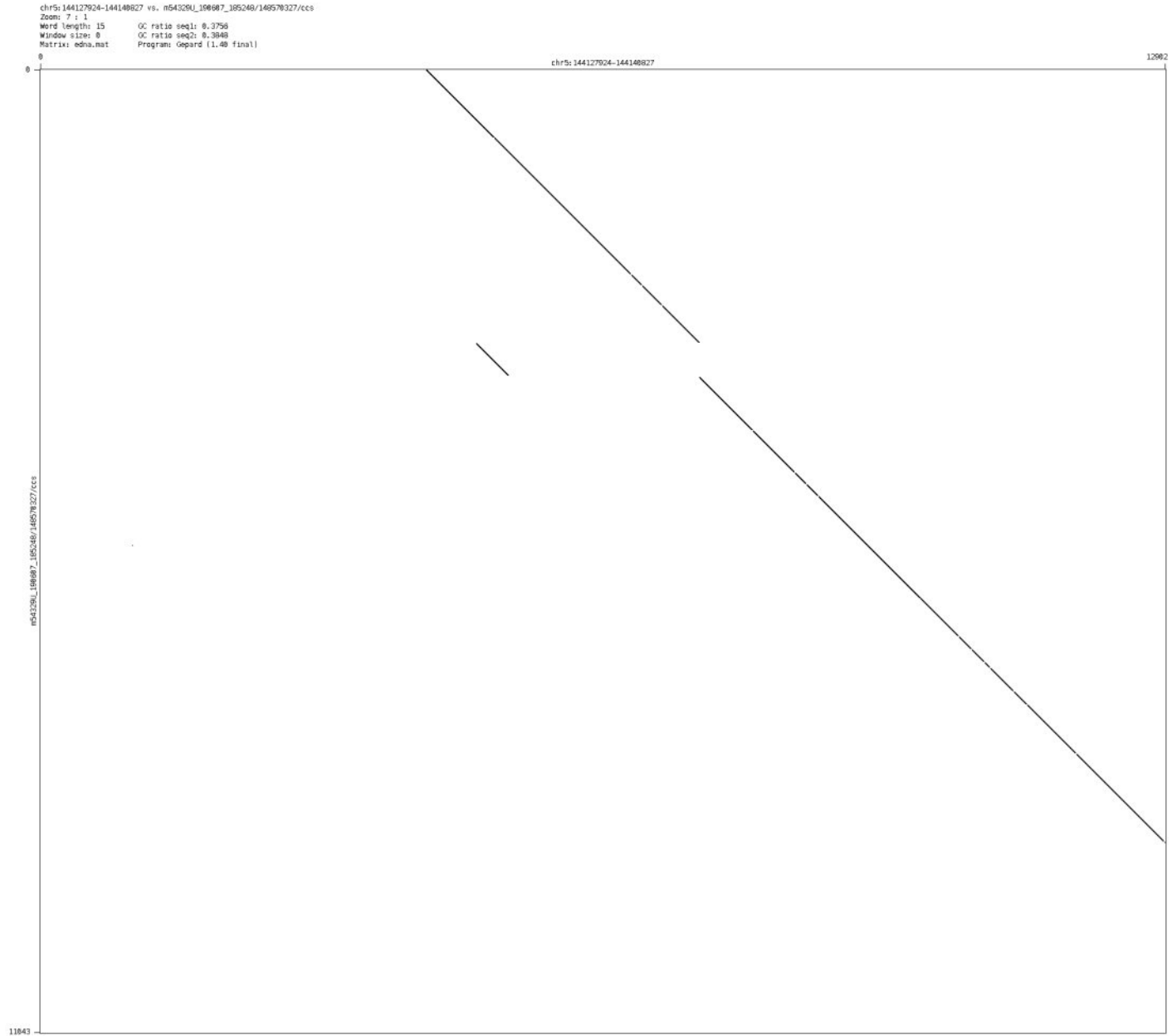


➤ chr5\_141480327\_141483116

chr5:141475327-141486116 vs. m54329U\_196615\_010947/11929153/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.4838  
Window size: 0 GC ratio seq2: 0.5122  
Matrix: edna.mat Program: Gepard (1.40 final)

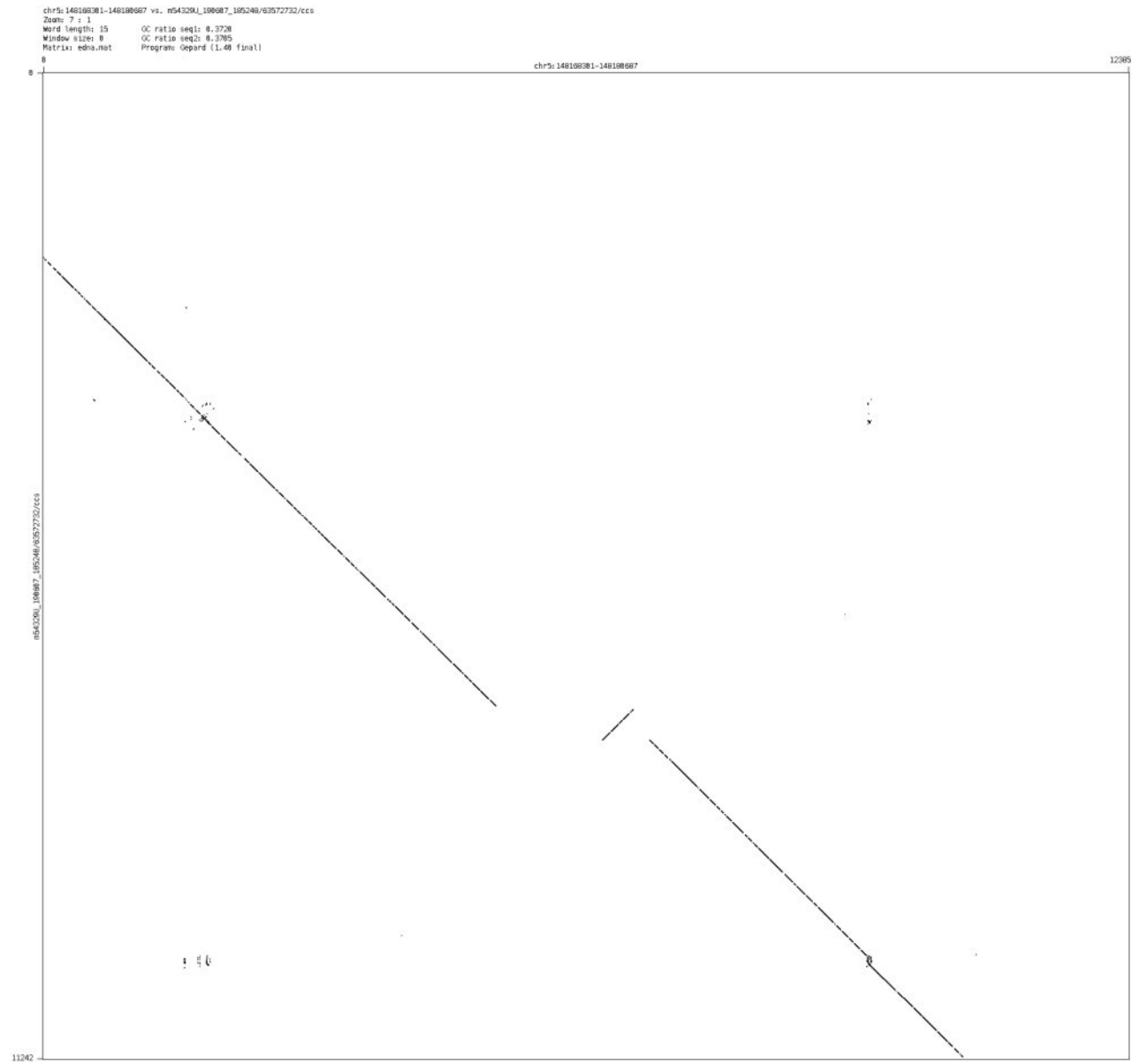


➤ chr5\_144132924\_144135827

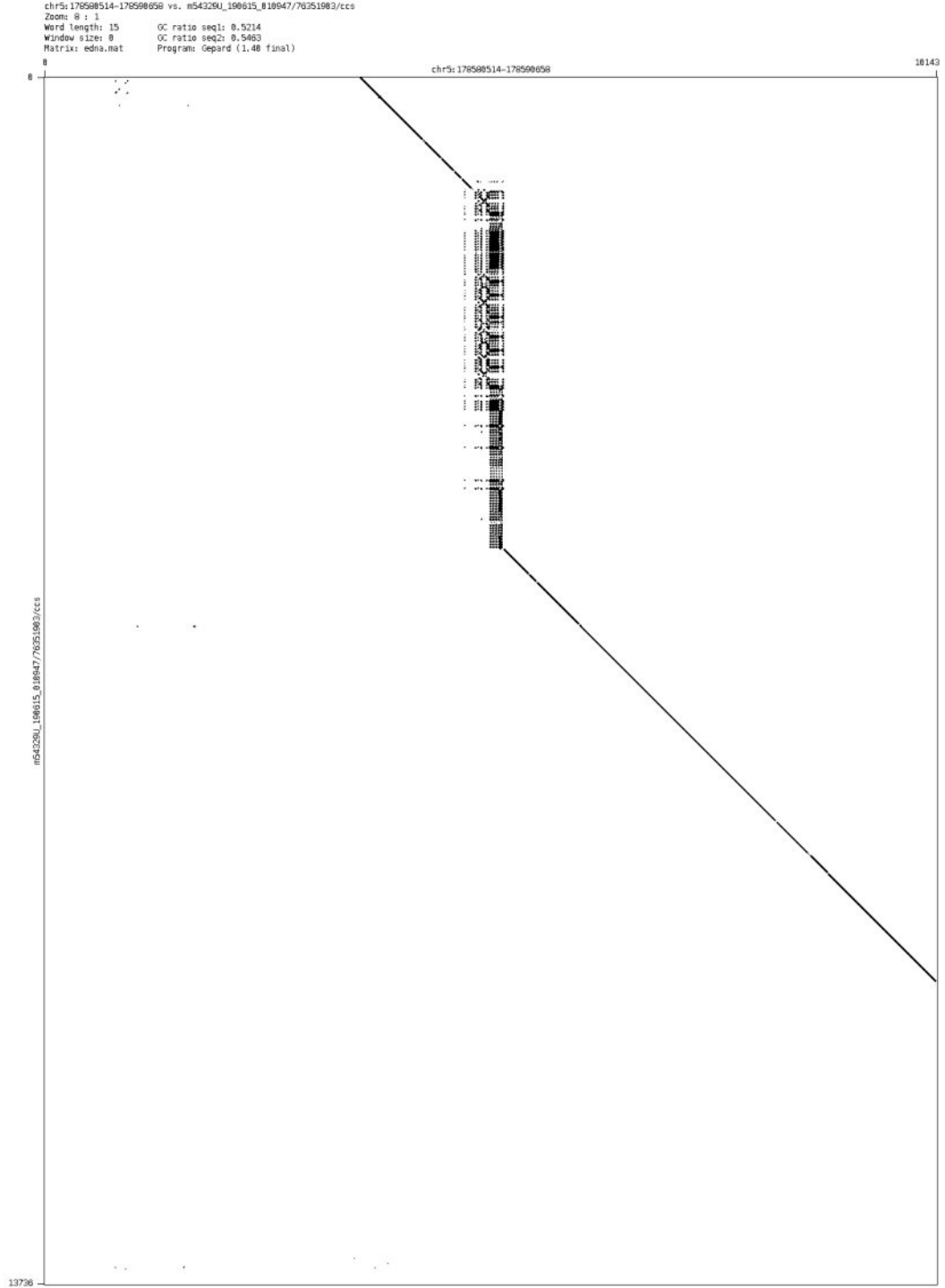




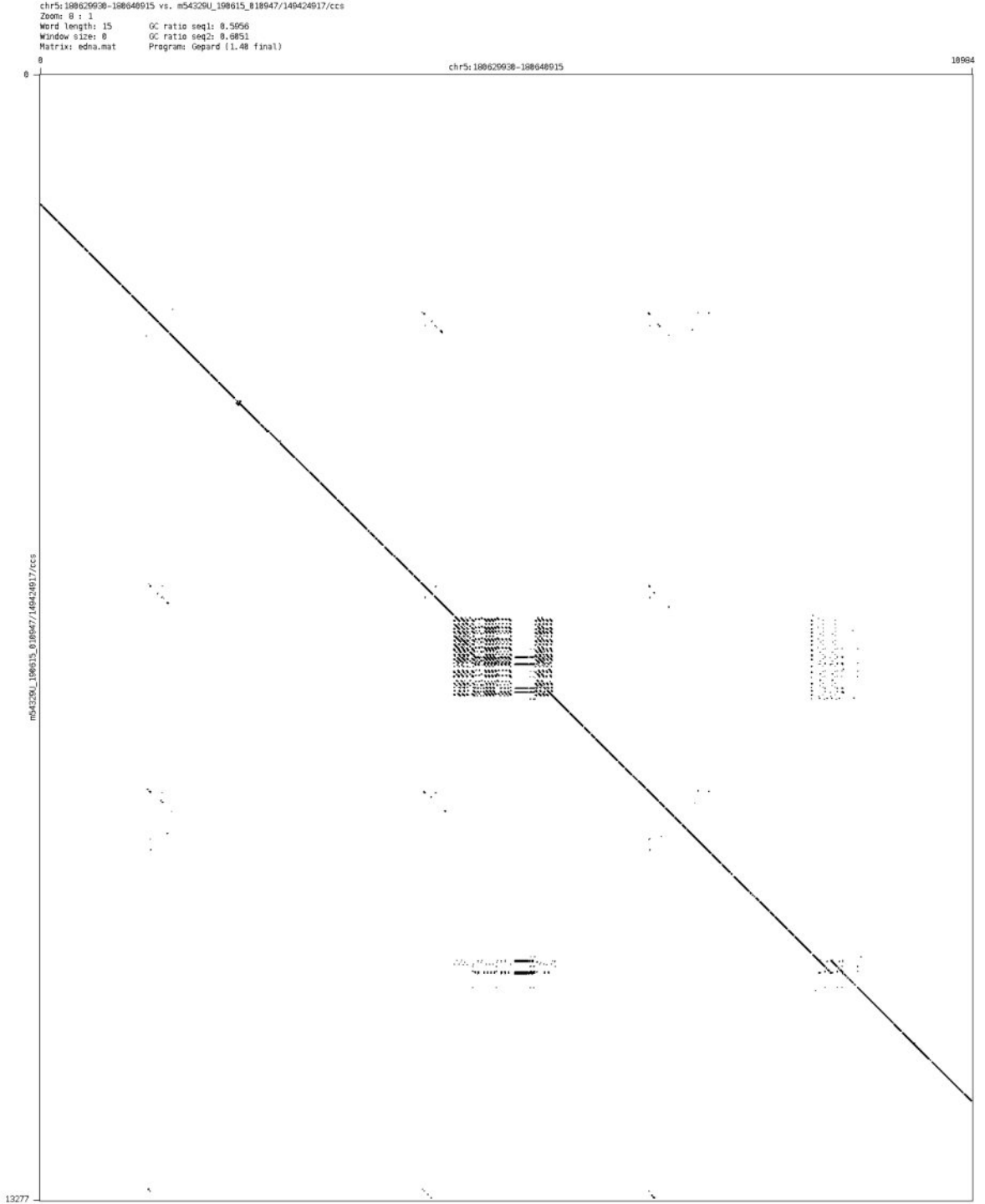
➤ chr5\_148173301\_148175687



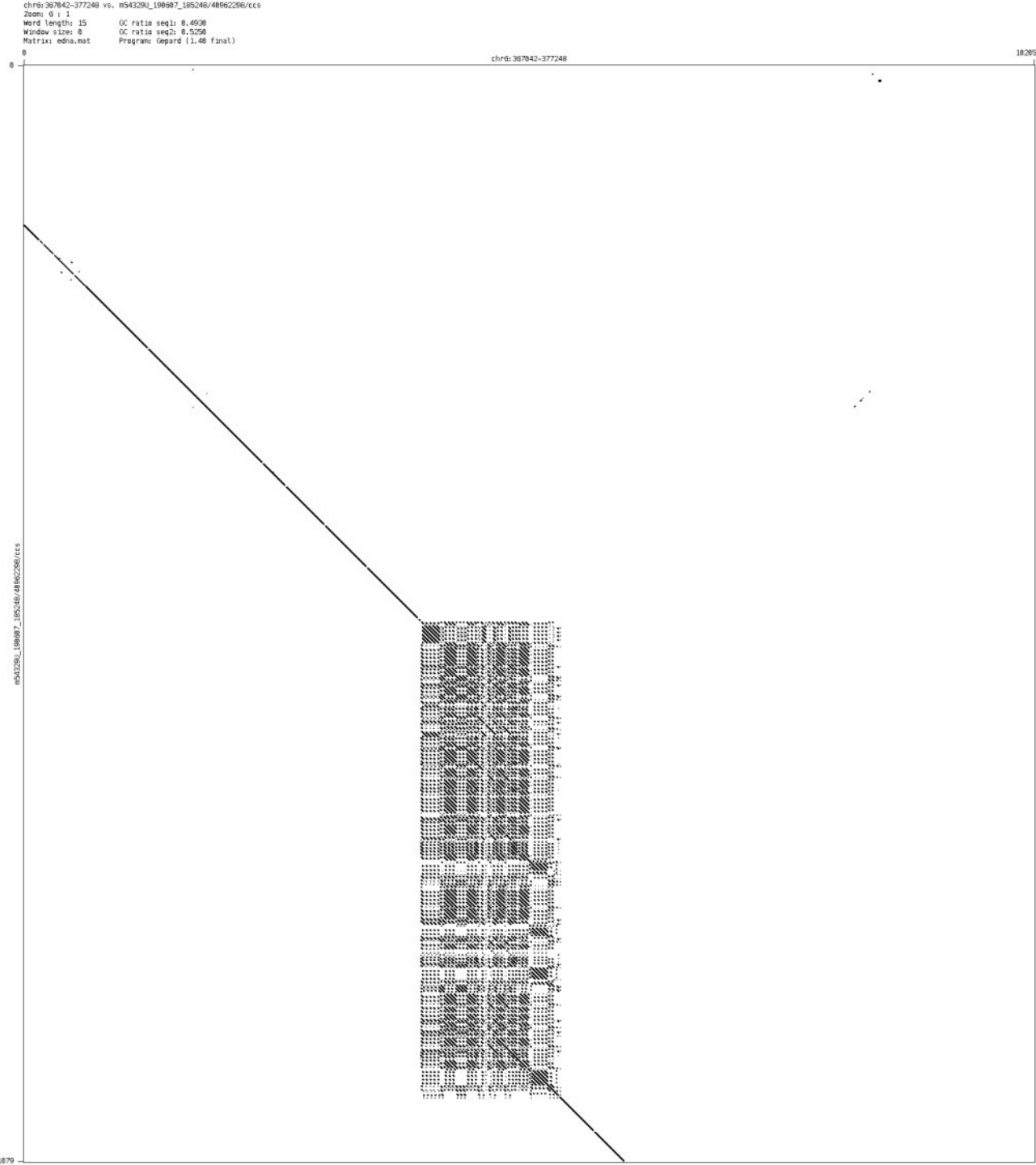
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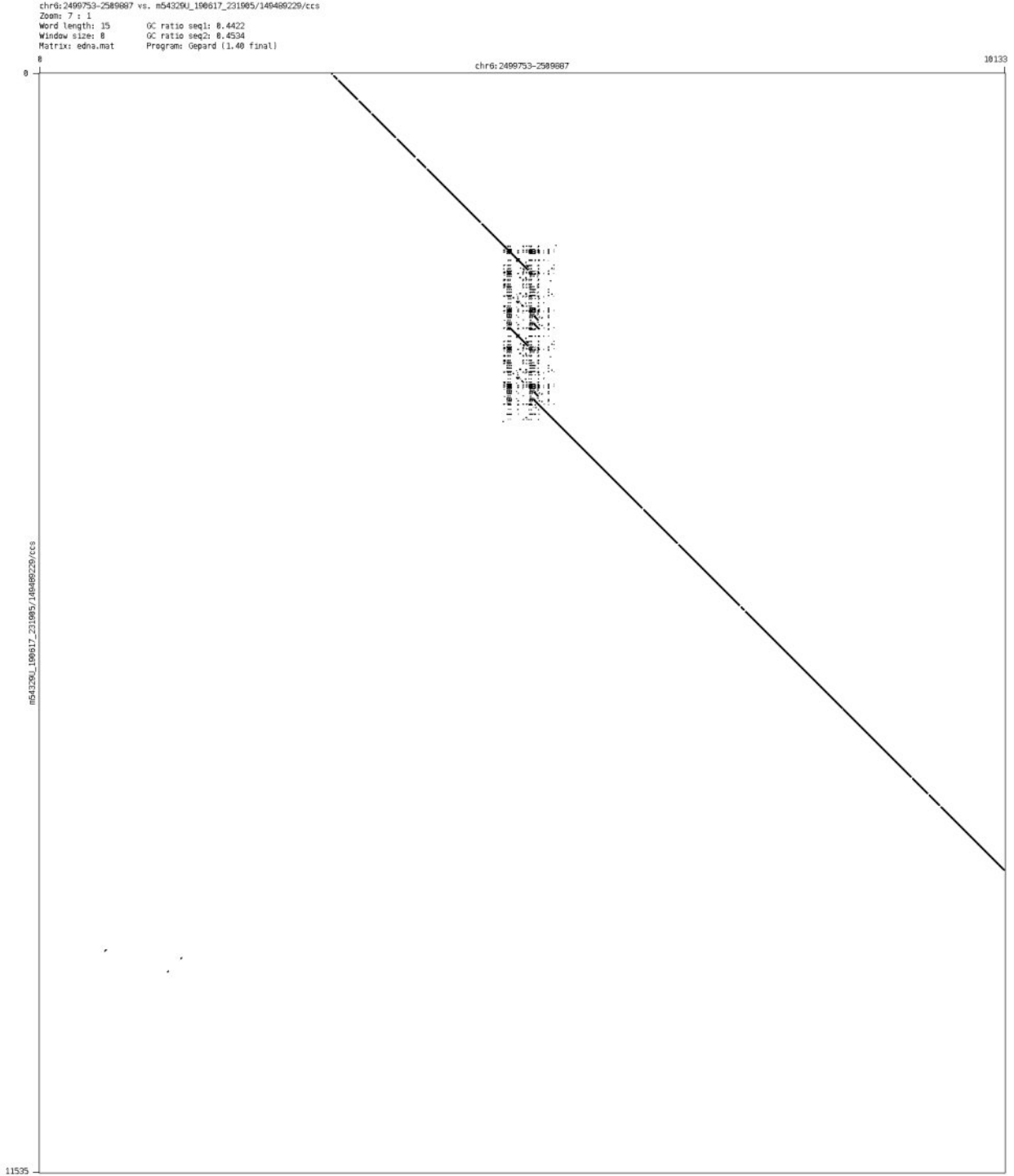
➤ chr5\_180634930\_180635915



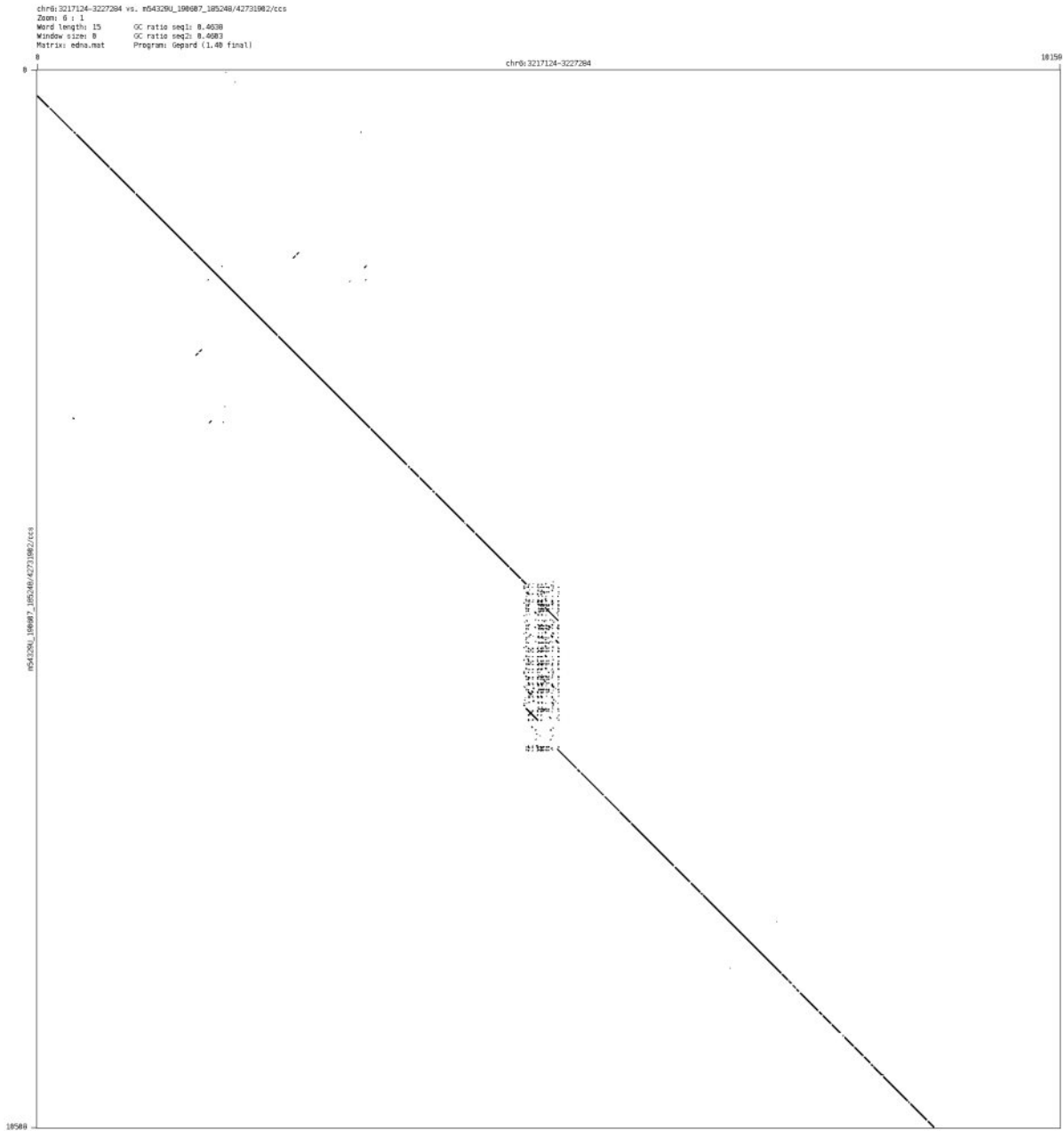
➤ chr6\_372042\_372248



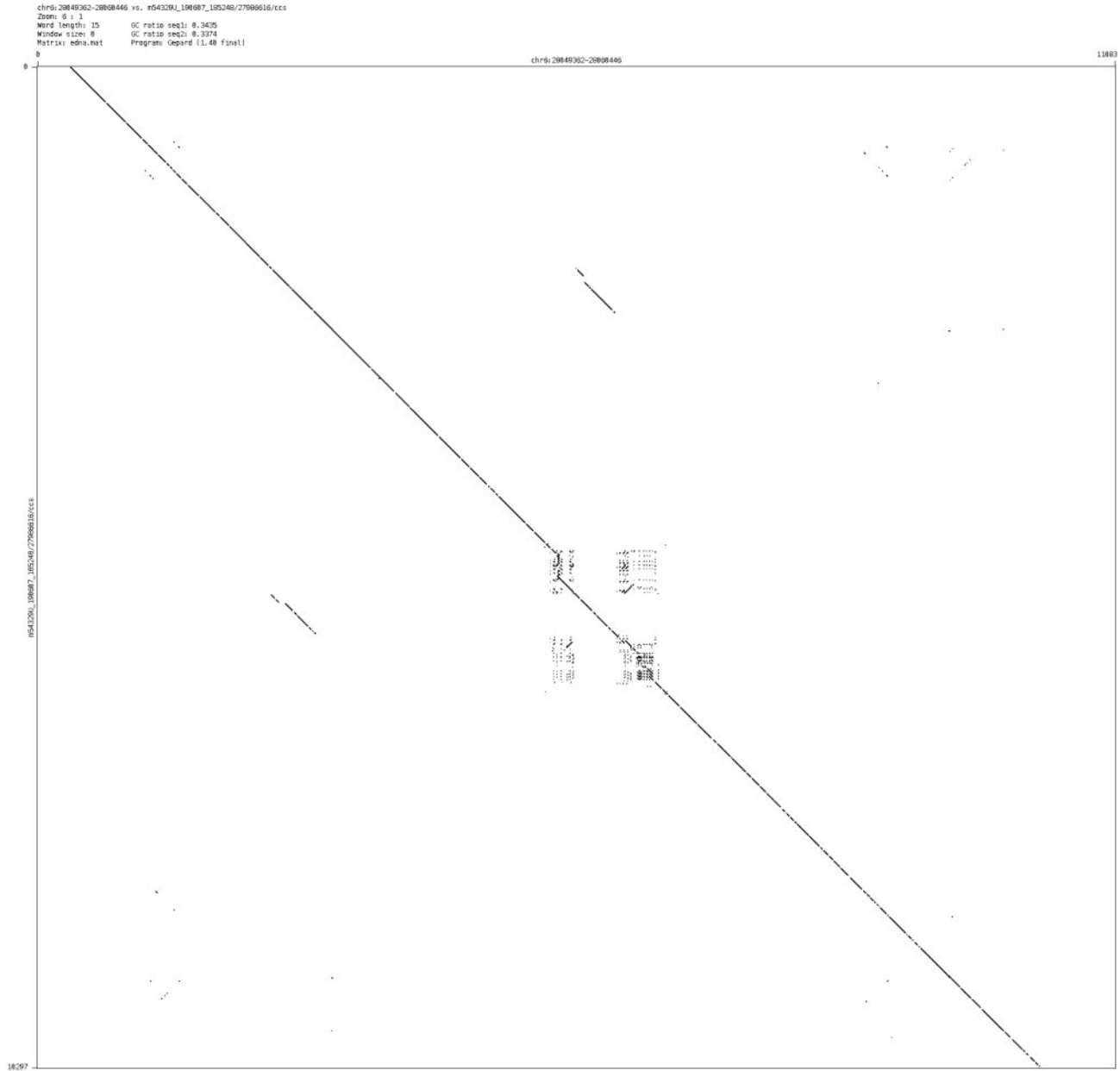
➤ chr6\_2504753\_2504887



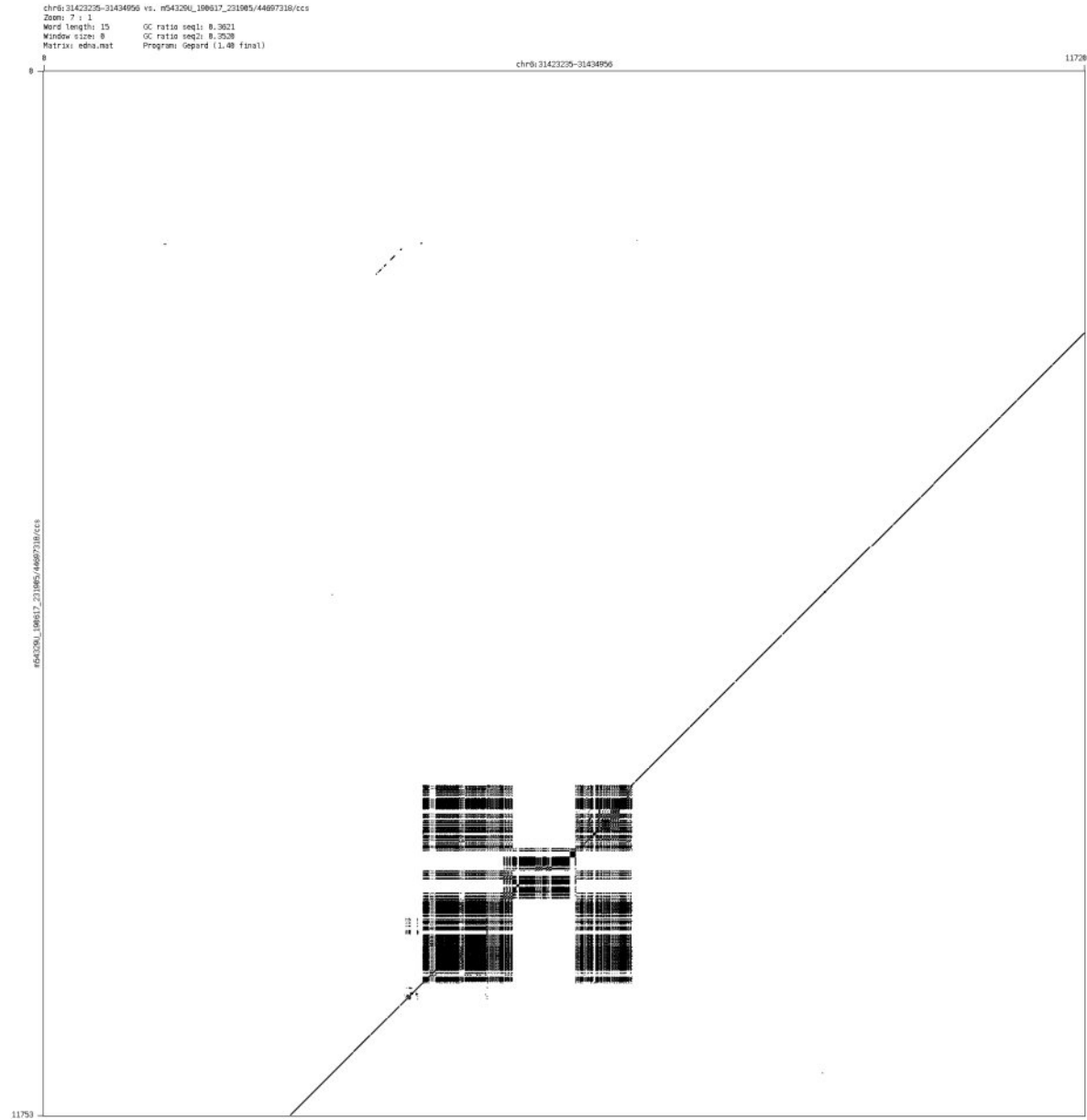
➤ chr6\_3222124\_3222284



➤ chr6\_28054362\_28055446

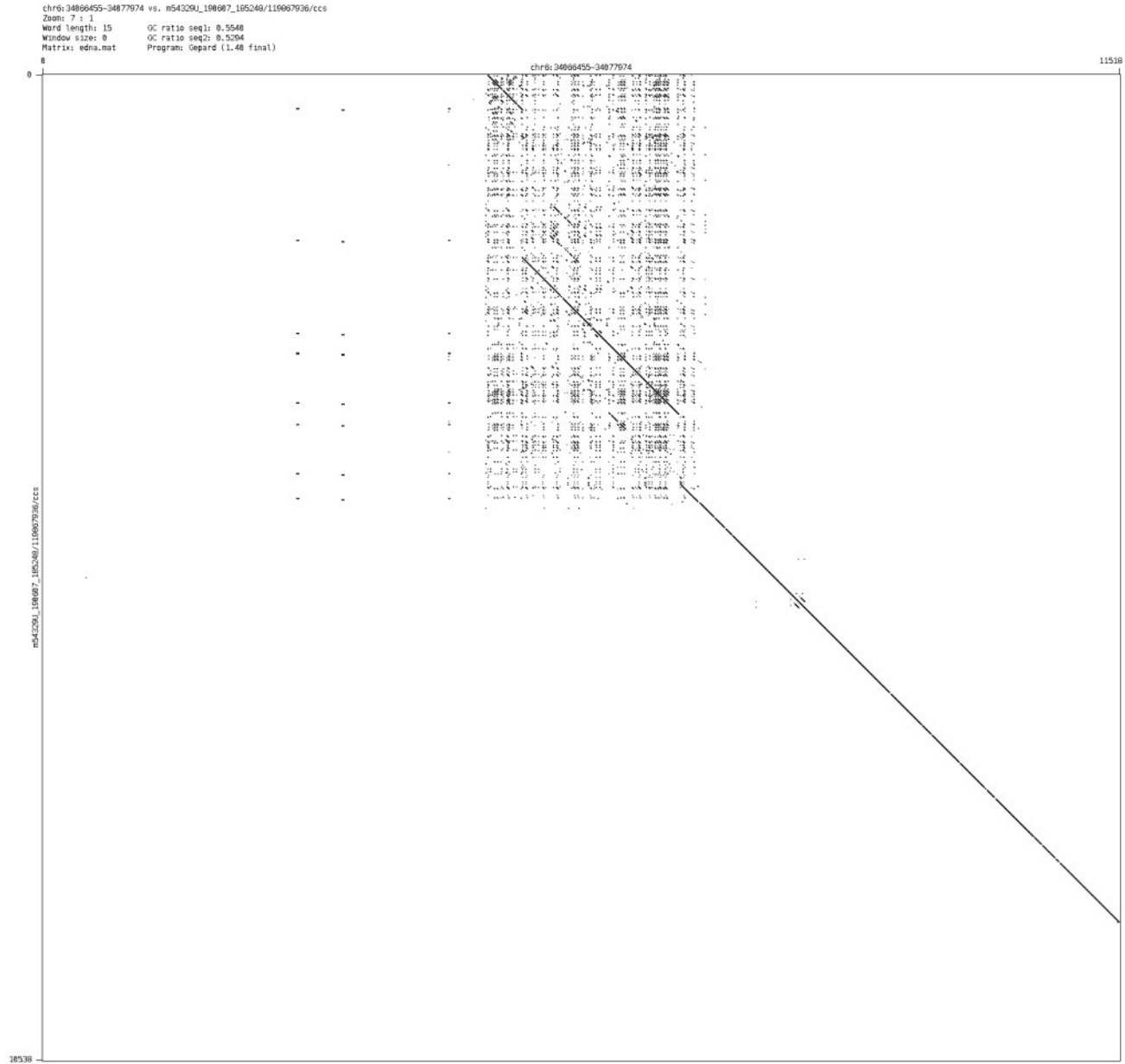


➤ chr6\_31428235\_31429956

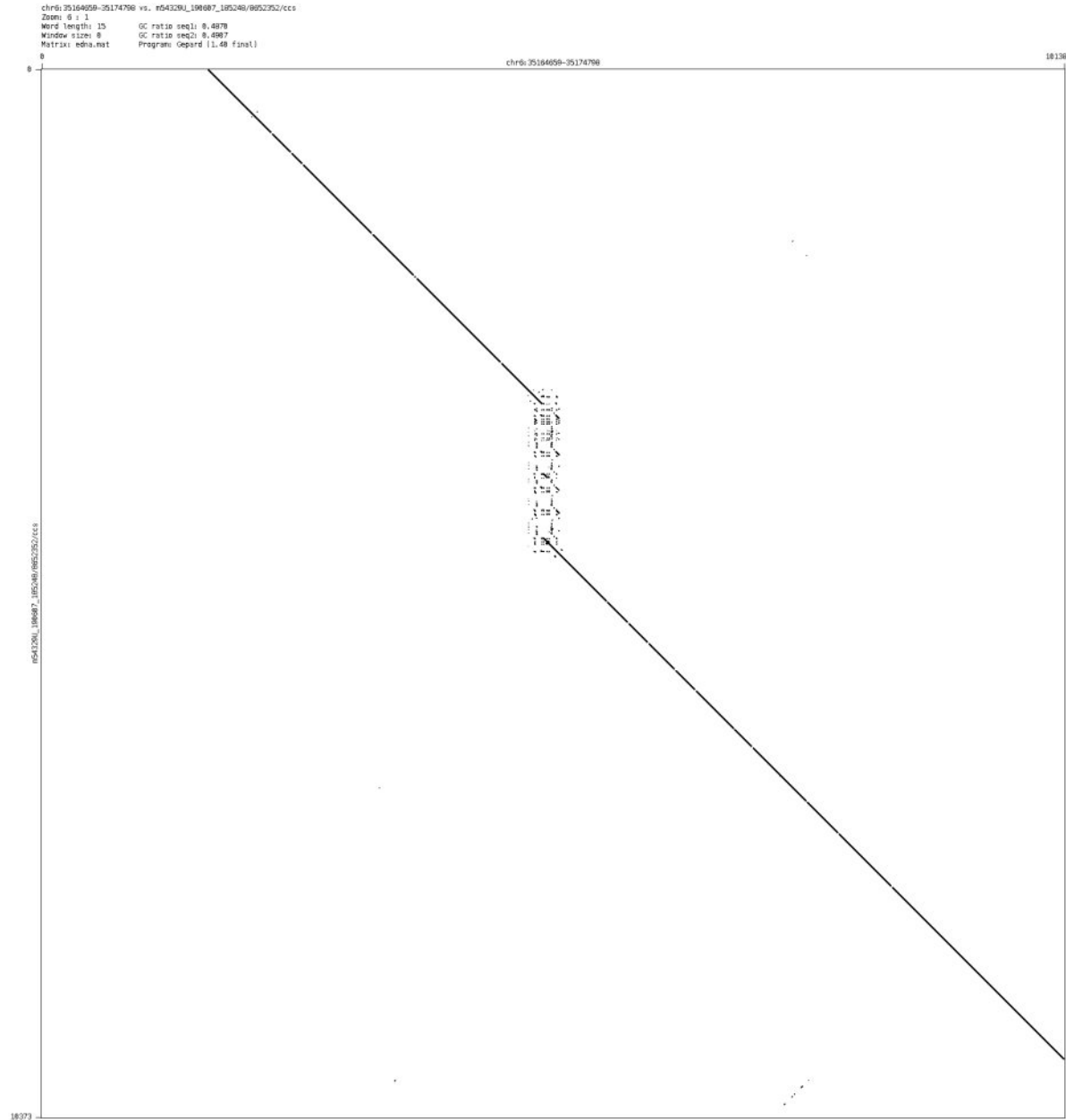




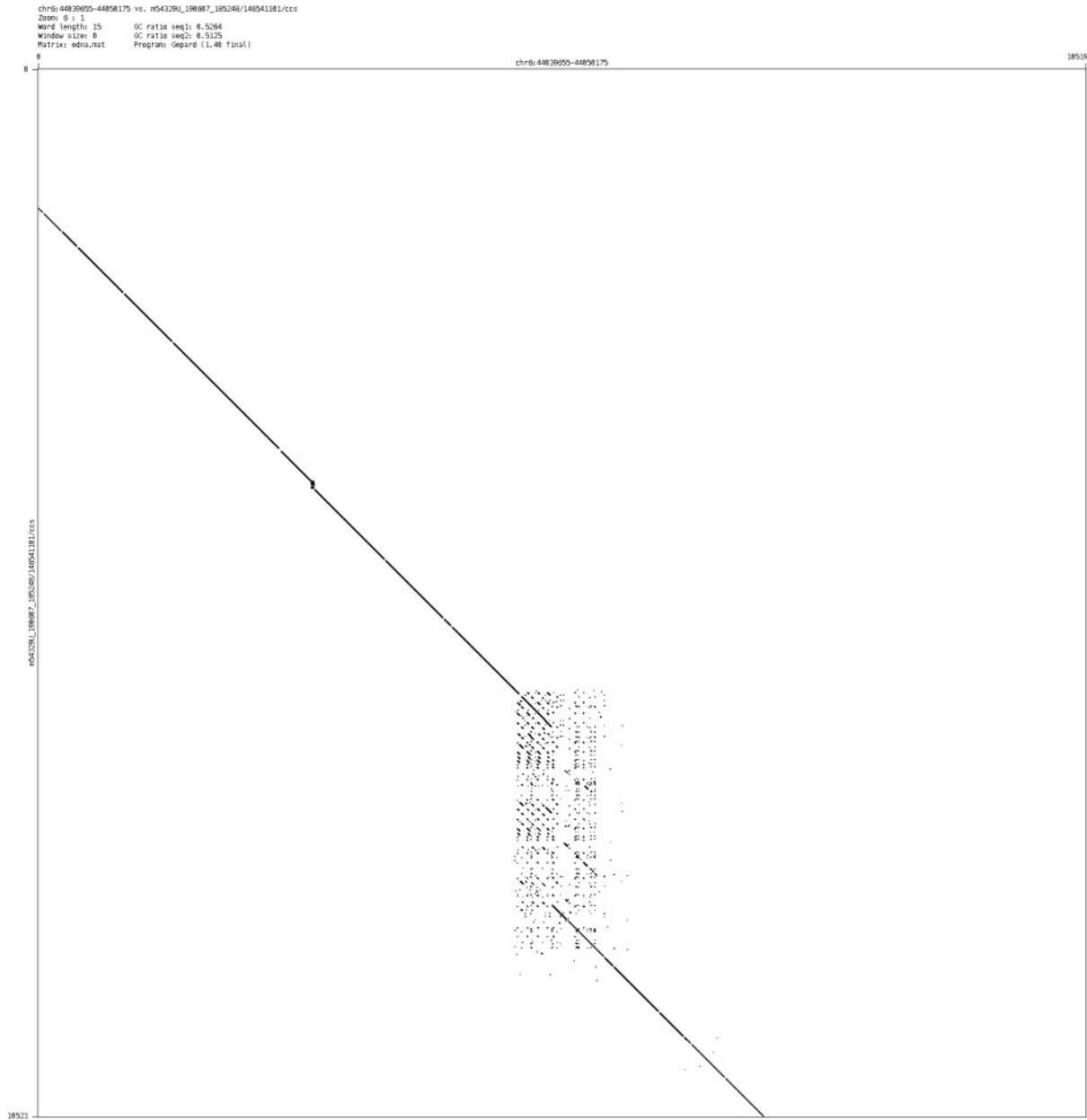
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➤ chr6\_35169659\_35169798



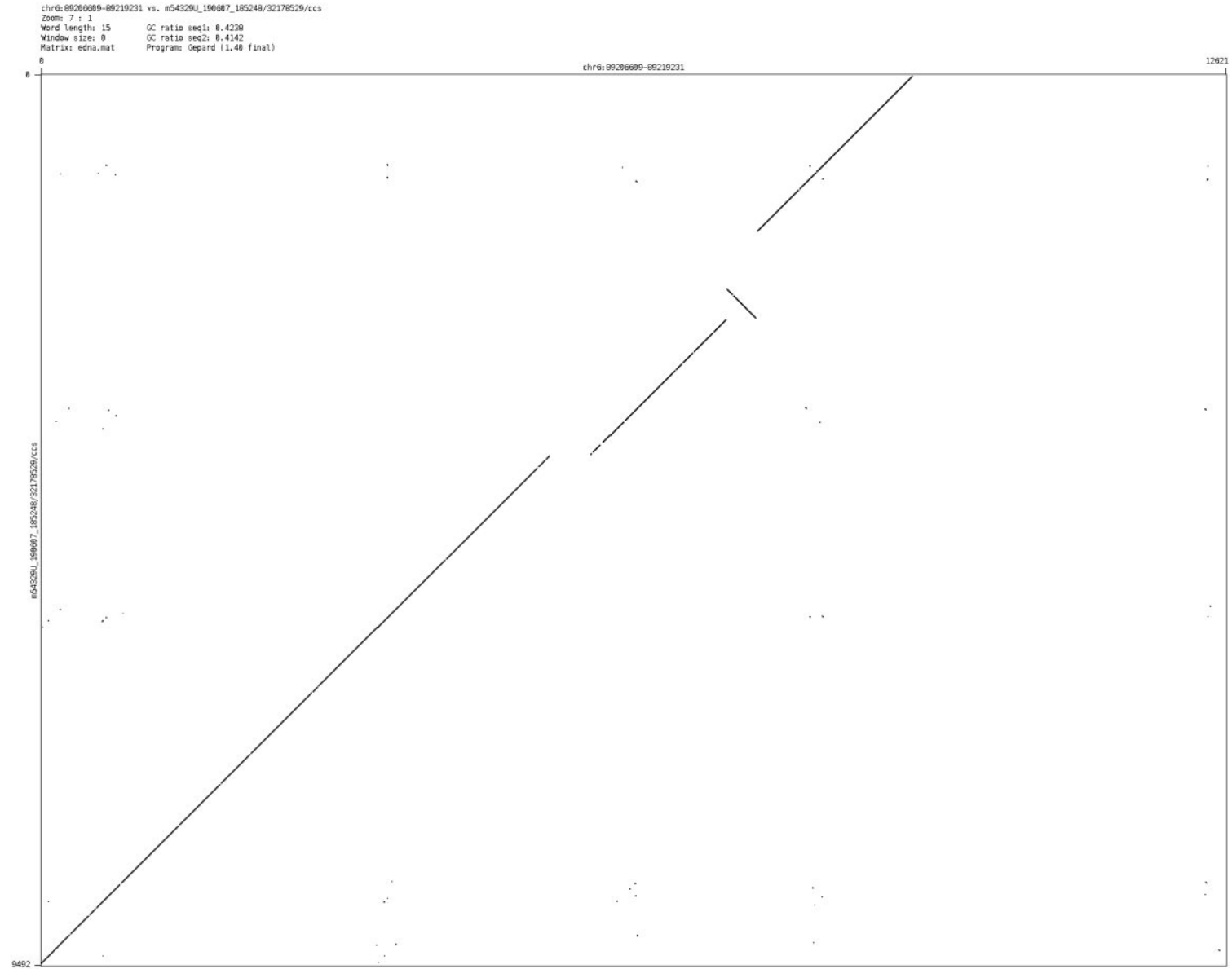
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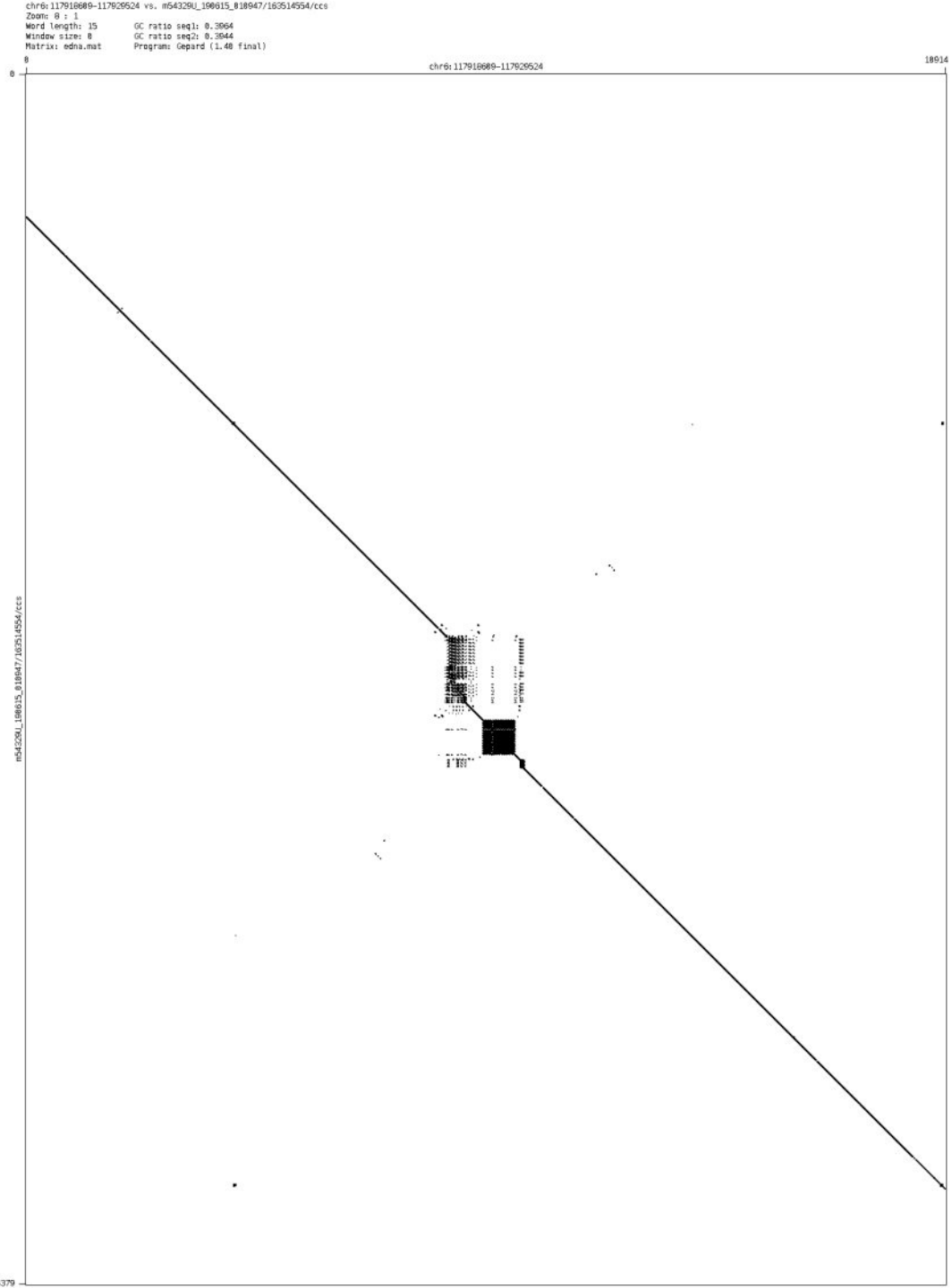
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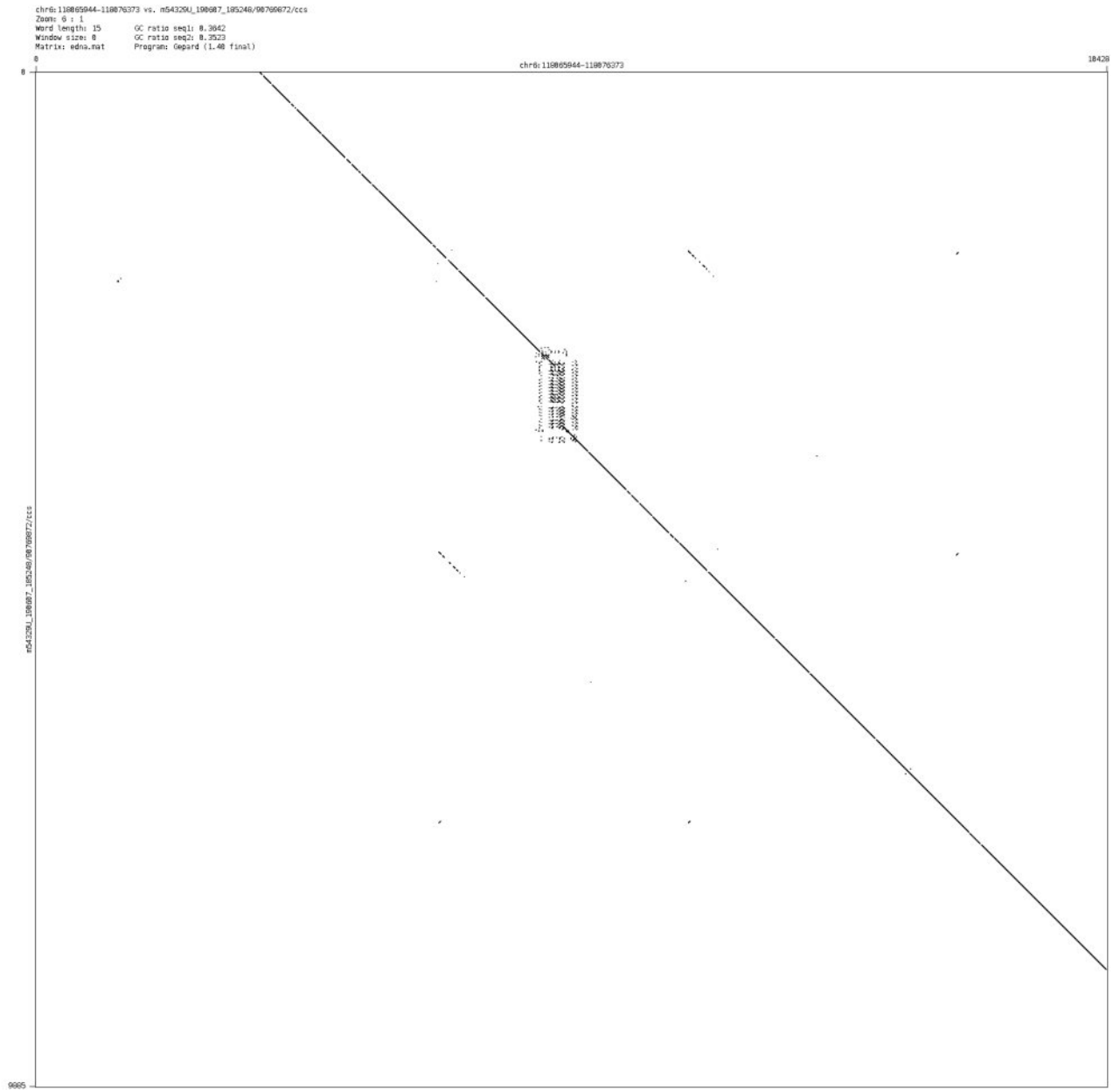
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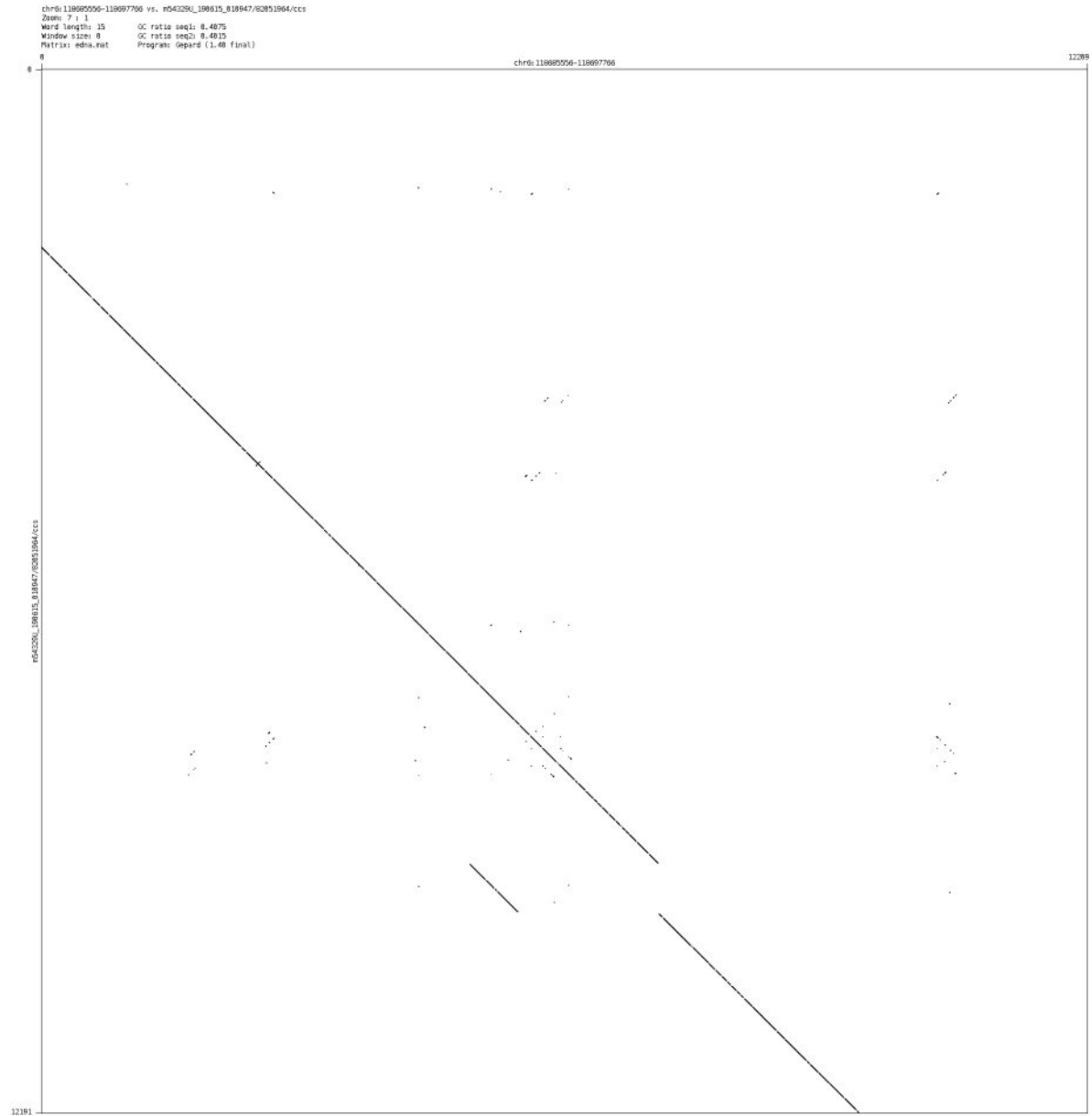
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➤ chr6\_118070944\_118071373

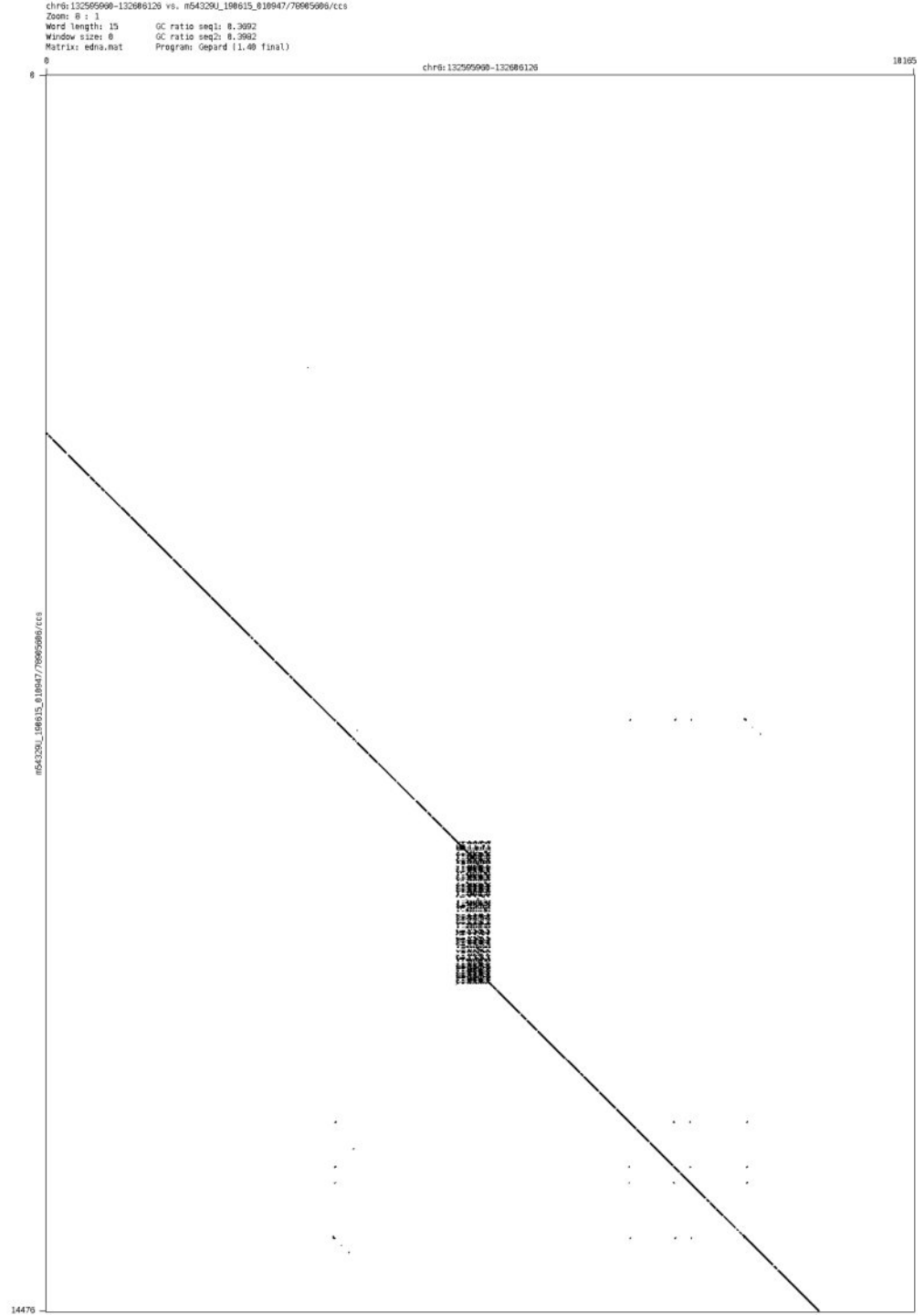


➤ chr6\_118690556\_118692766

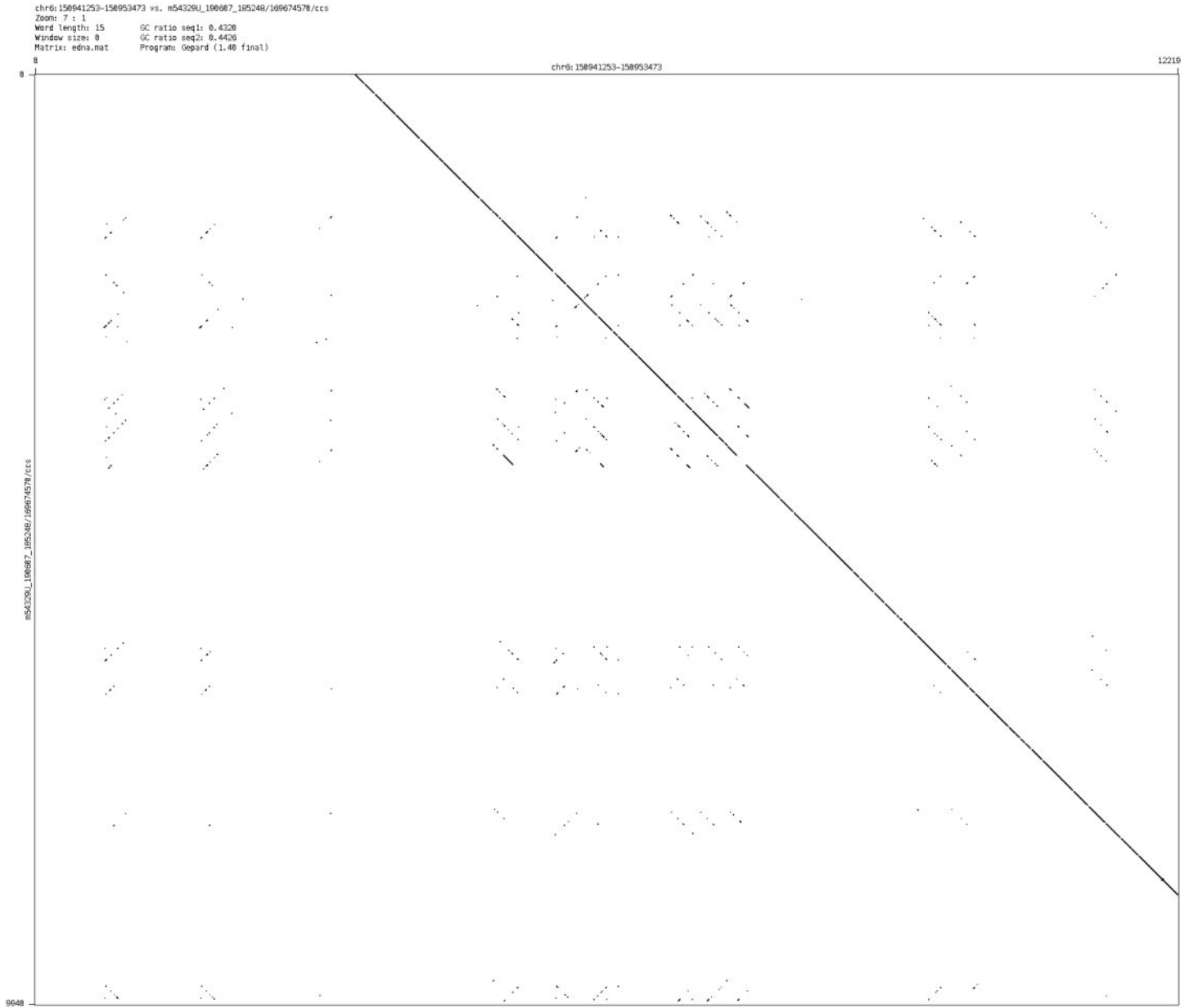




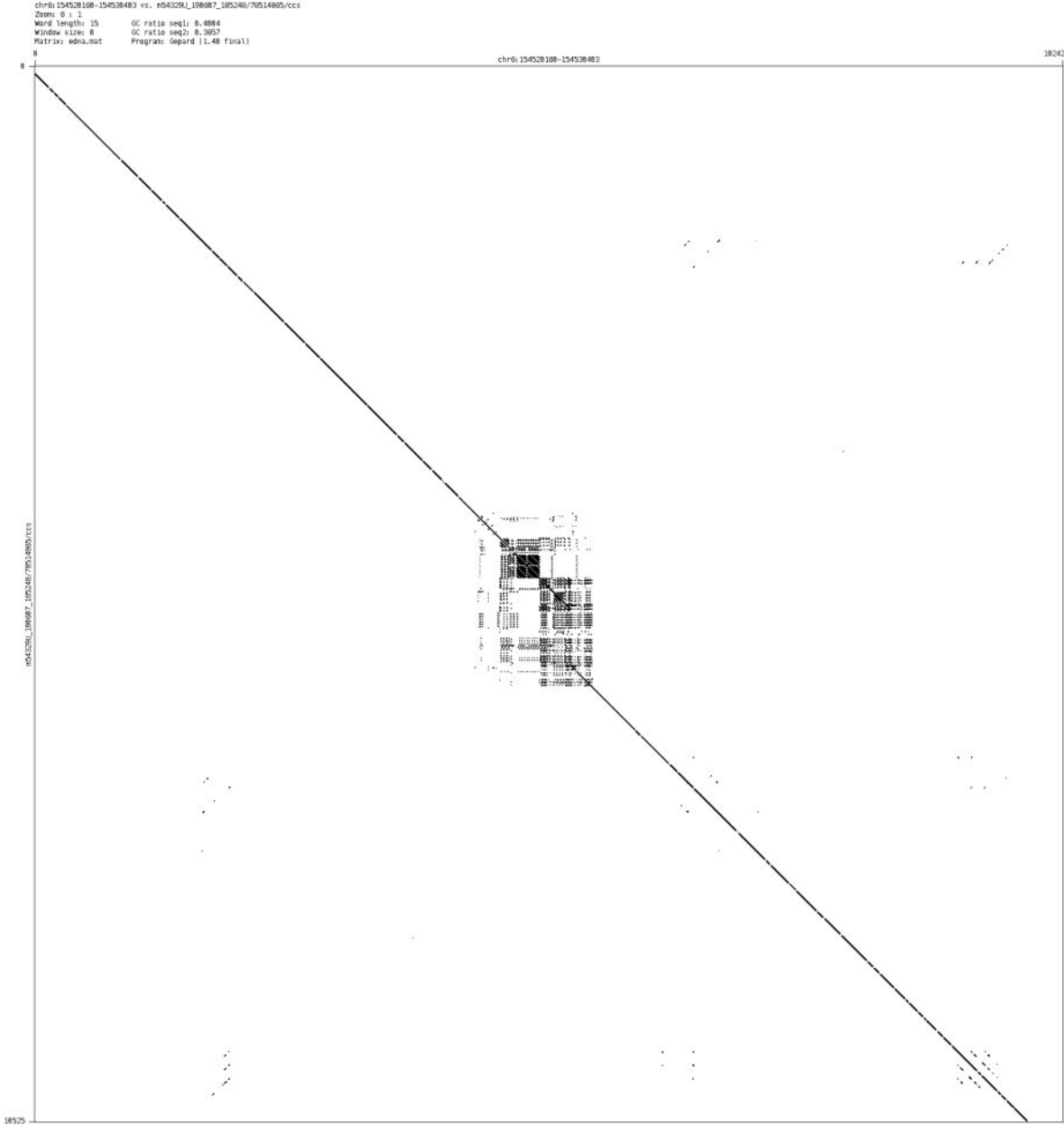
➤ chr6\_132600960\_132601126



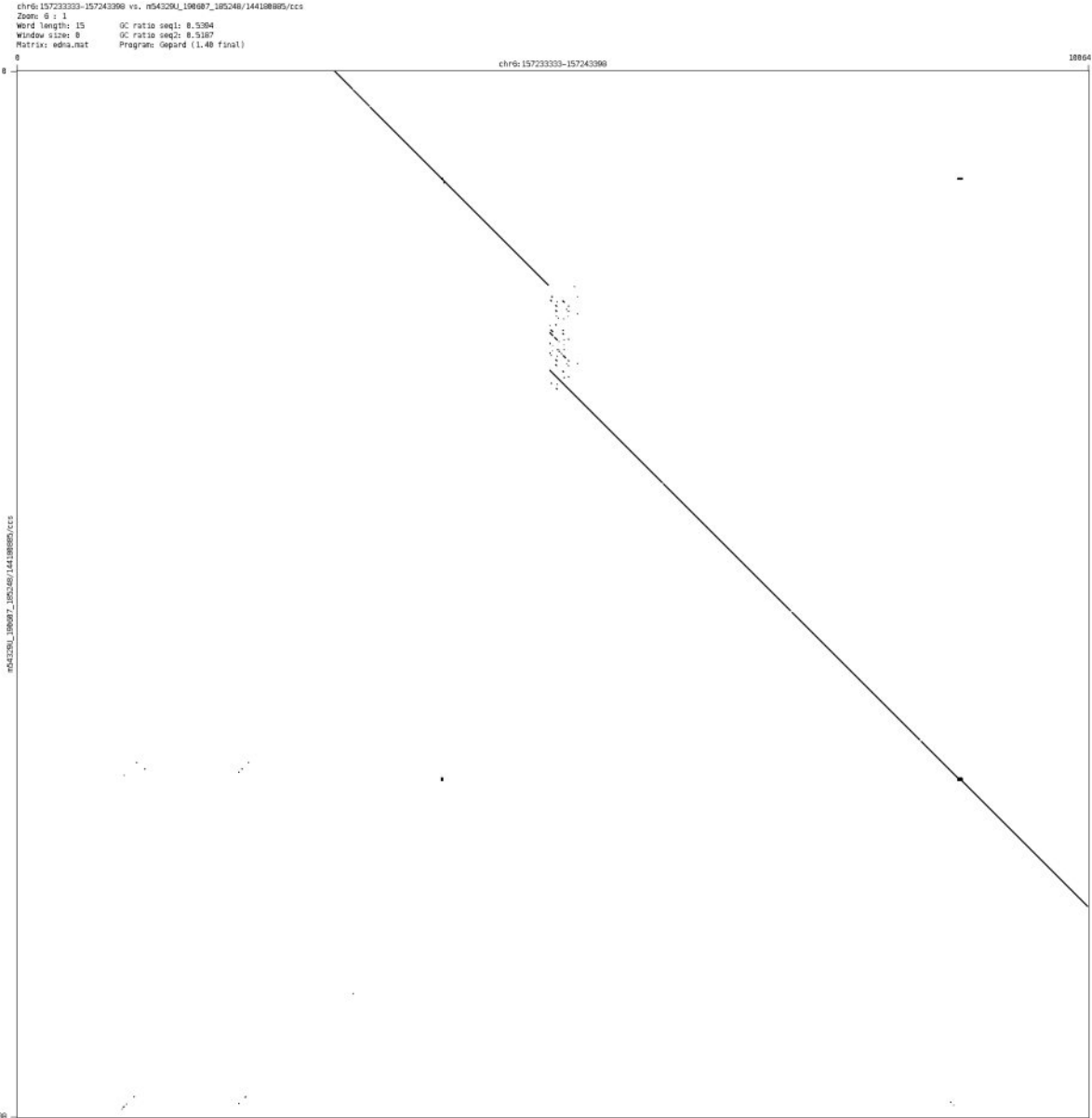
➤ chr6\_150946253\_150948473



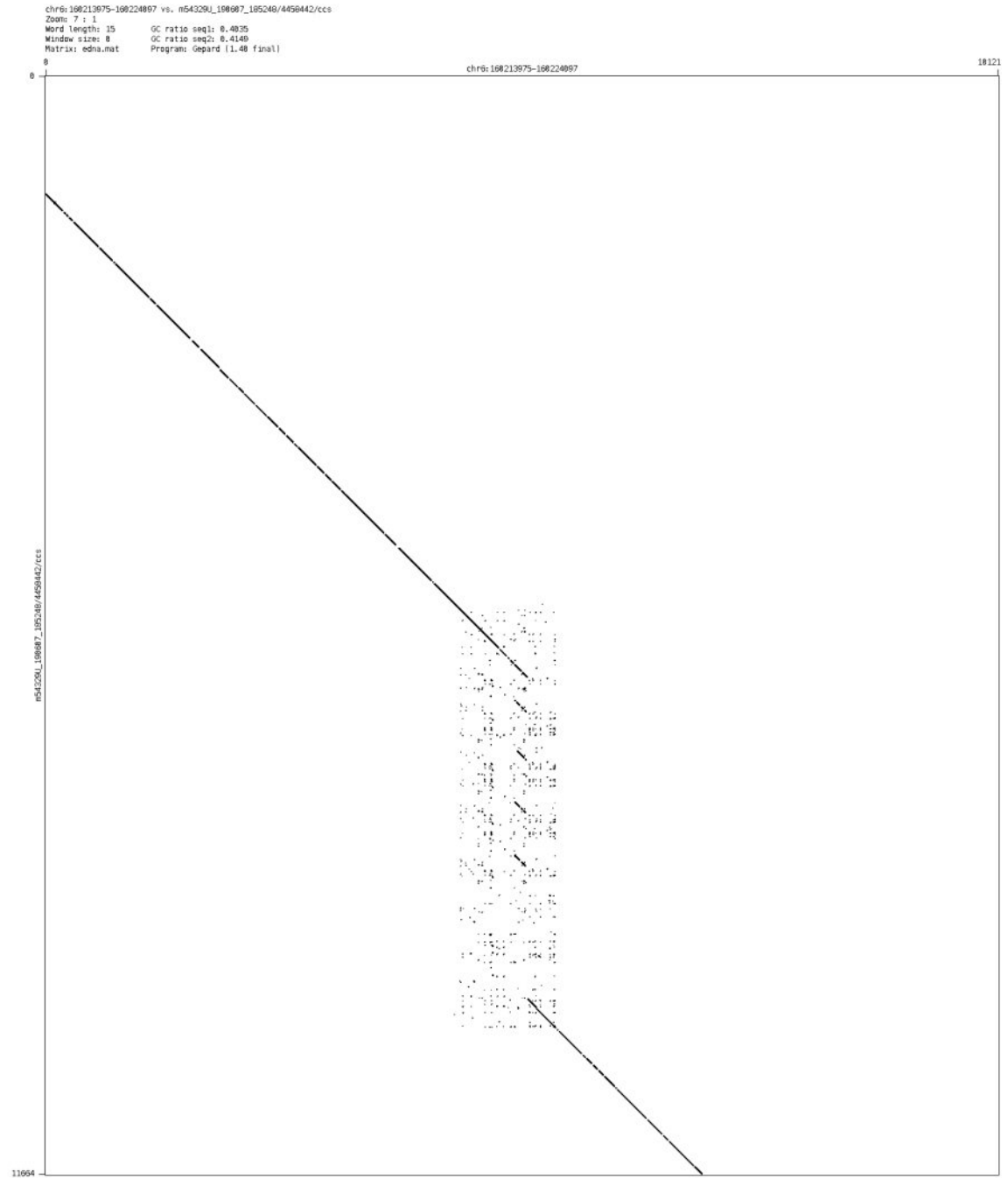
➤ chr6\_154525160\_154525403



➤ chr6\_157238333\_157238398

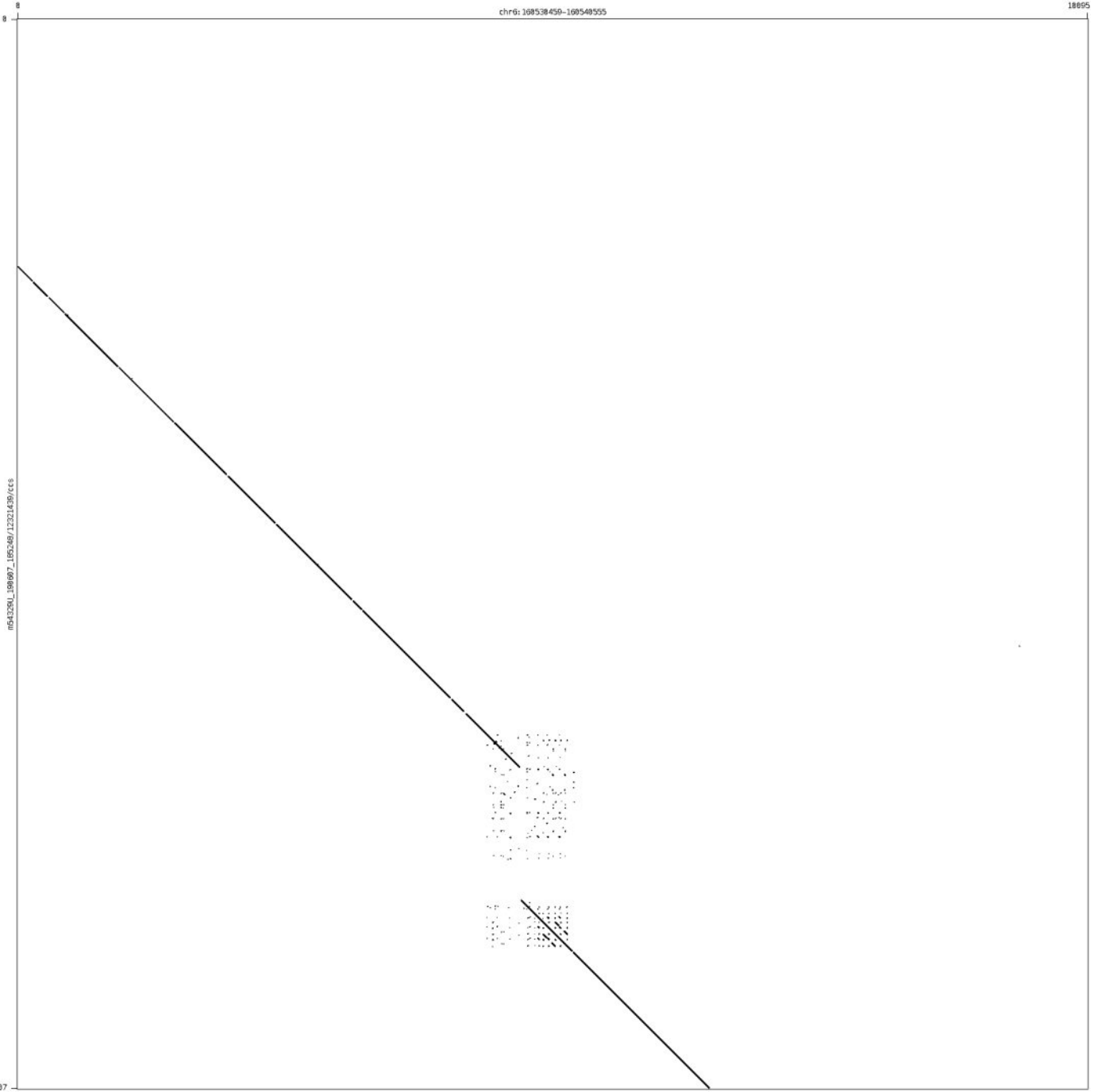


➤ chr6\_160218975\_160219097

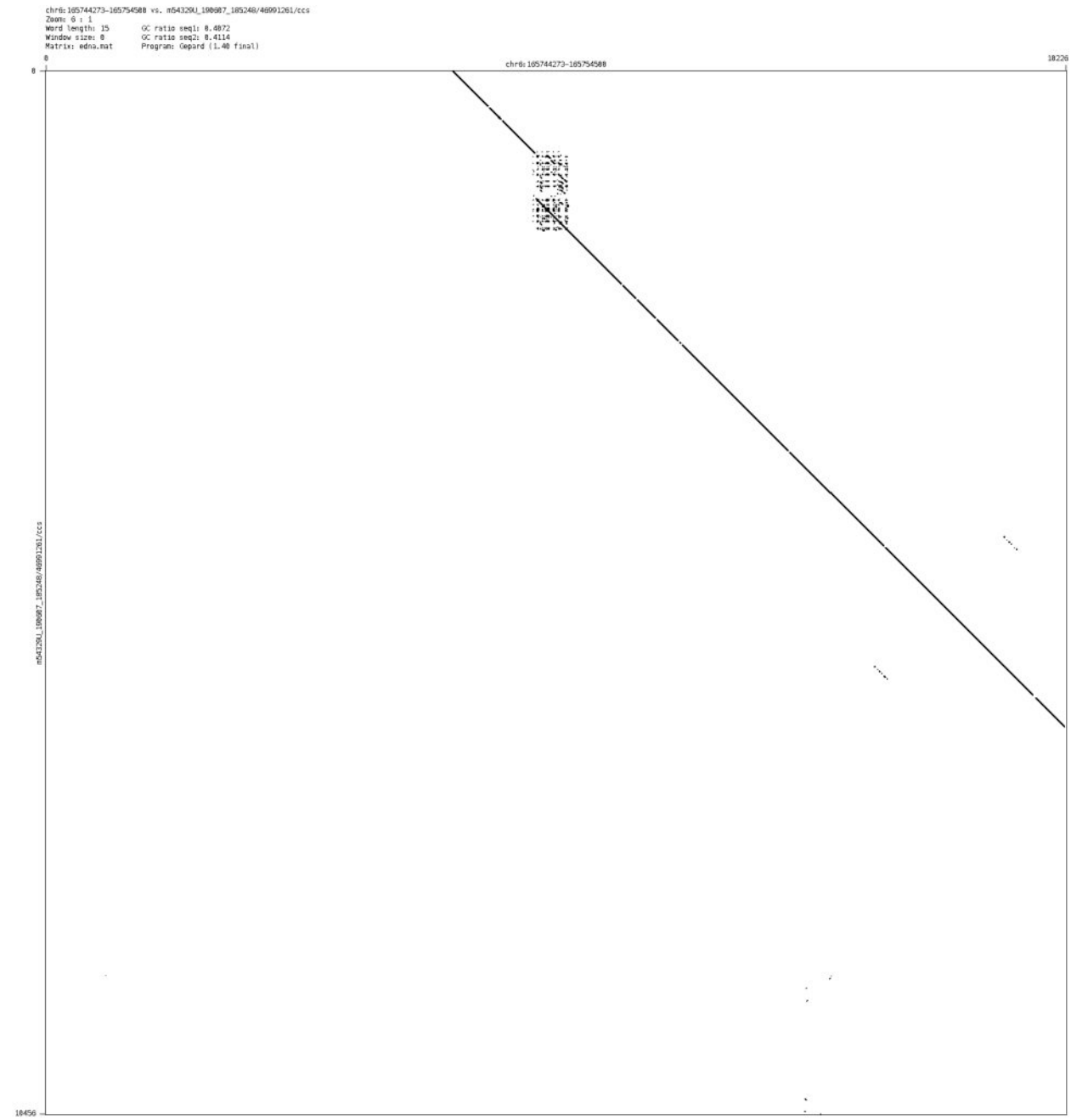


➤ chr6\_160535459\_160535555

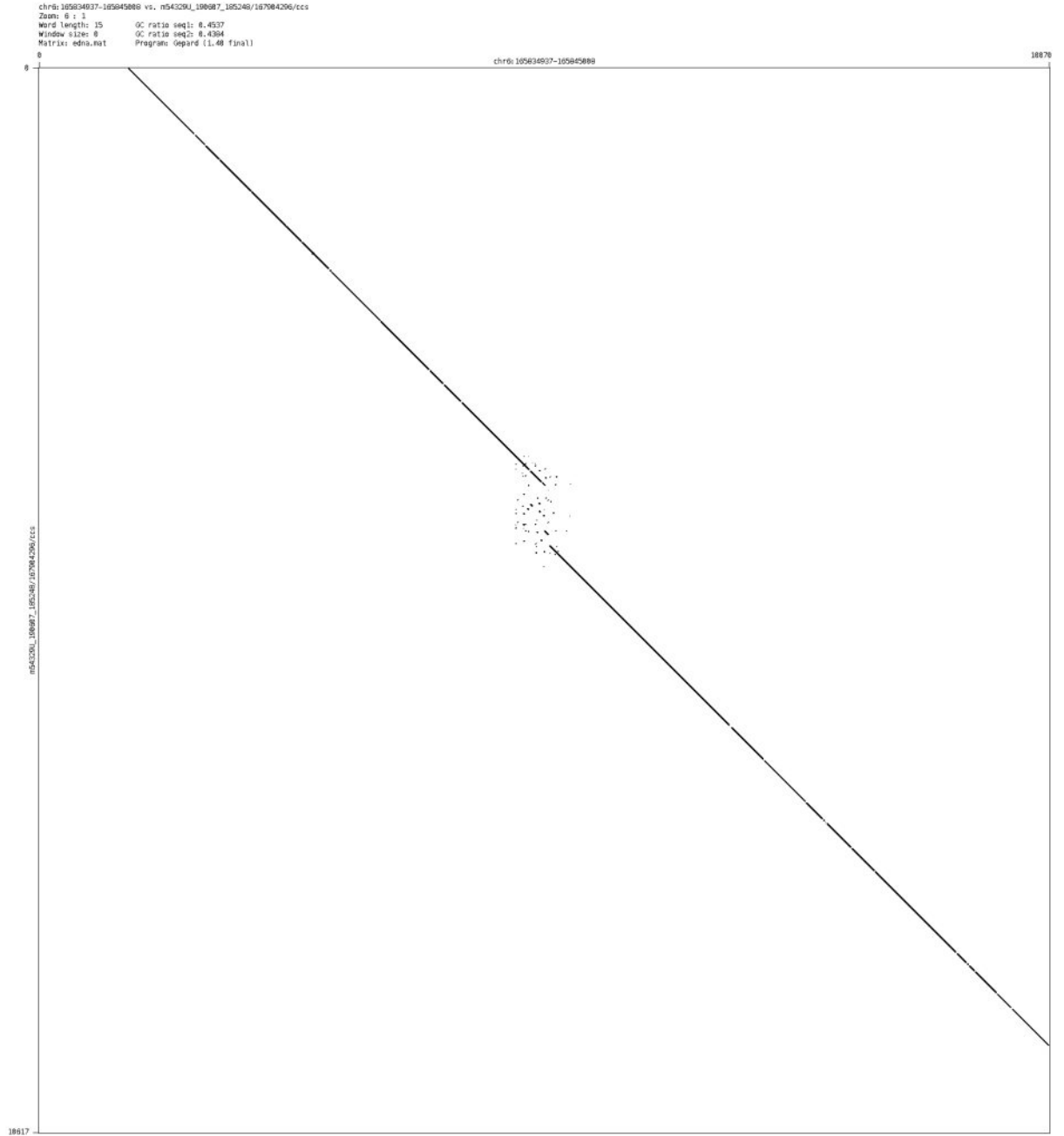
chr6:160538459-160540555 vs. m54329U\_190807\_185248/12321430/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.4373  
Window size: 8 GC ratio seq2: 0.4166  
Matrix: edna.mat Program: Oepard (1.40 final)



➤ chr6\_165749273\_165749500

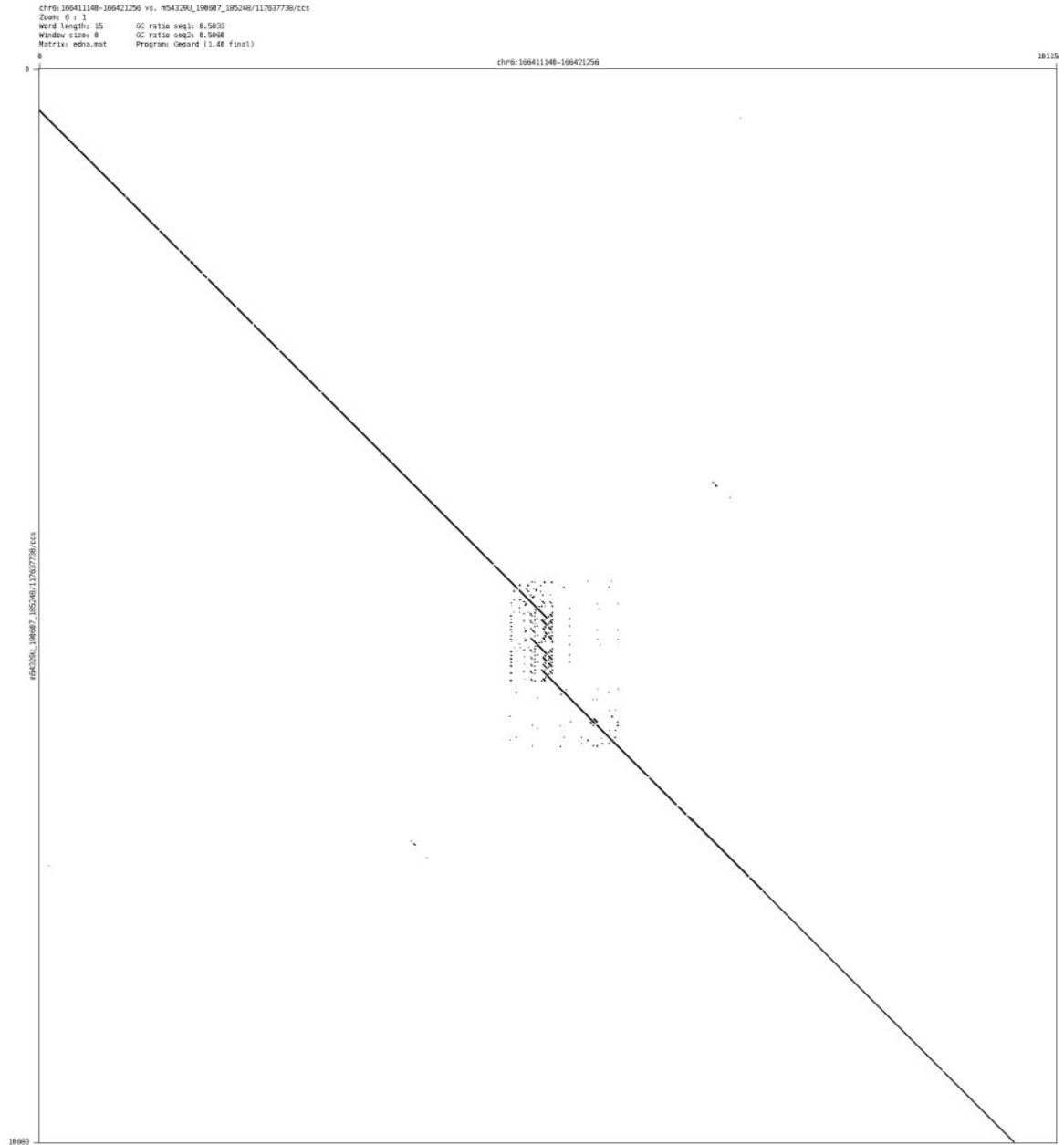


➤ chr6\_165839937\_165840008

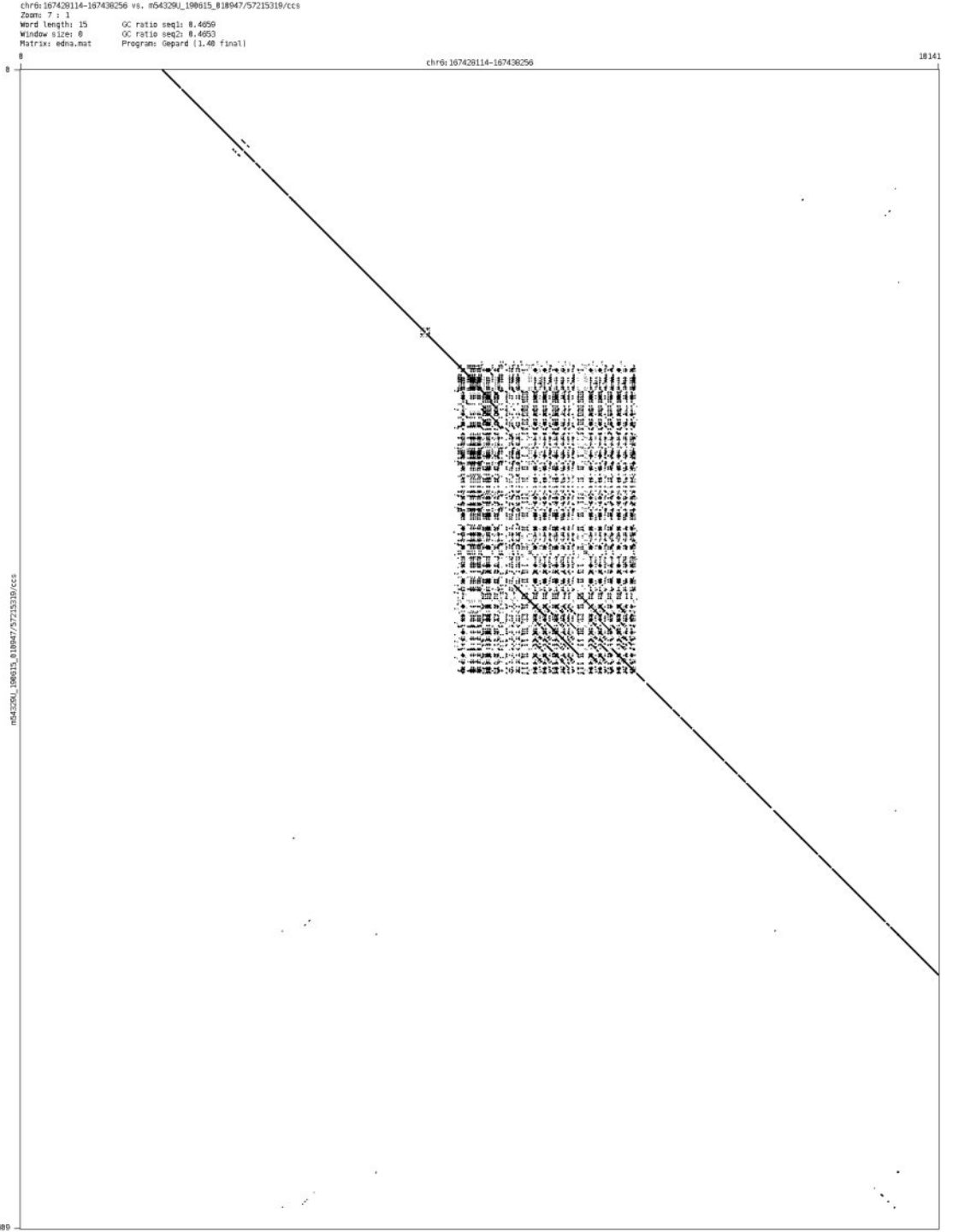




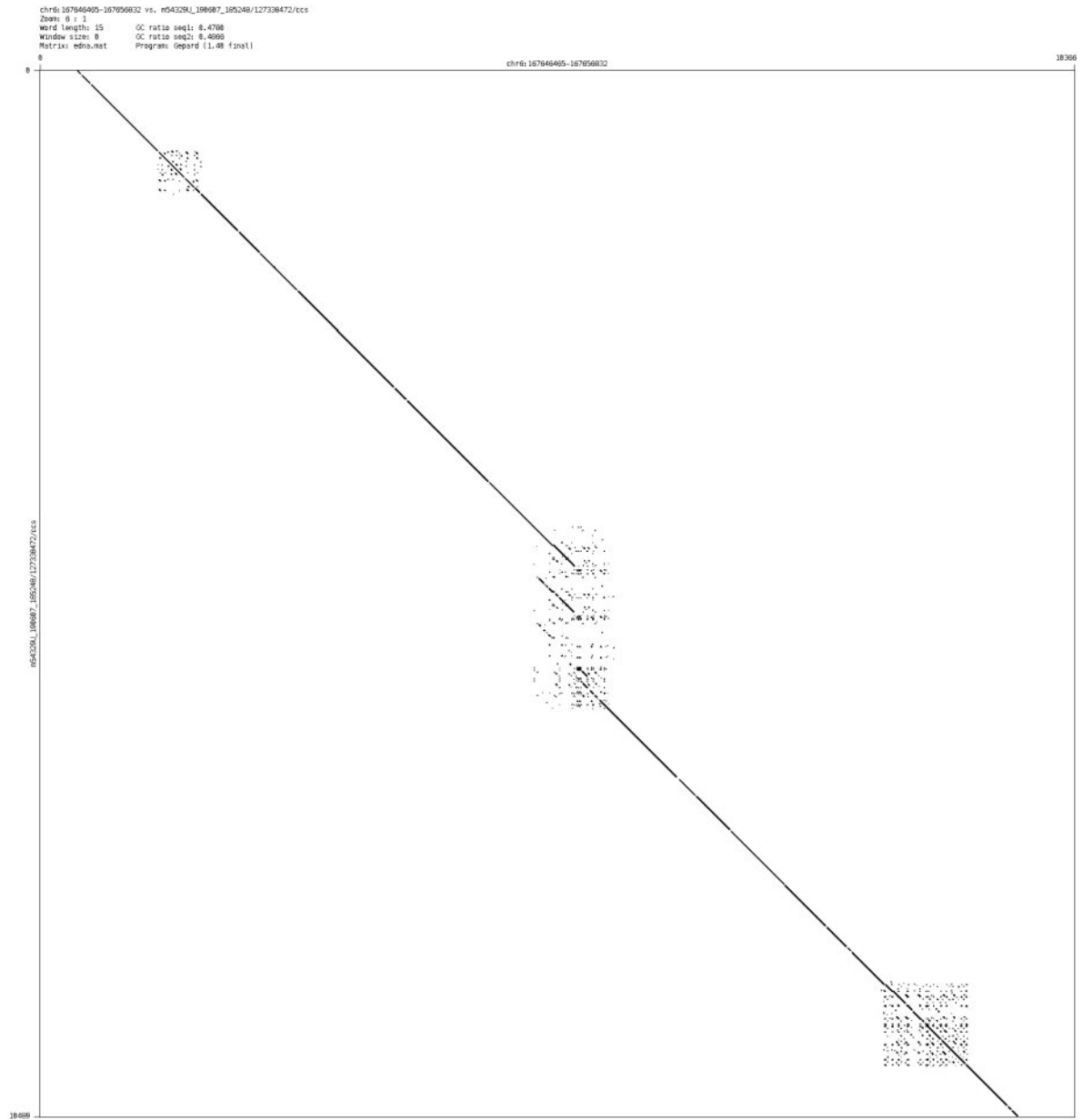
➤ chr6\_166416140\_166416256



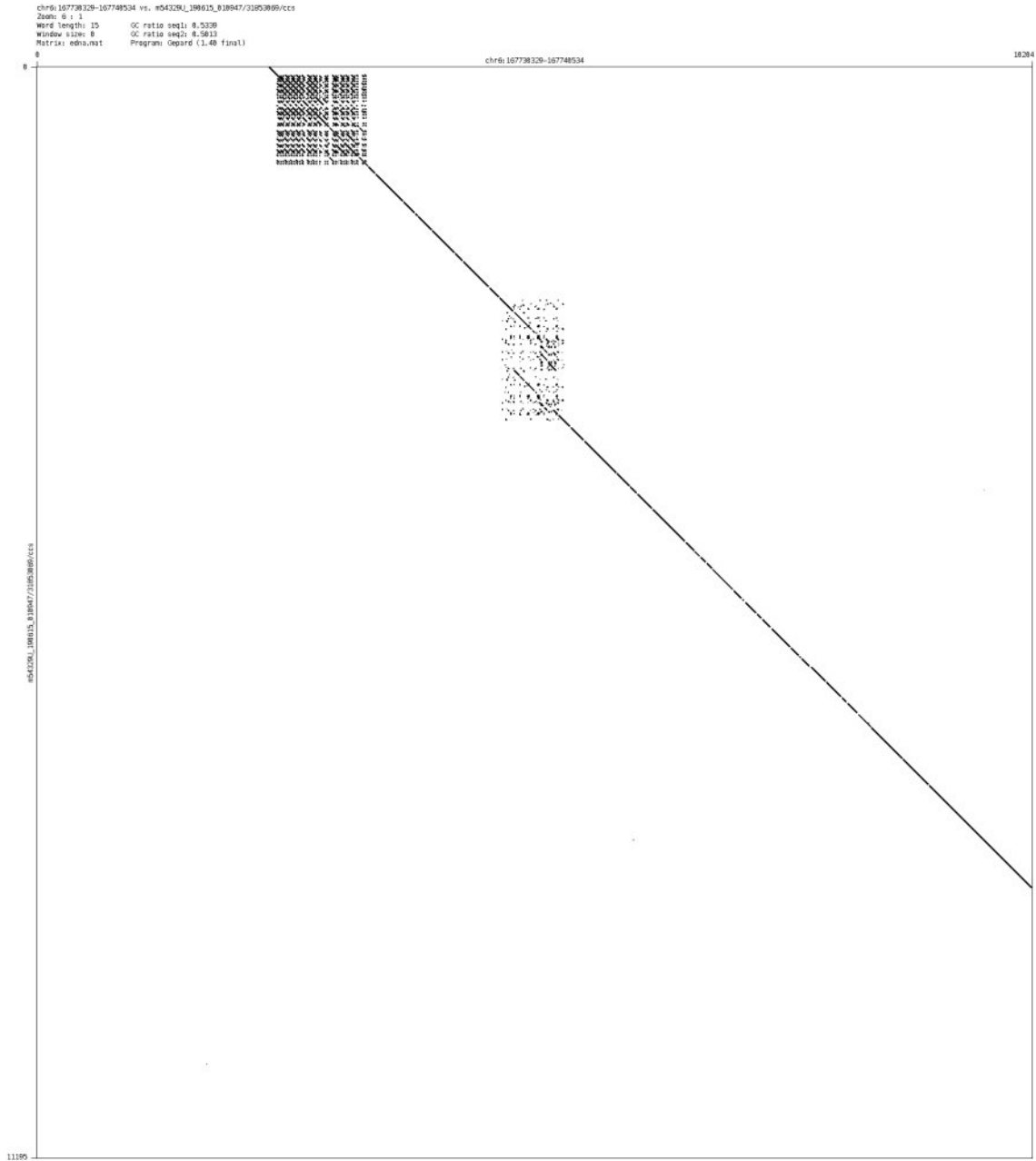
➤ chr6\_167433114\_167433256



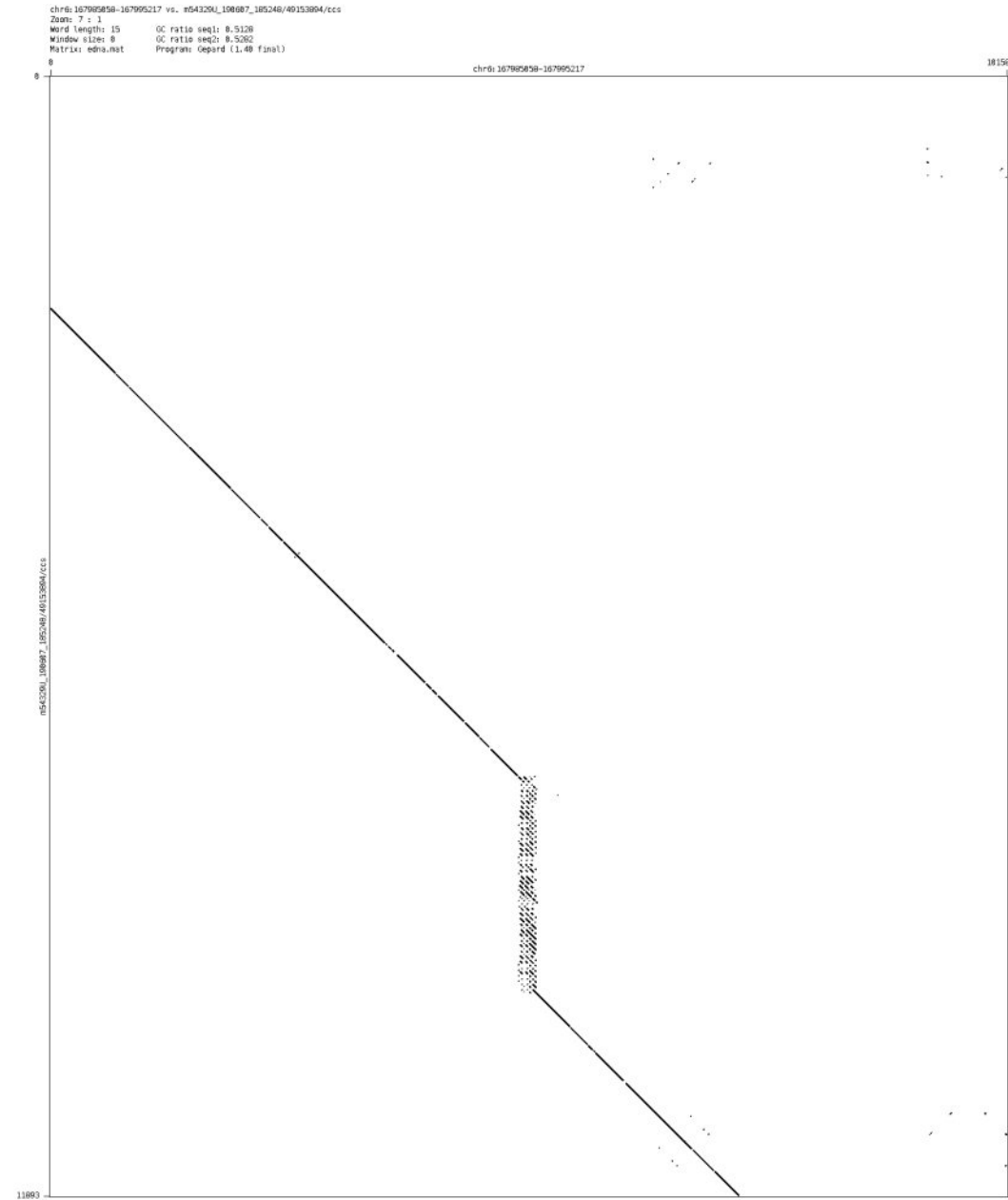
➤ chr6\_167651465\_167651832



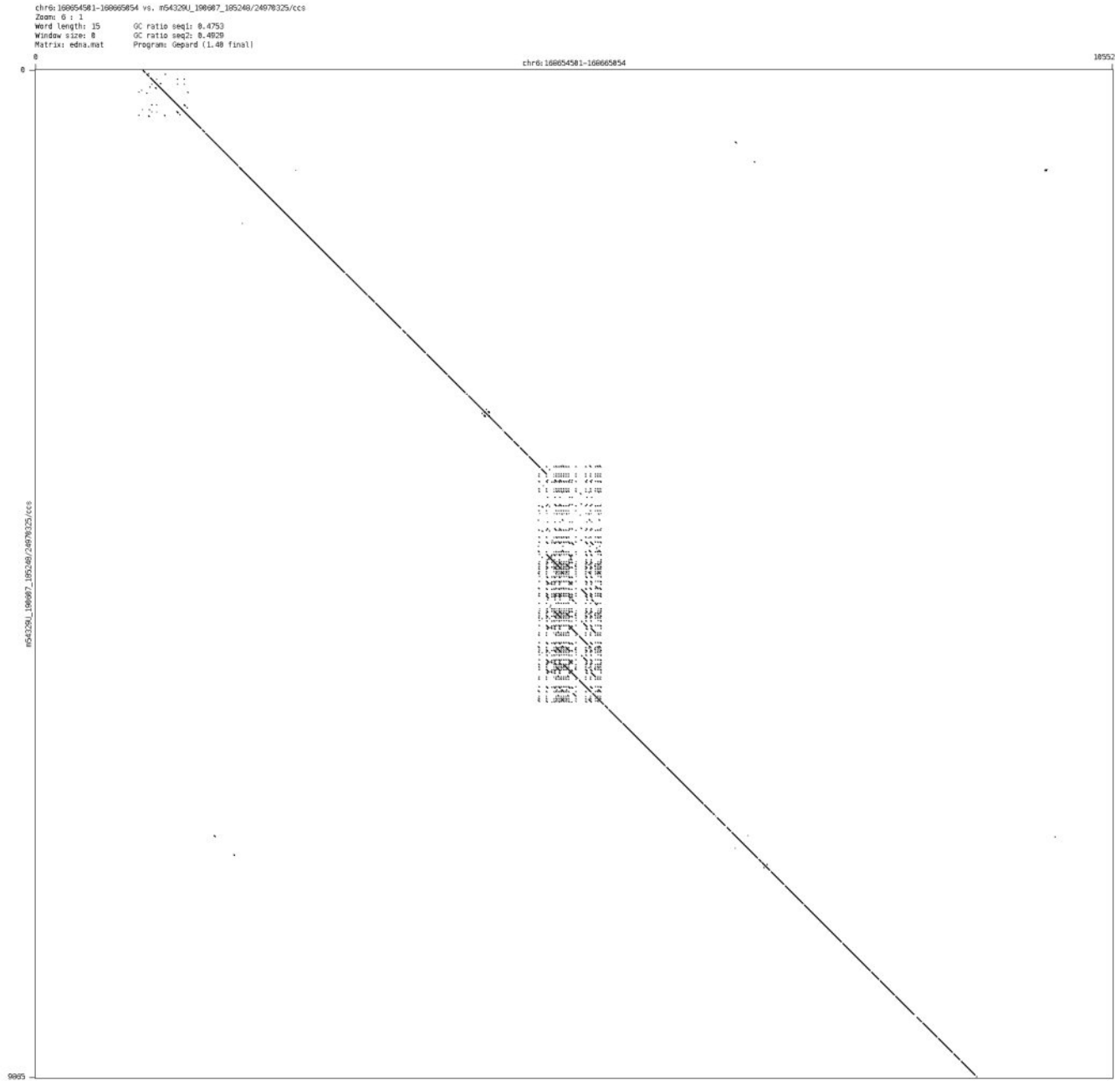
➤ chr6\_167735329\_167735534



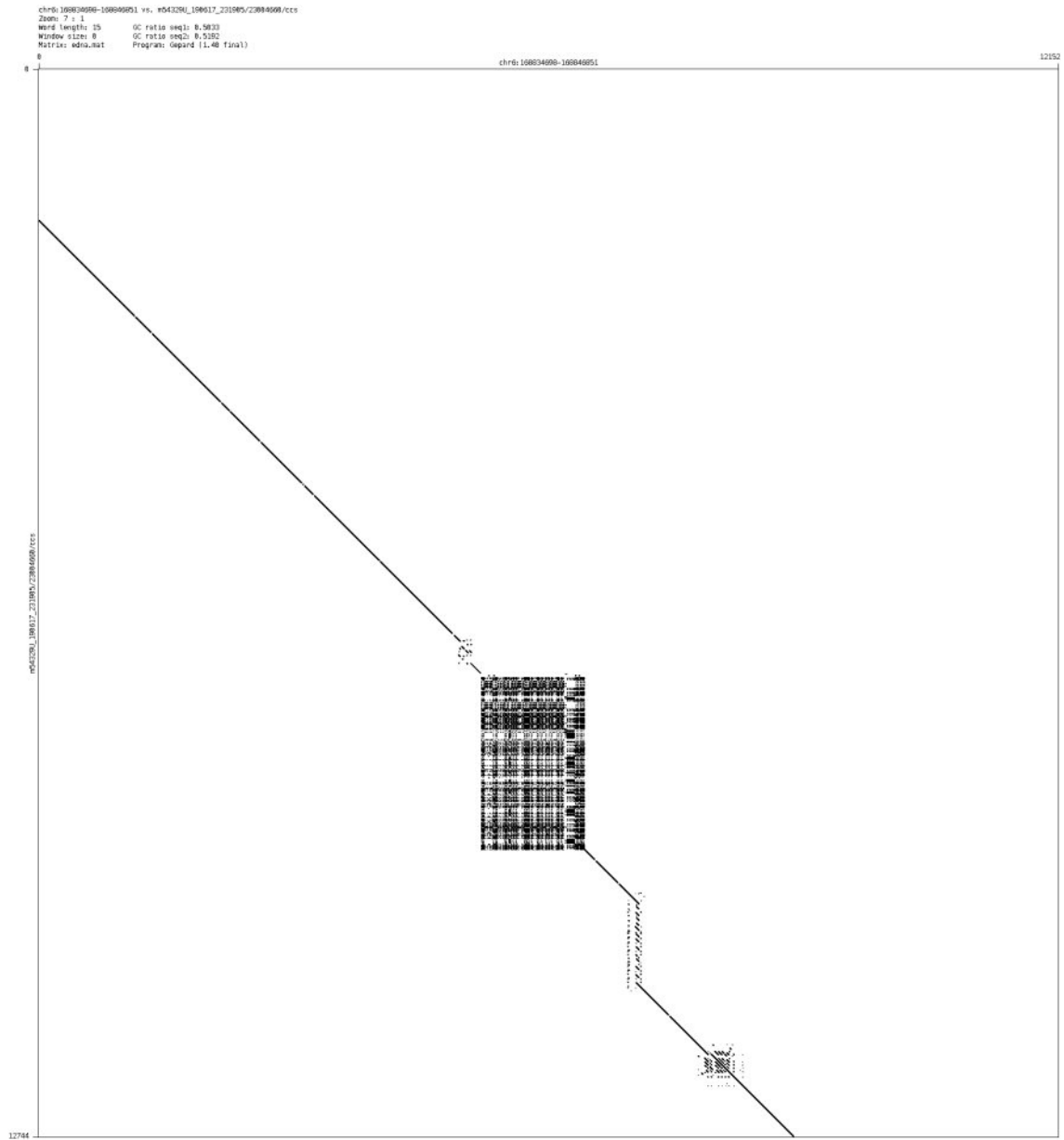
➤ chr6\_167990058\_167990217



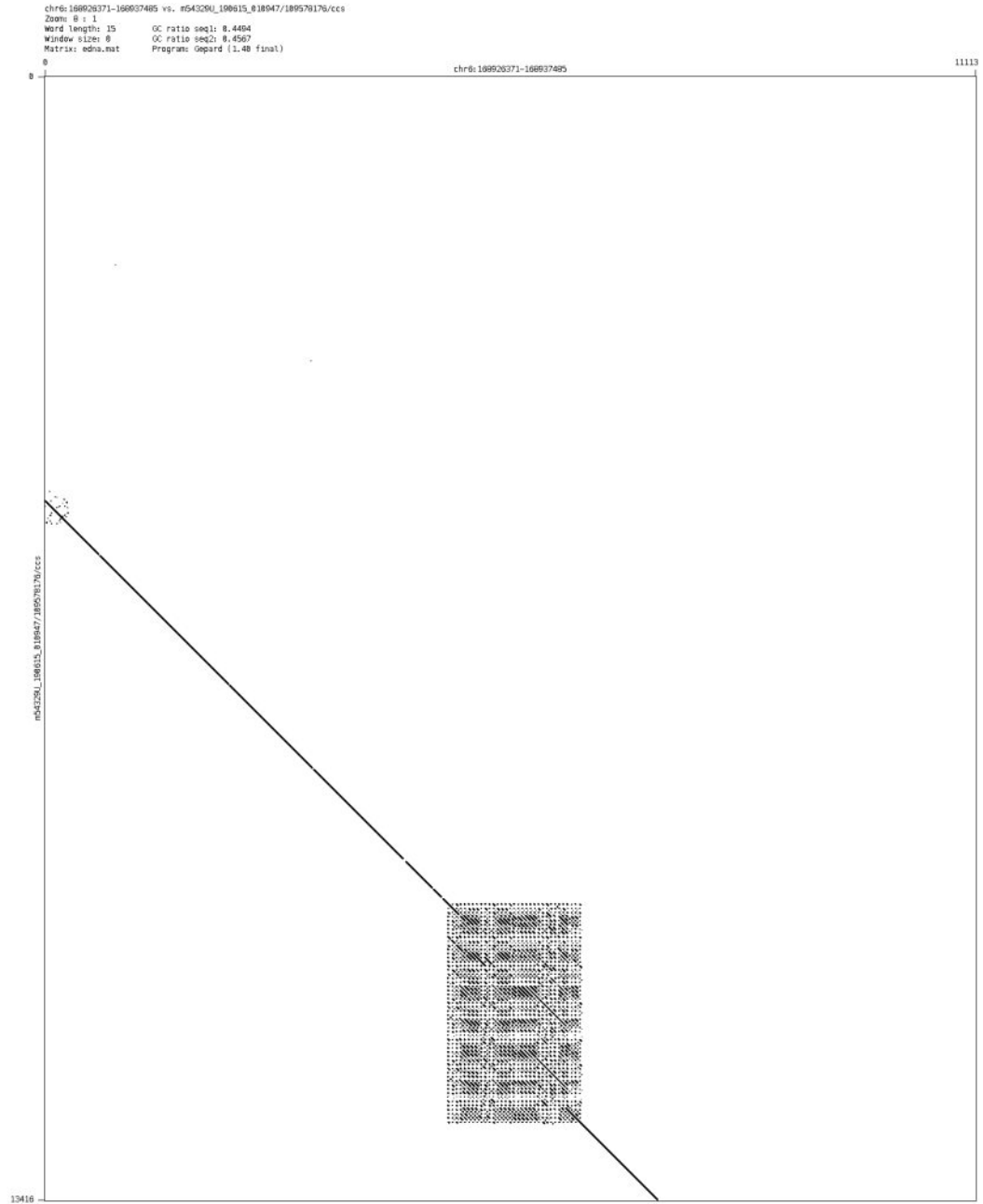
➤ chr6\_168659501\_168660054



➤ chr6\_168839698\_168841851

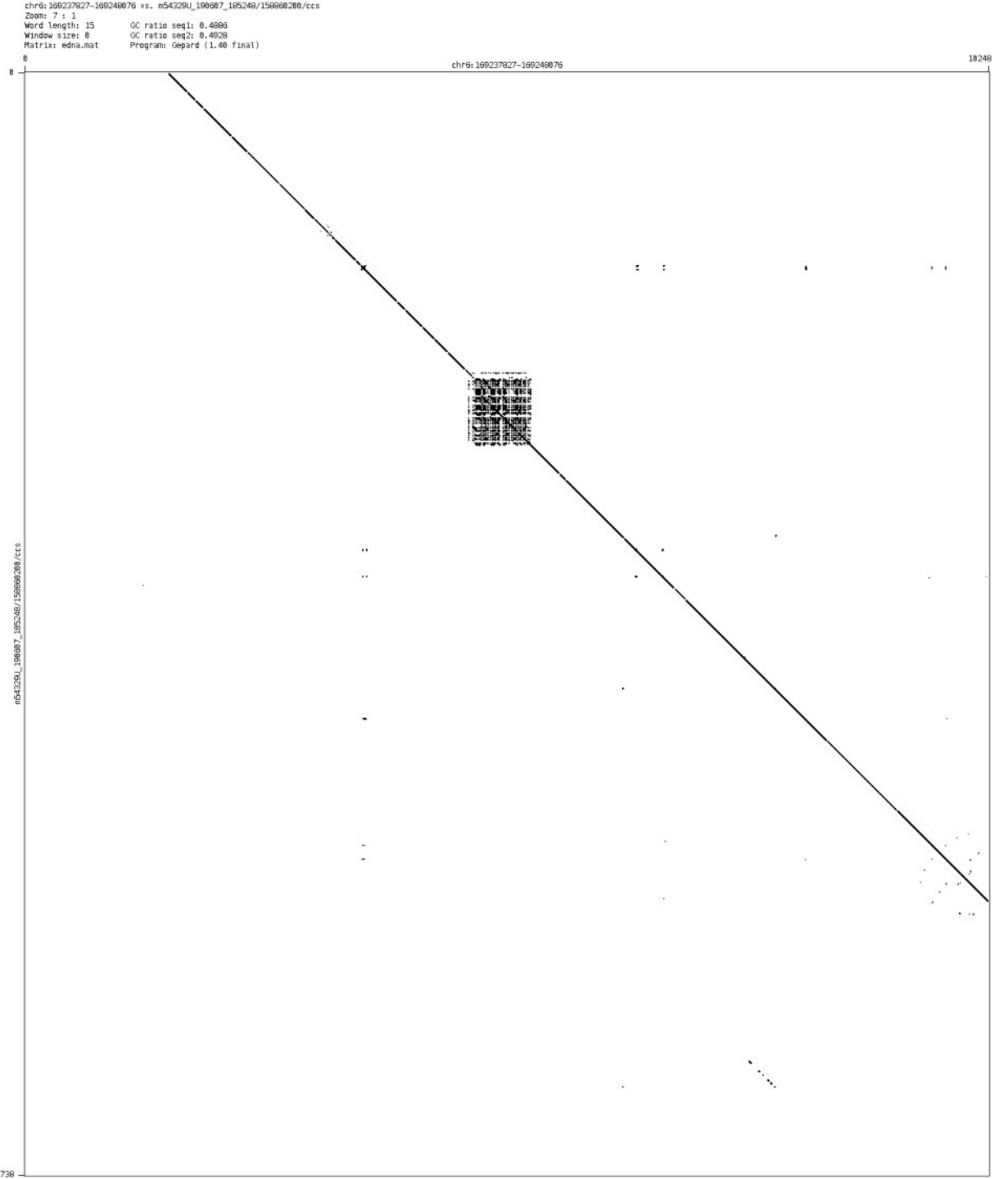


➤ chr6\_168931371\_168932485

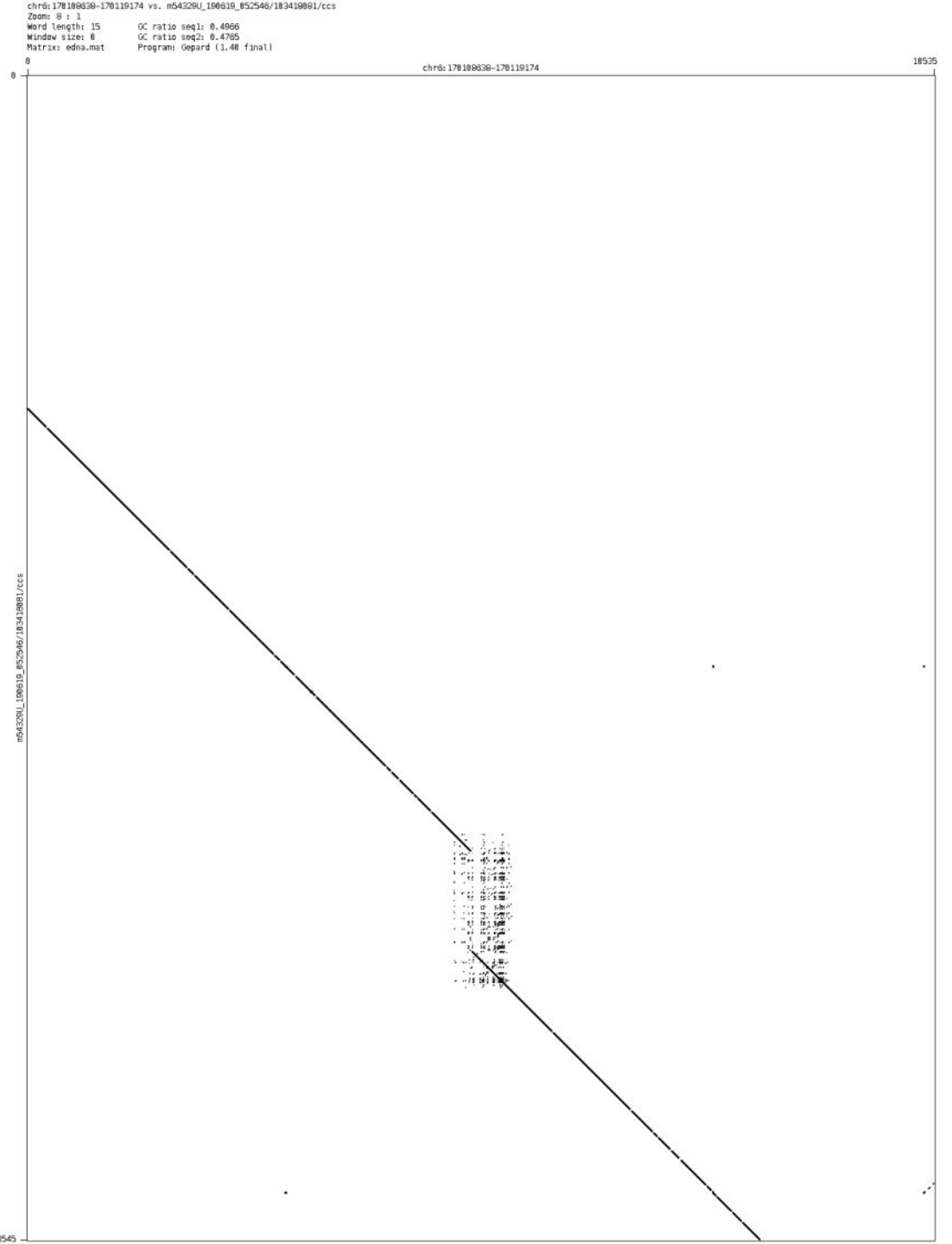




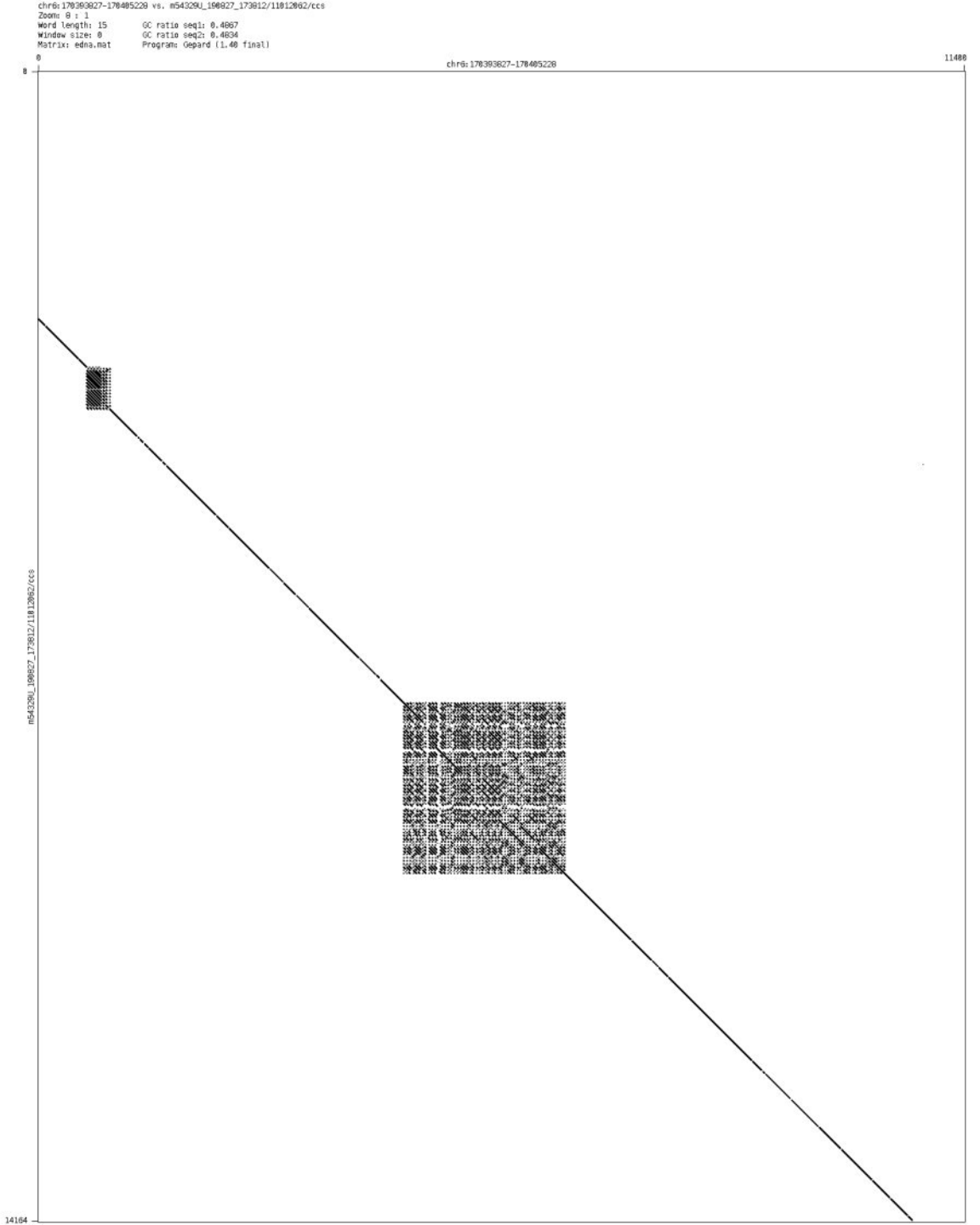
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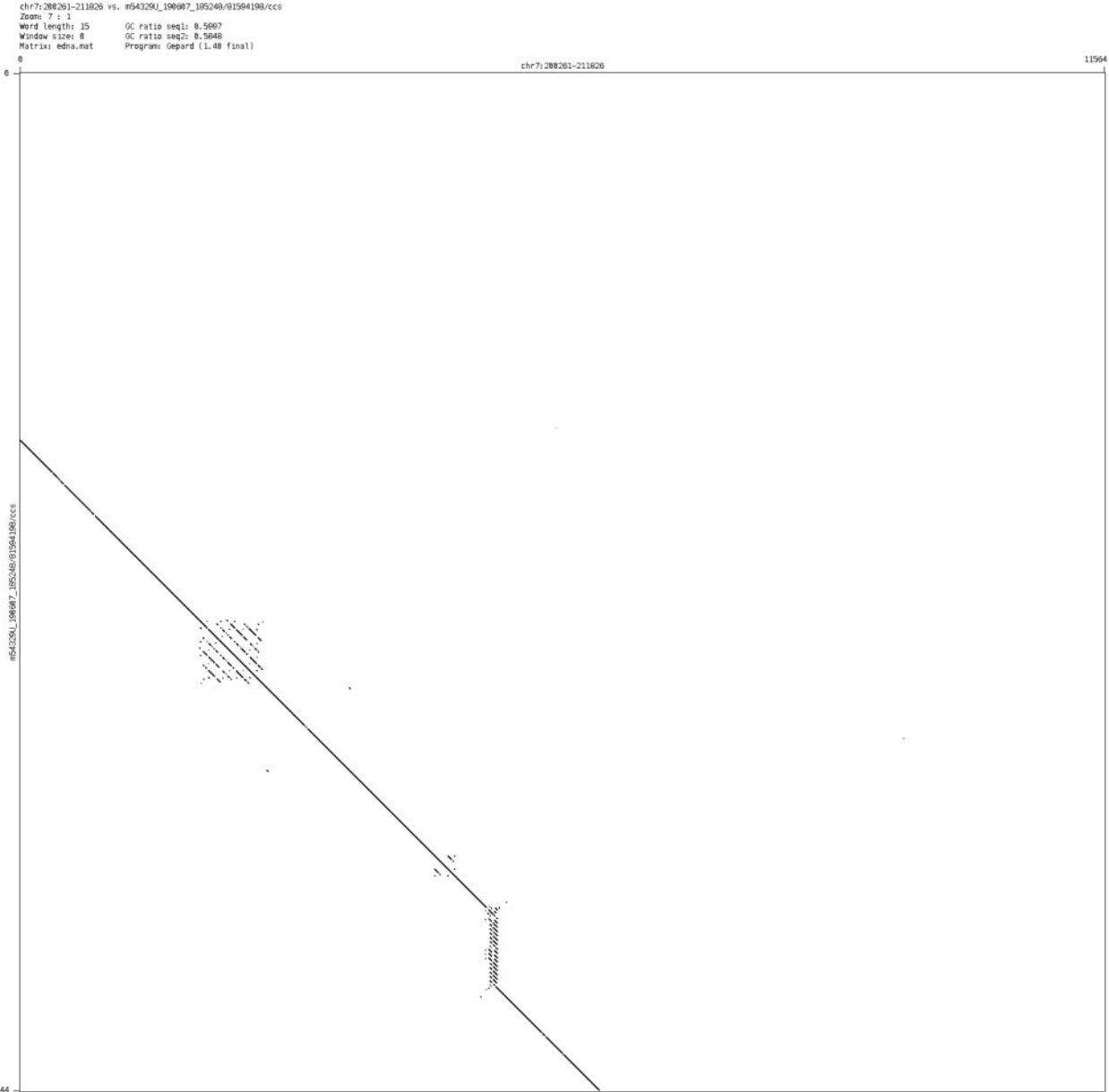
➤ chr6\_170113638\_170114174



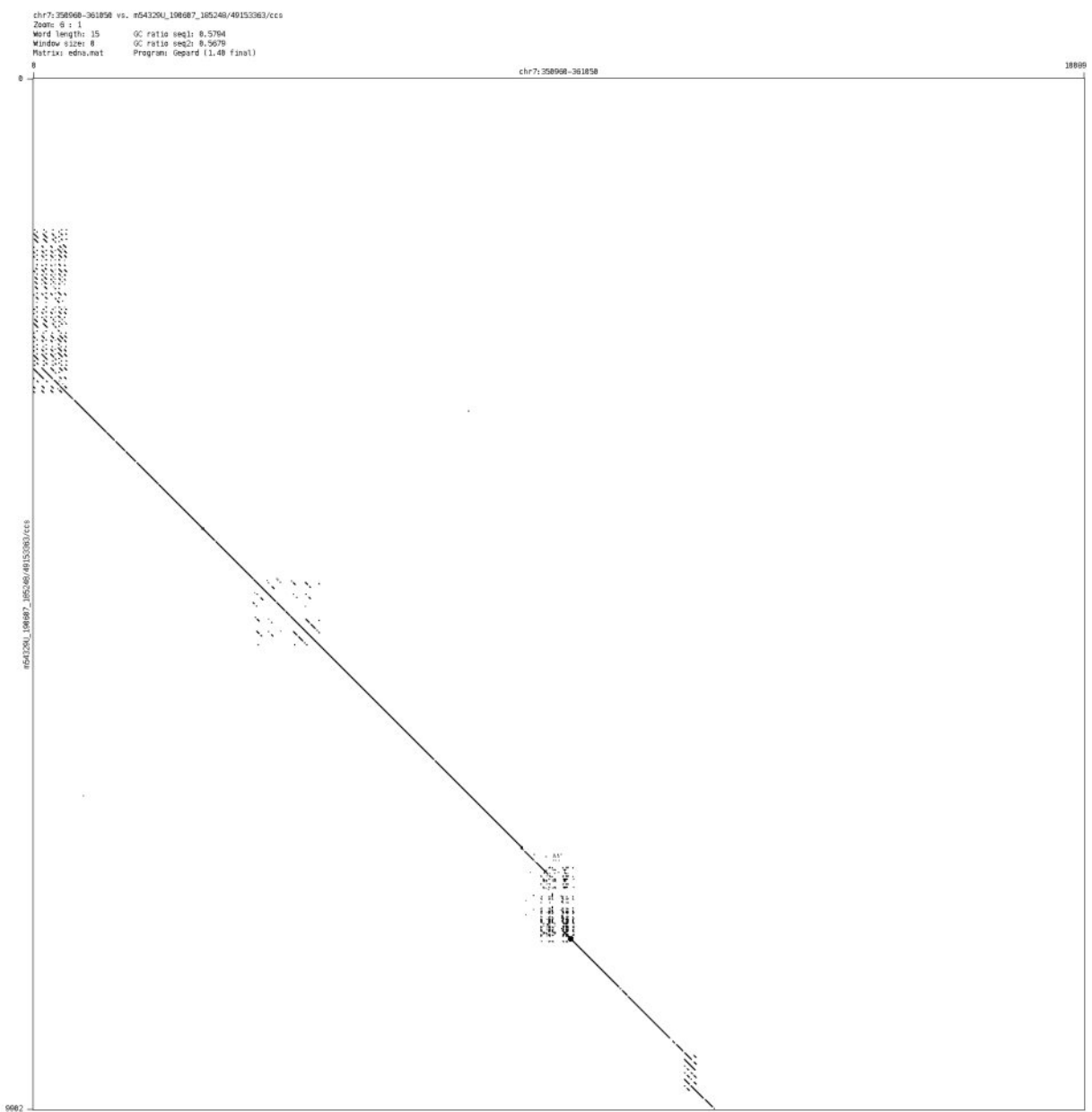
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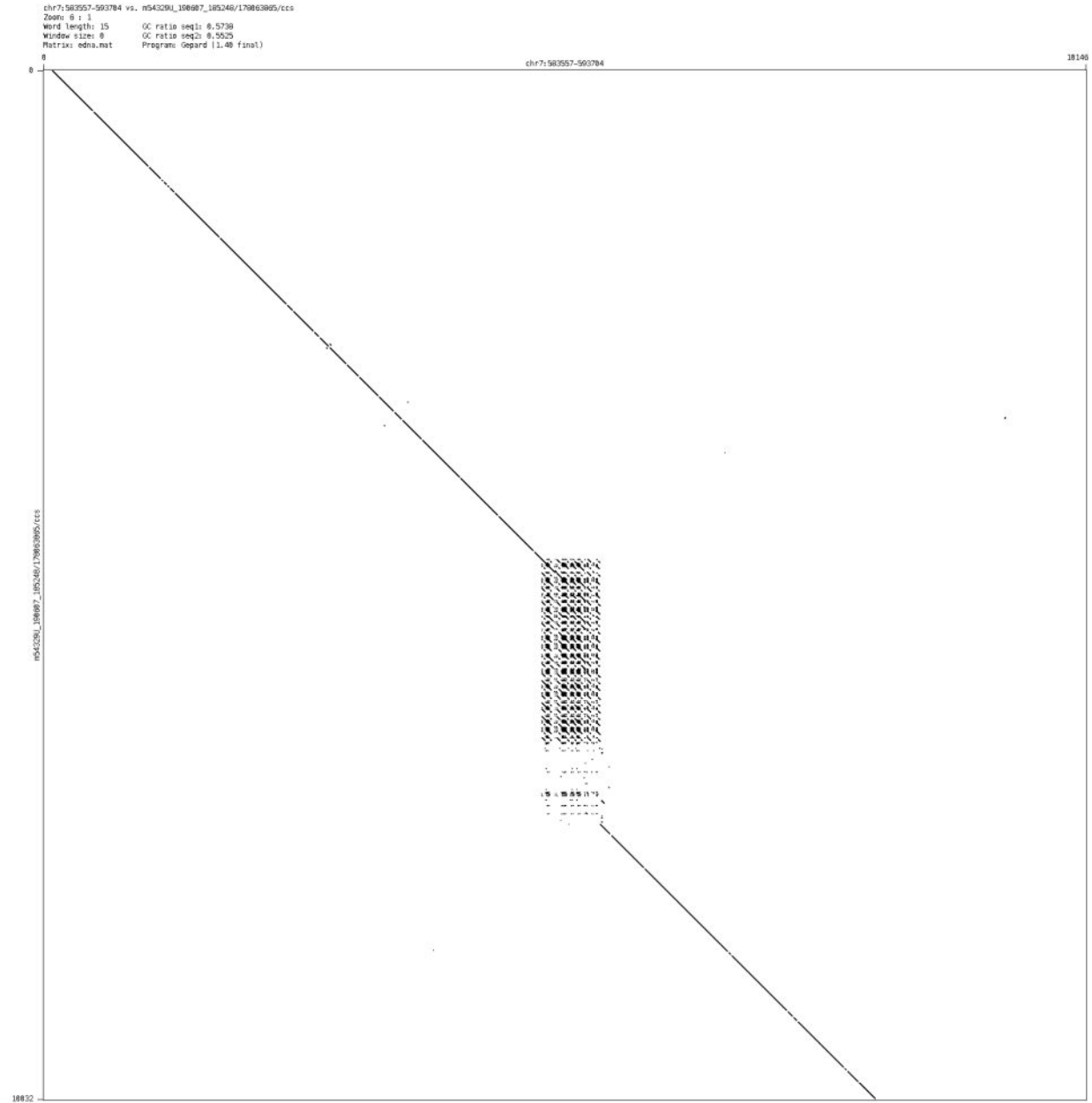
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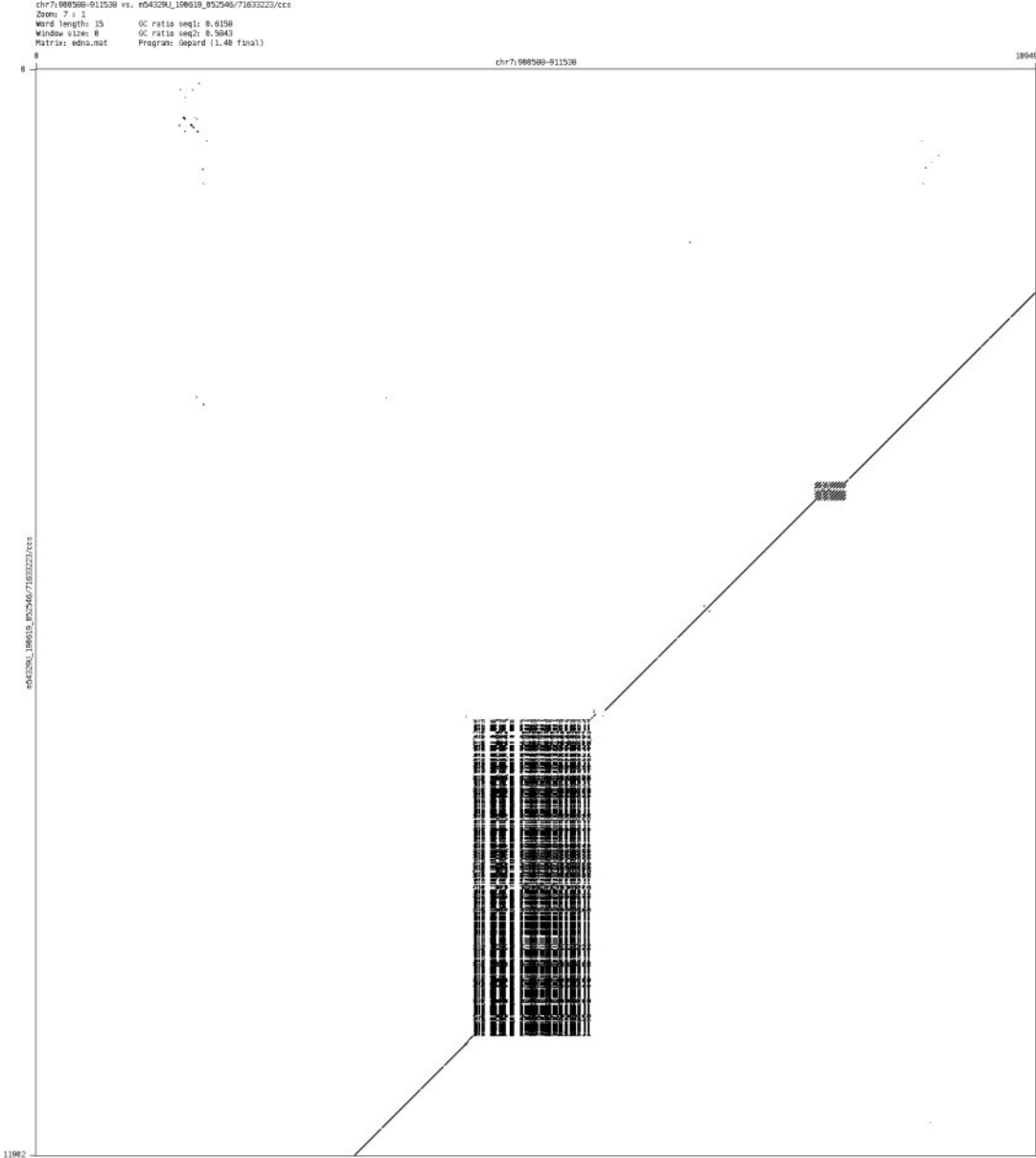
➤ chr7\_355960\_356050



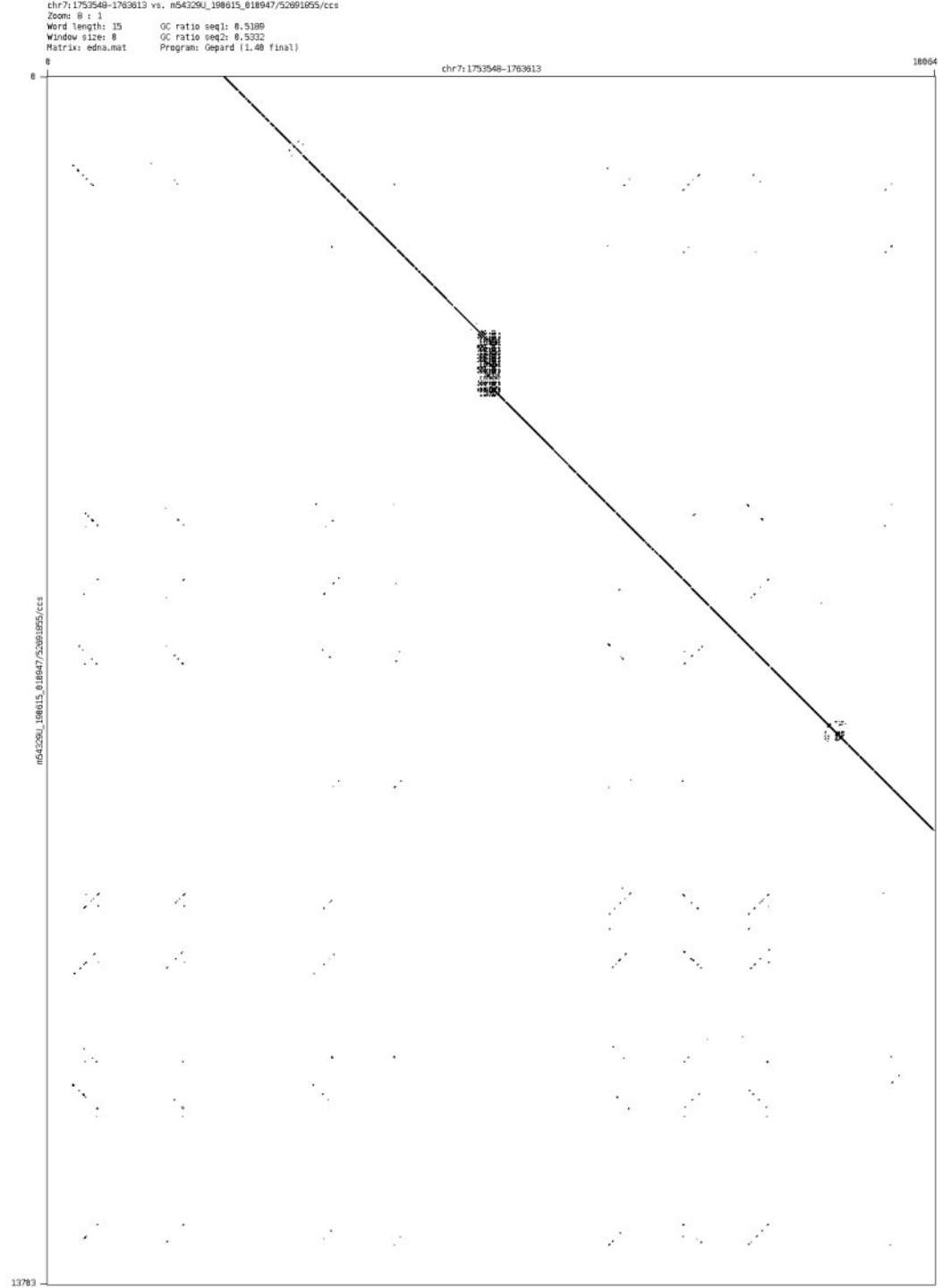
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➤ chr7\_905588\_906538

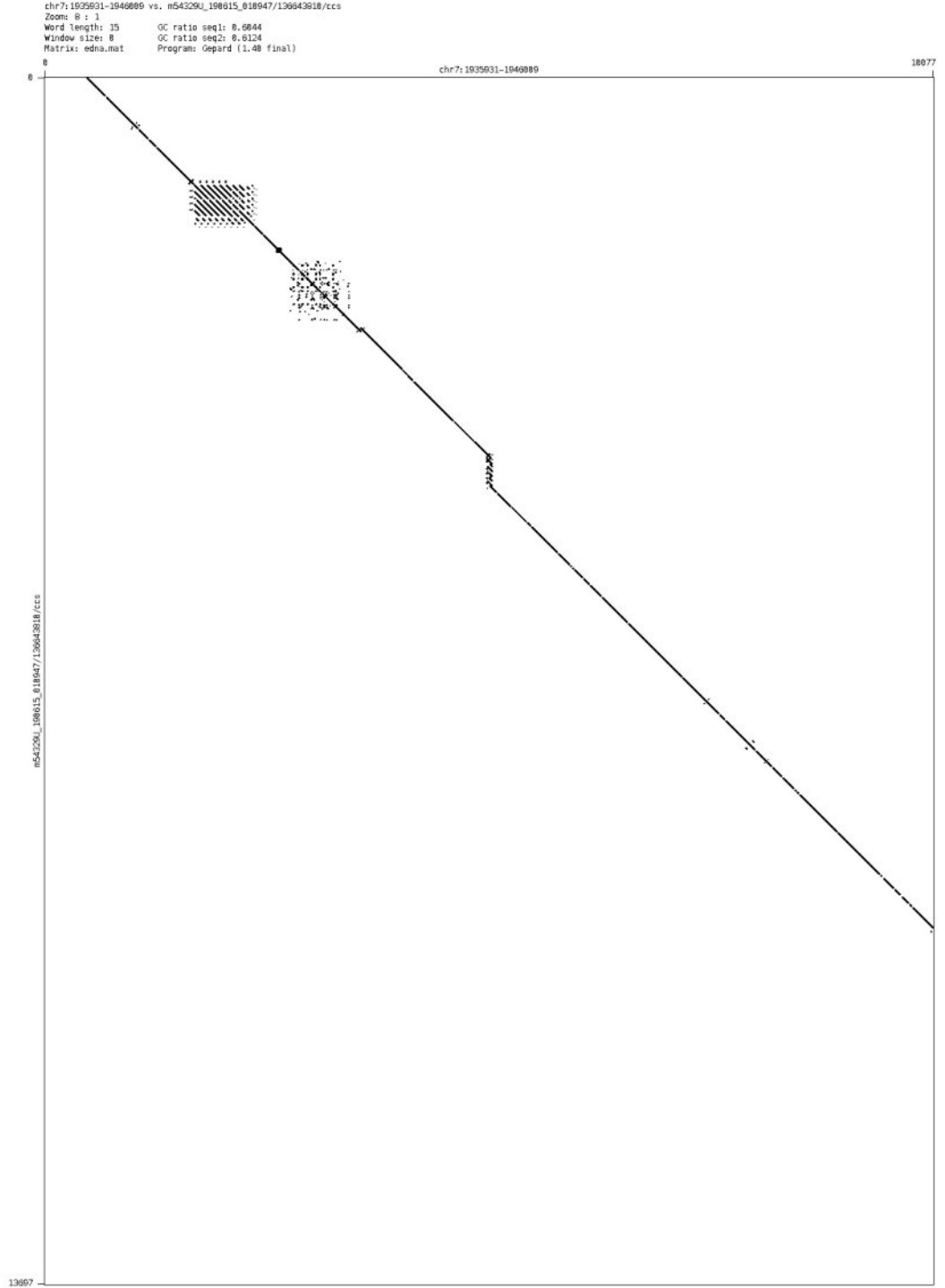


➤ chr7\_1758548\_1758613

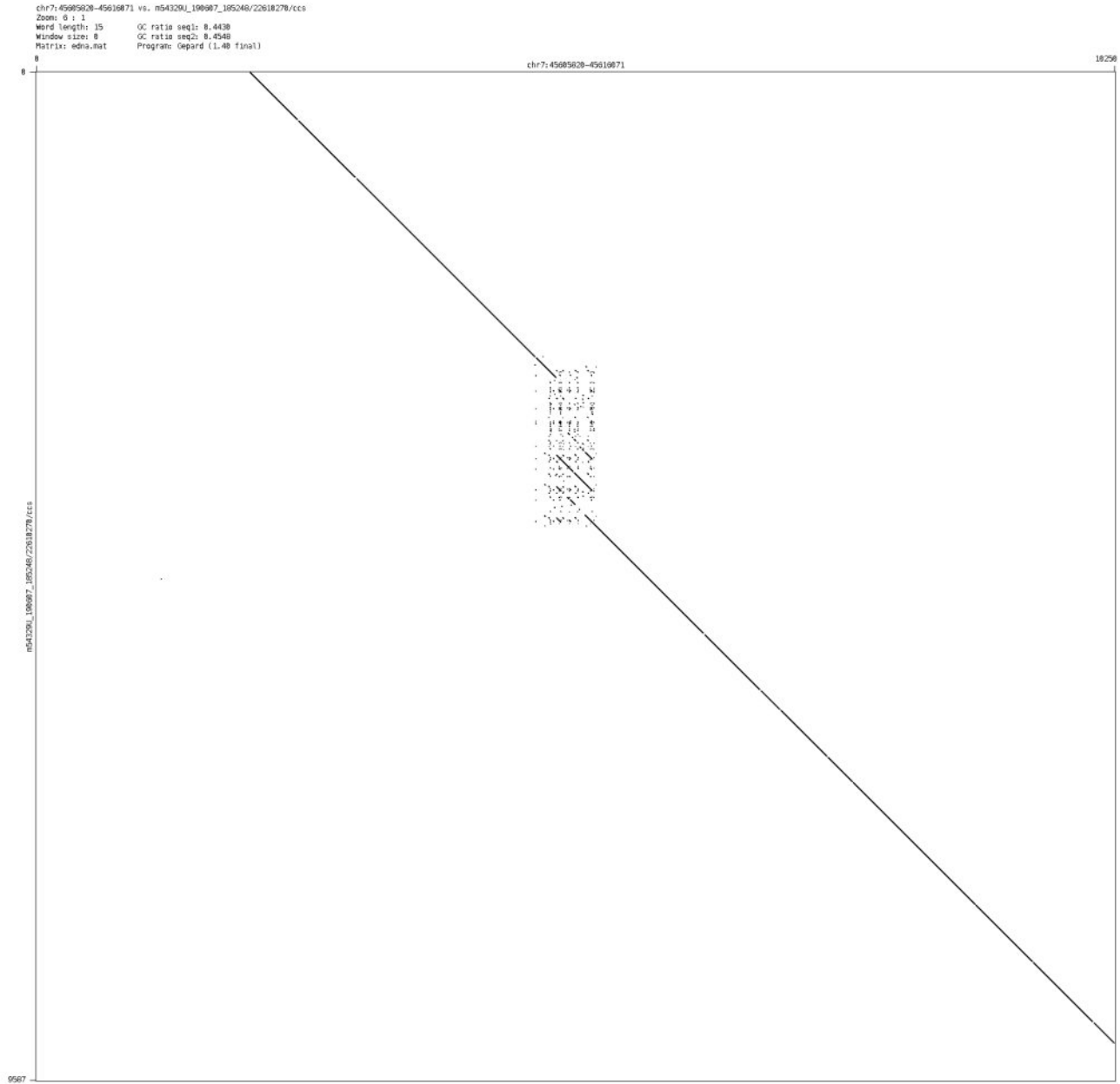




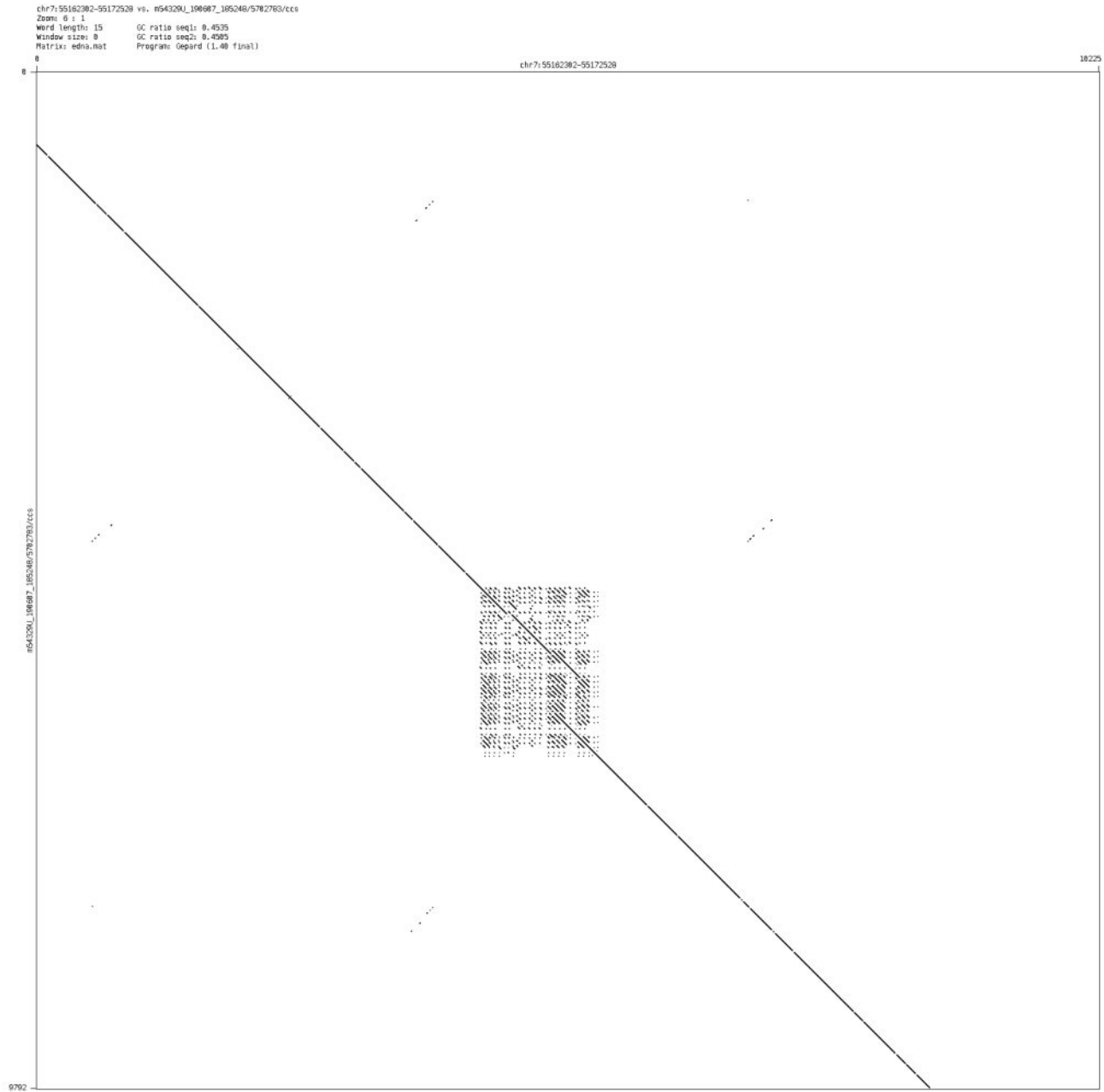
➤ chr7\_1940931\_1941009



➤ chr7\_45610820\_45611071

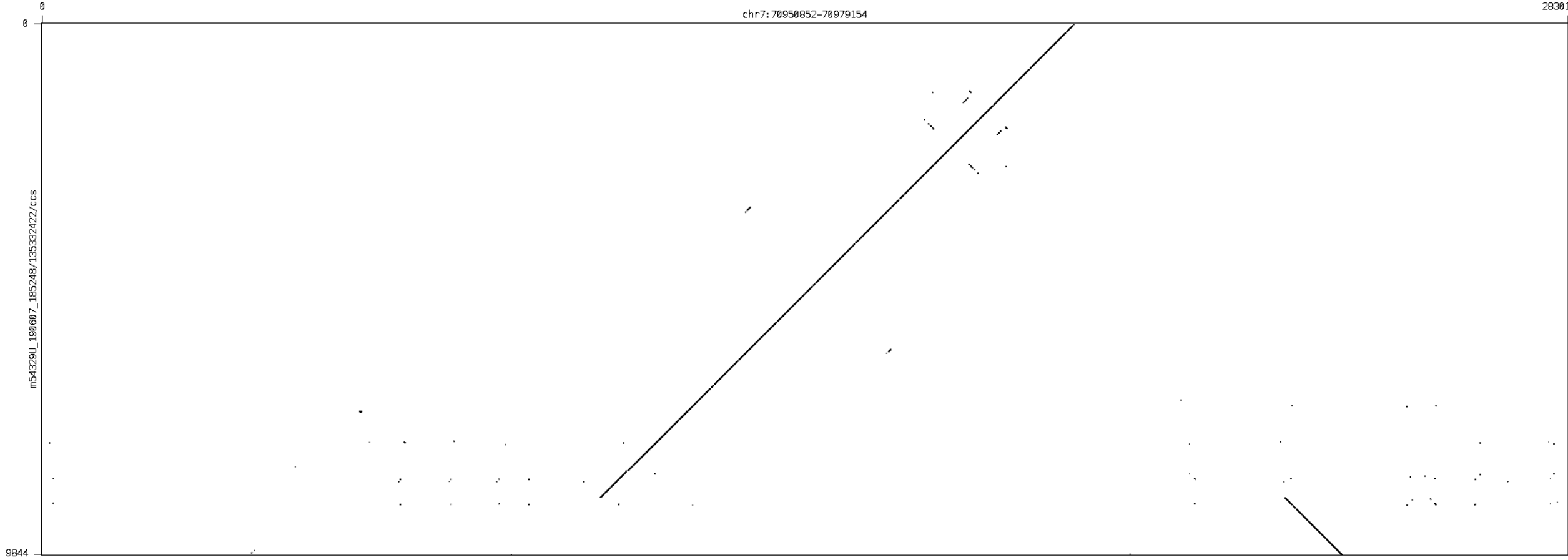


➤ chr7\_55167302\_55167528



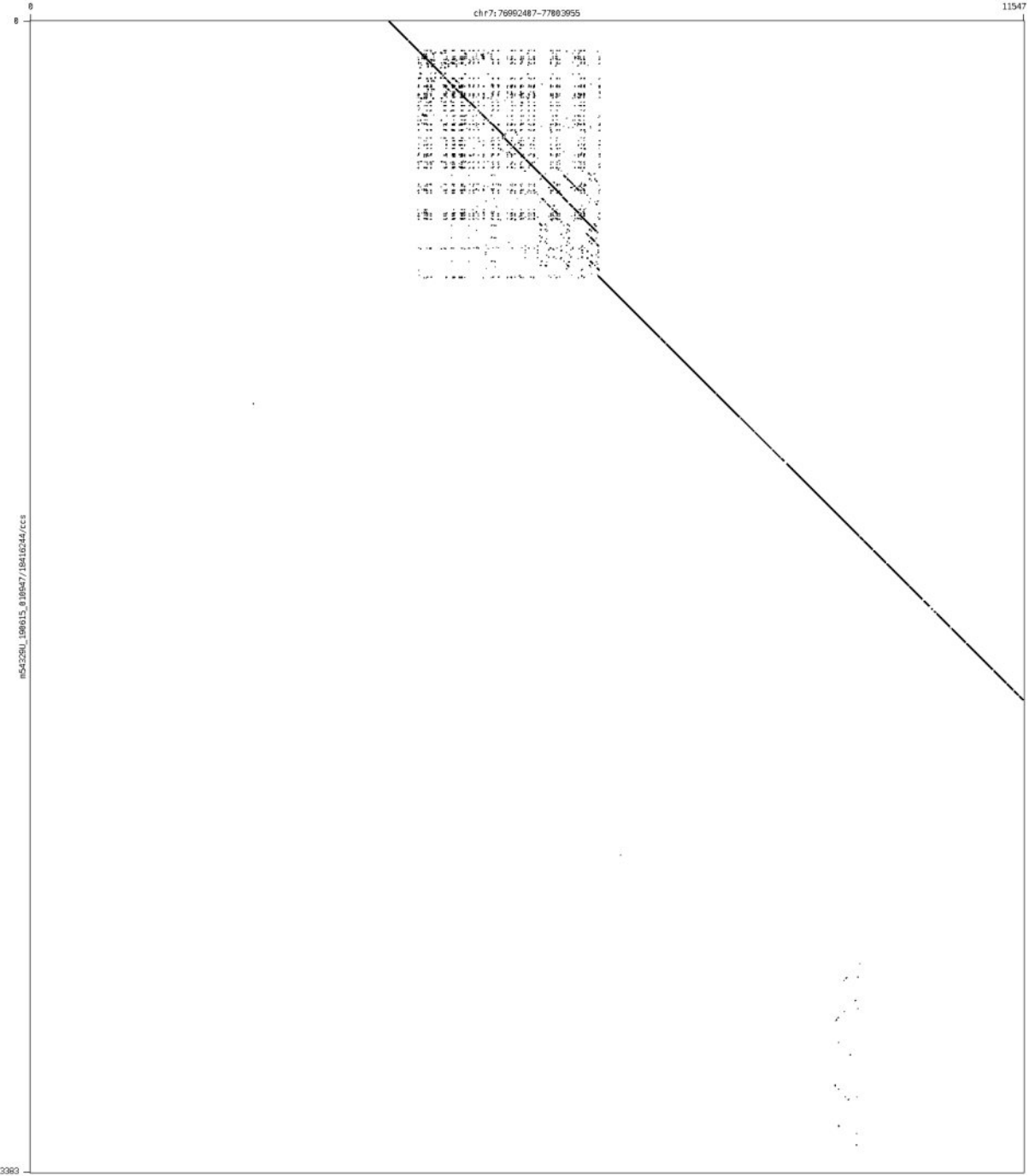
# ➤ chr7\_70955852\_70974154

chr7:70950852-70979154 vs. m54329U\_190607\_185248/135332422/ccs  
Zoom: 15 : 1  
Word length: 15 GC ratio seq1: 0.4474  
Window size: 0 GC ratio seq2: 0.4449  
Matrix: edna.mat Program: Gepard (1.40 final)

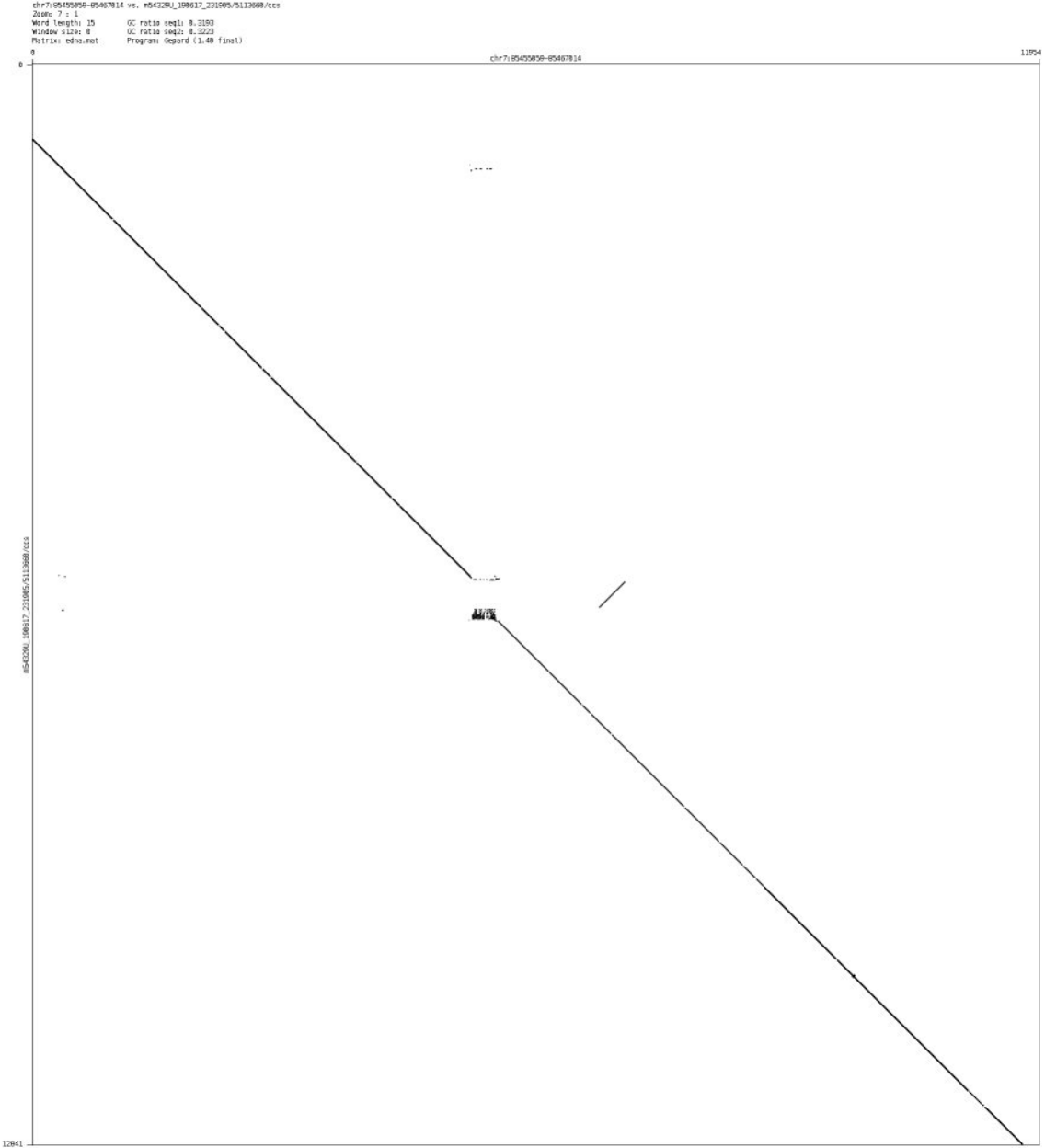


➤ chr7\_76997407\_76998955

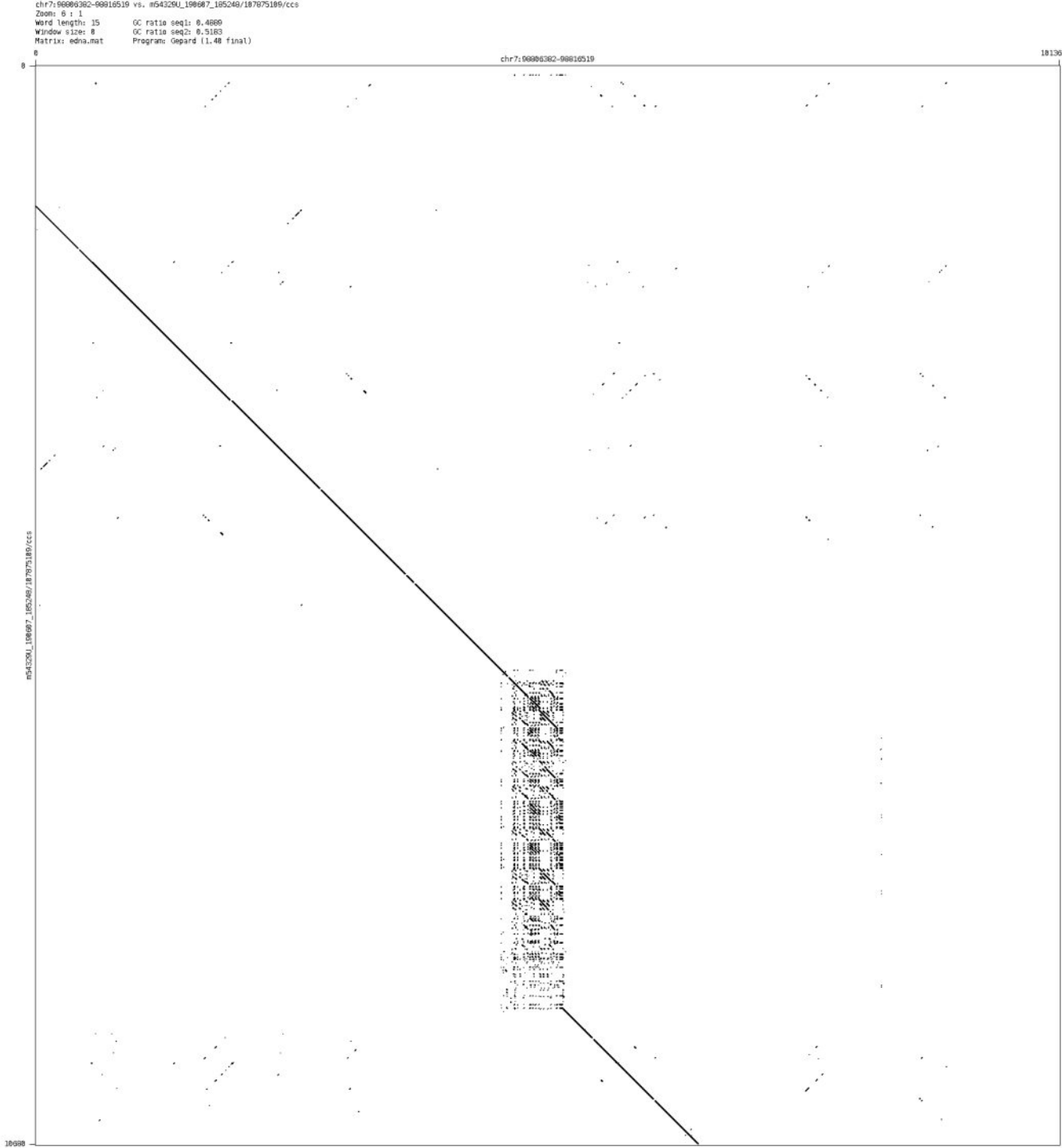
chr7:76992487-77883955 vs. m54329U\_198615\_018947/18416244/ccs  
Zoom: 8 : 1  
Word Length: 15 GC ratio seq1: 0.6607  
Window size: 0 GC ratio seq2: 0.5968  
Matrix: edna.mat Program: Gepard (1.48 final)



➤ chr7\_85460059\_85462014



➤ chr7\_98811382\_98811519

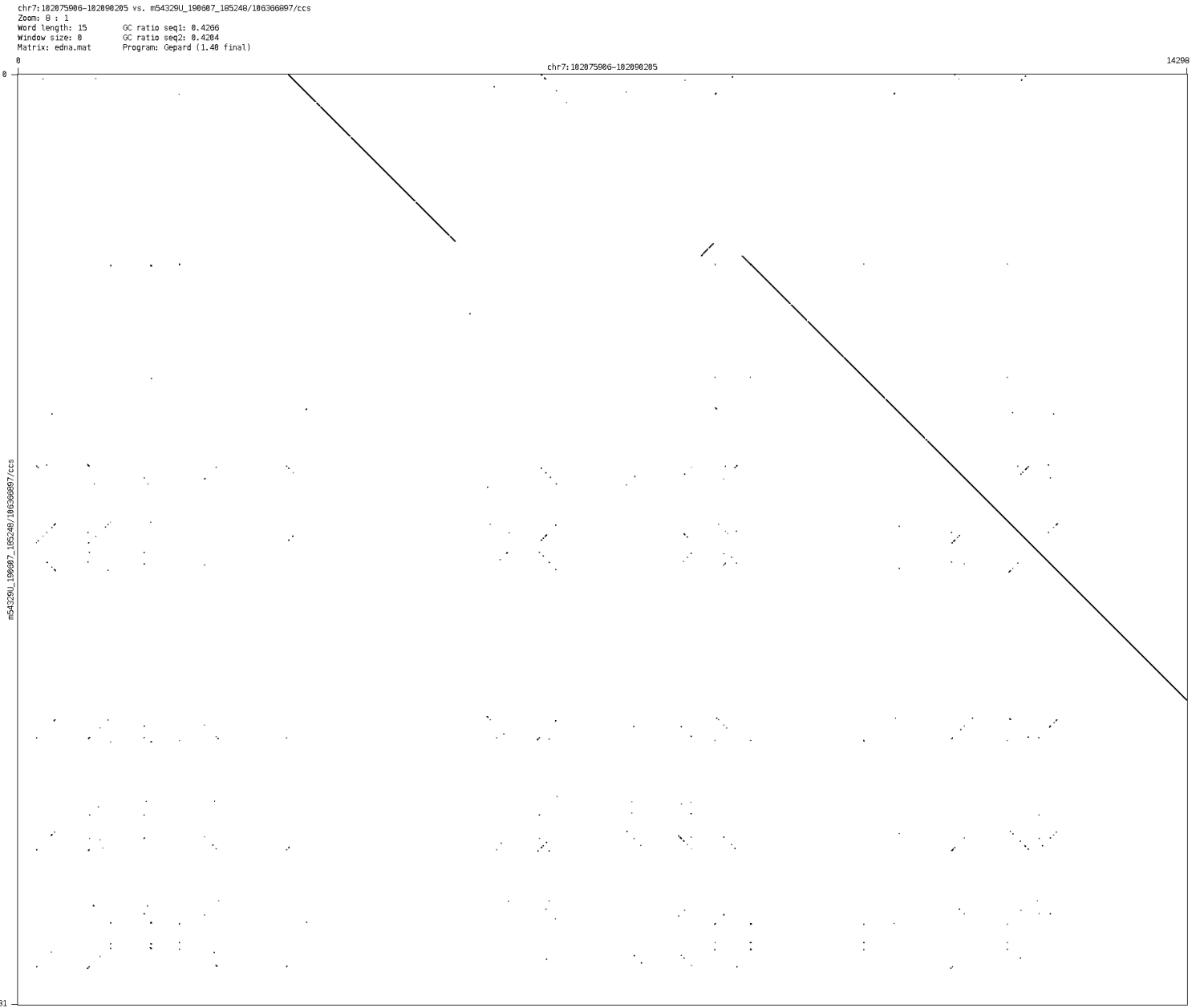


➤ chr7\_100957703\_100958508

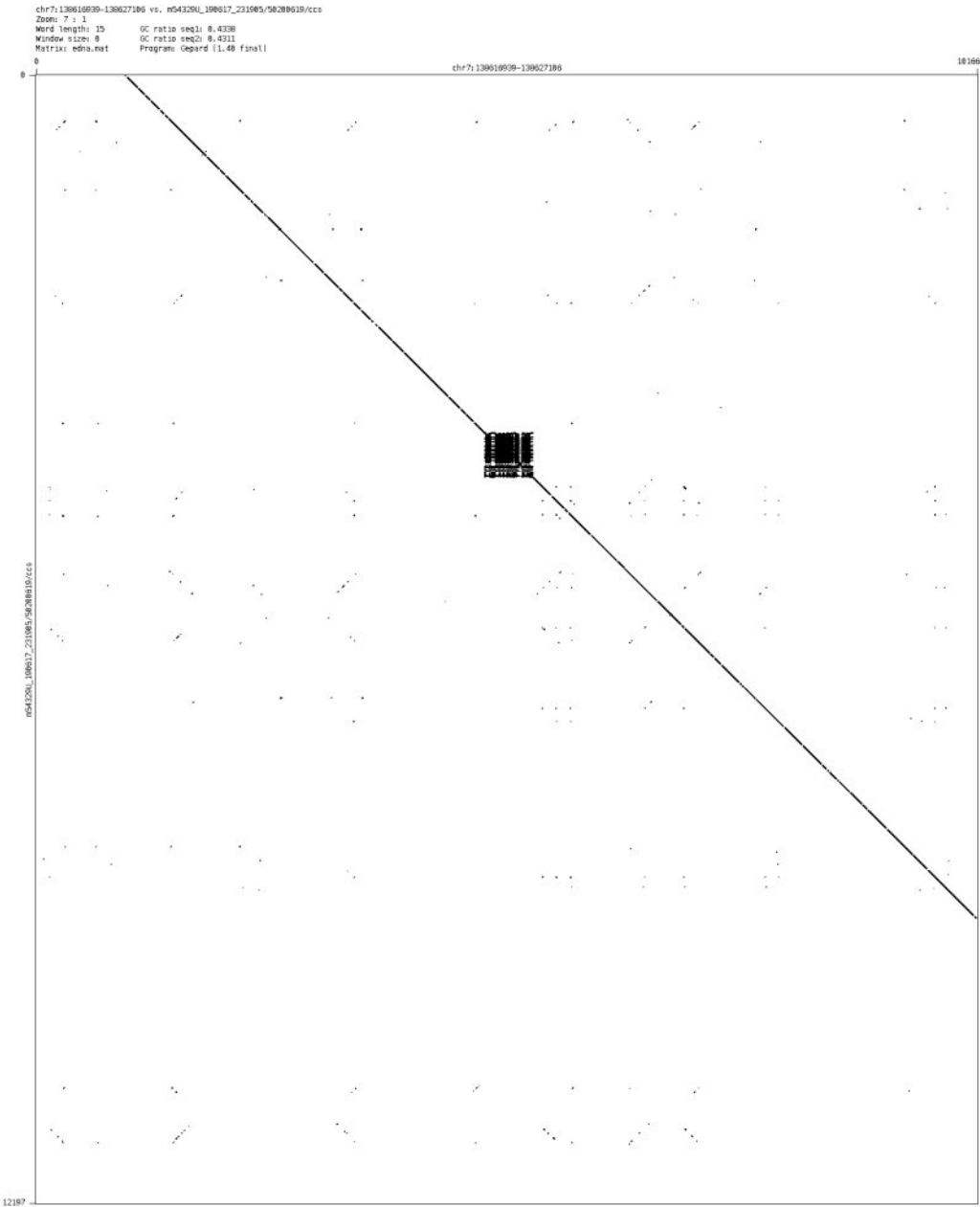




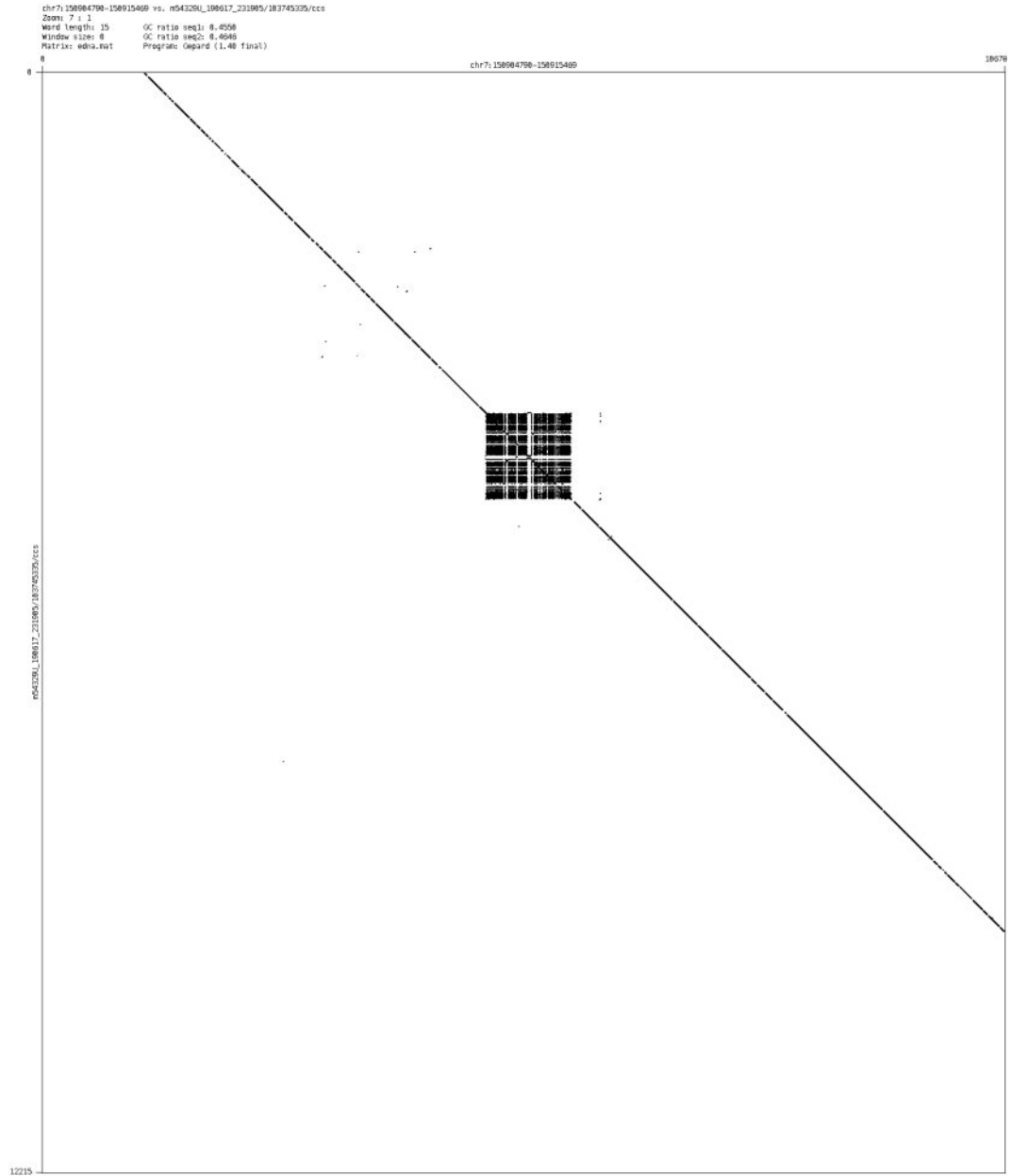
➤ chr7\_102080906\_102085205



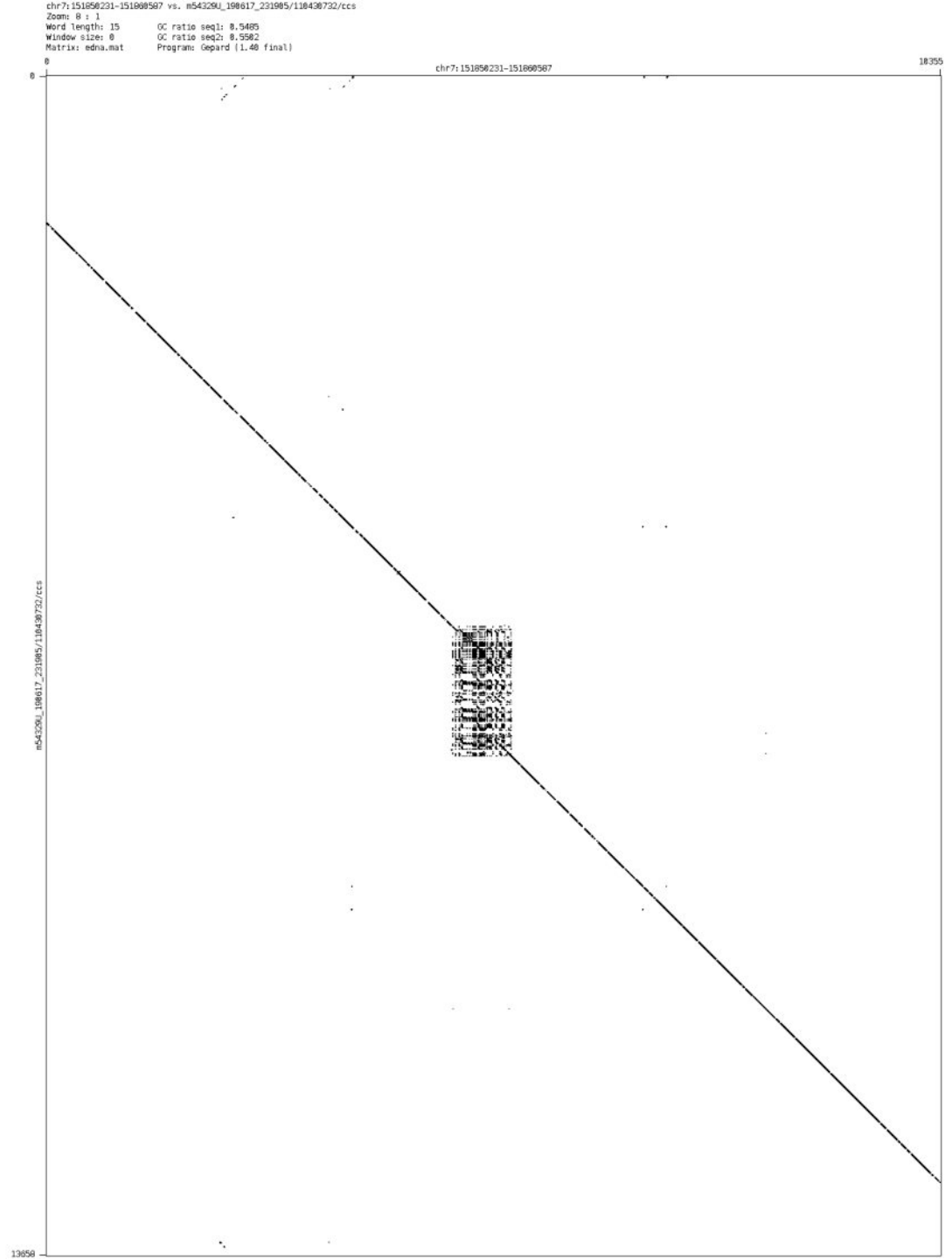
➤ chr7\_138621939\_138622106



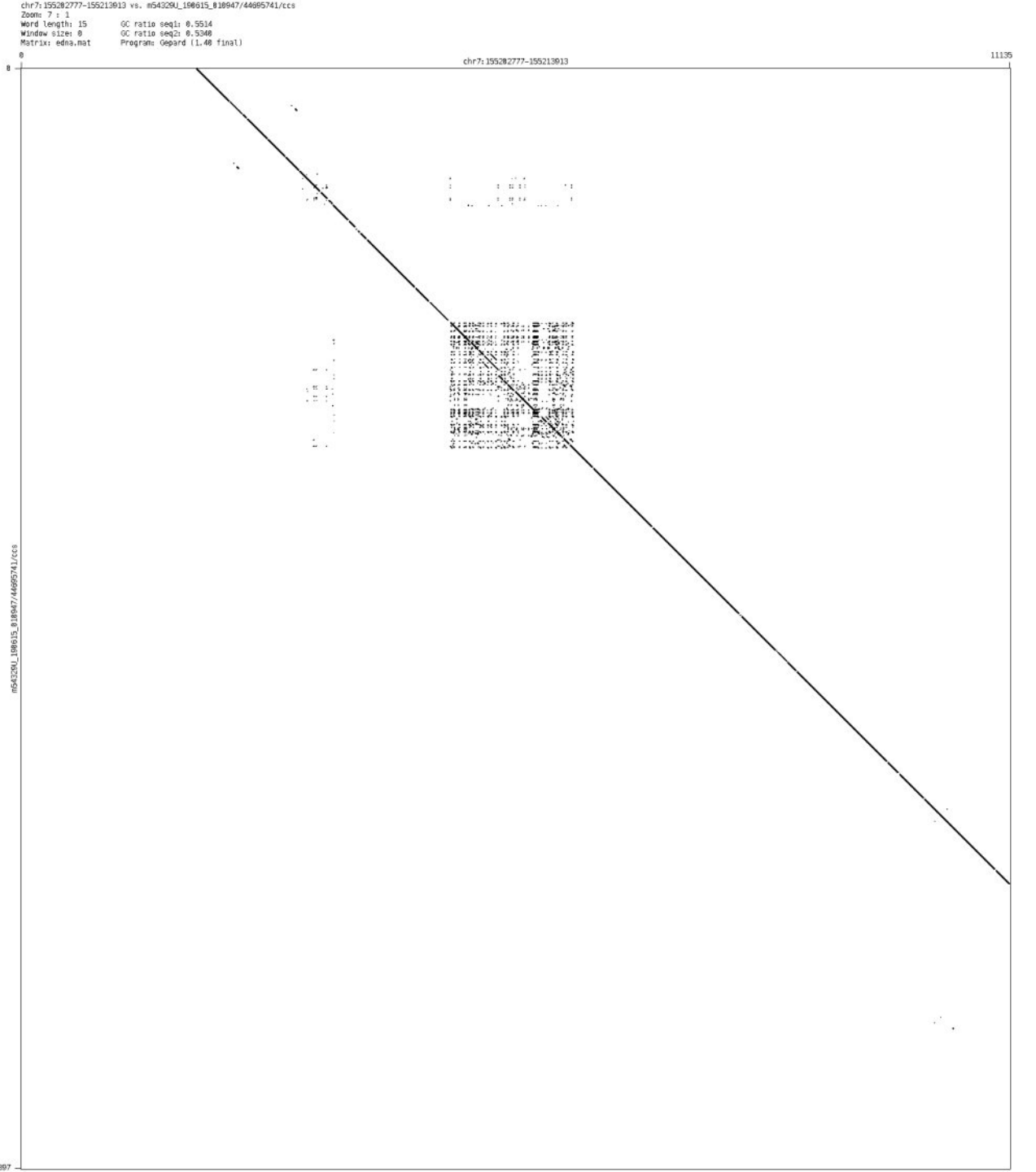
➤ chr7\_150909790\_150910469



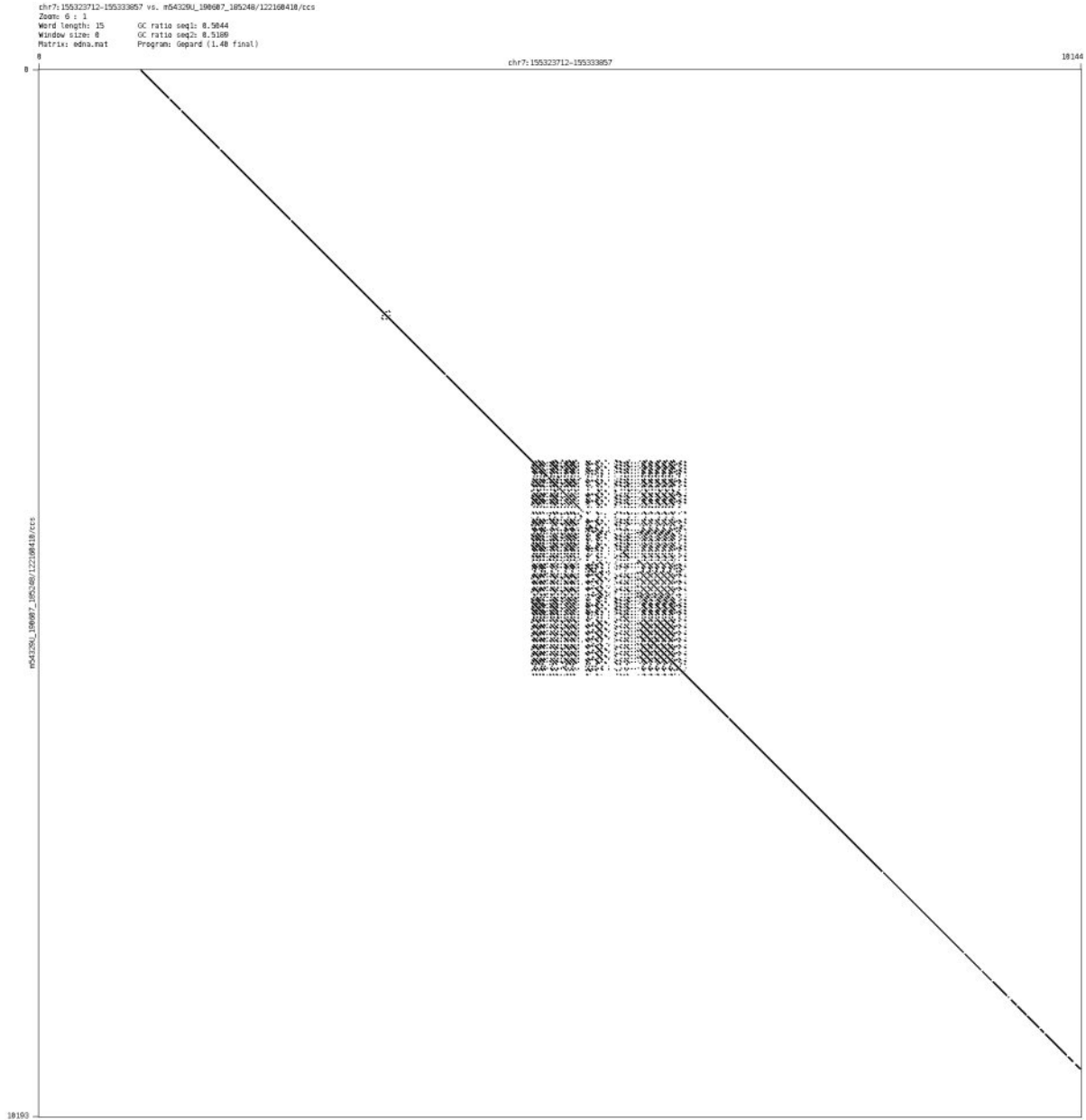
➤ chr7\_151855231\_151855587



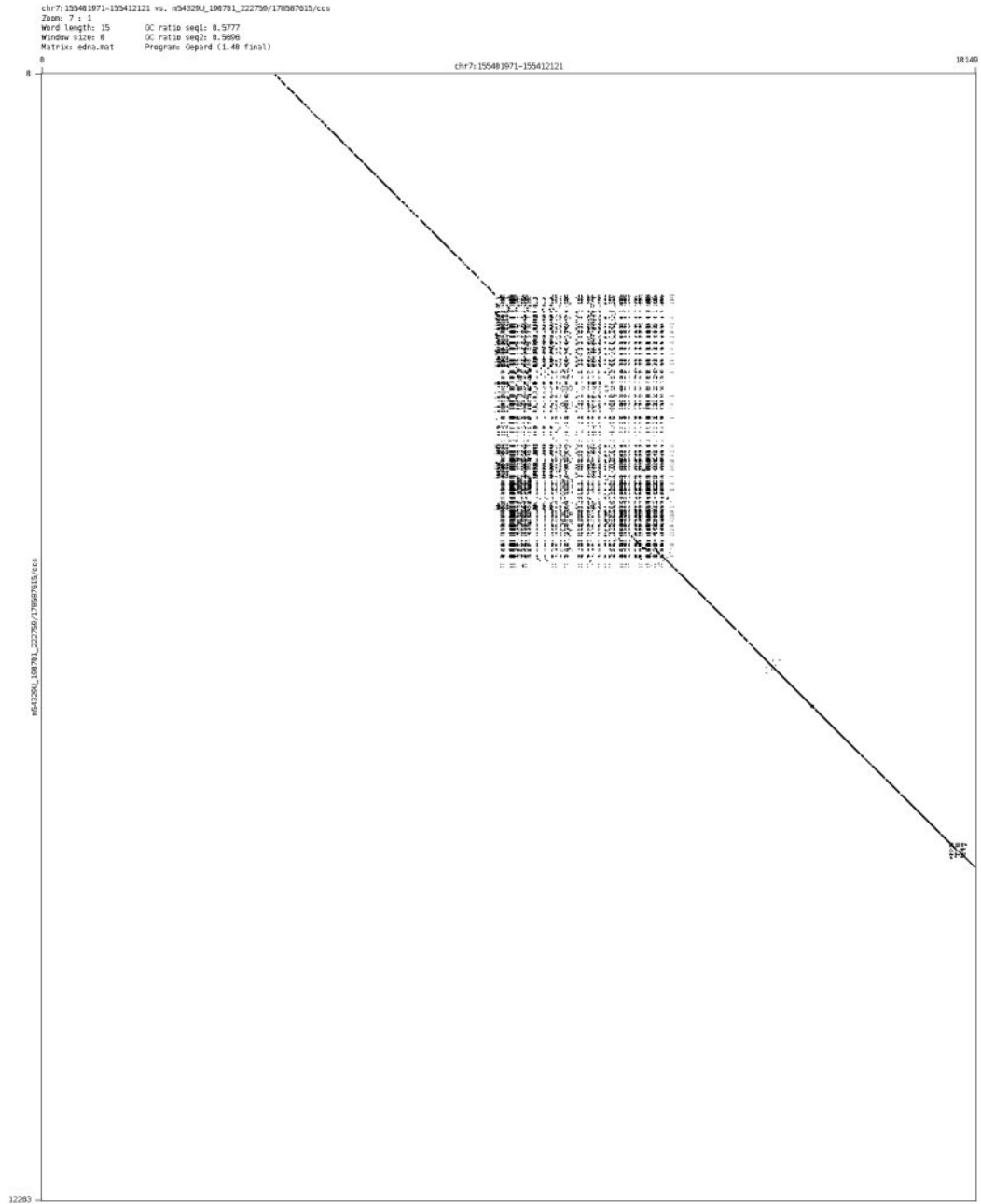
➤ chr7\_155207777\_155208913



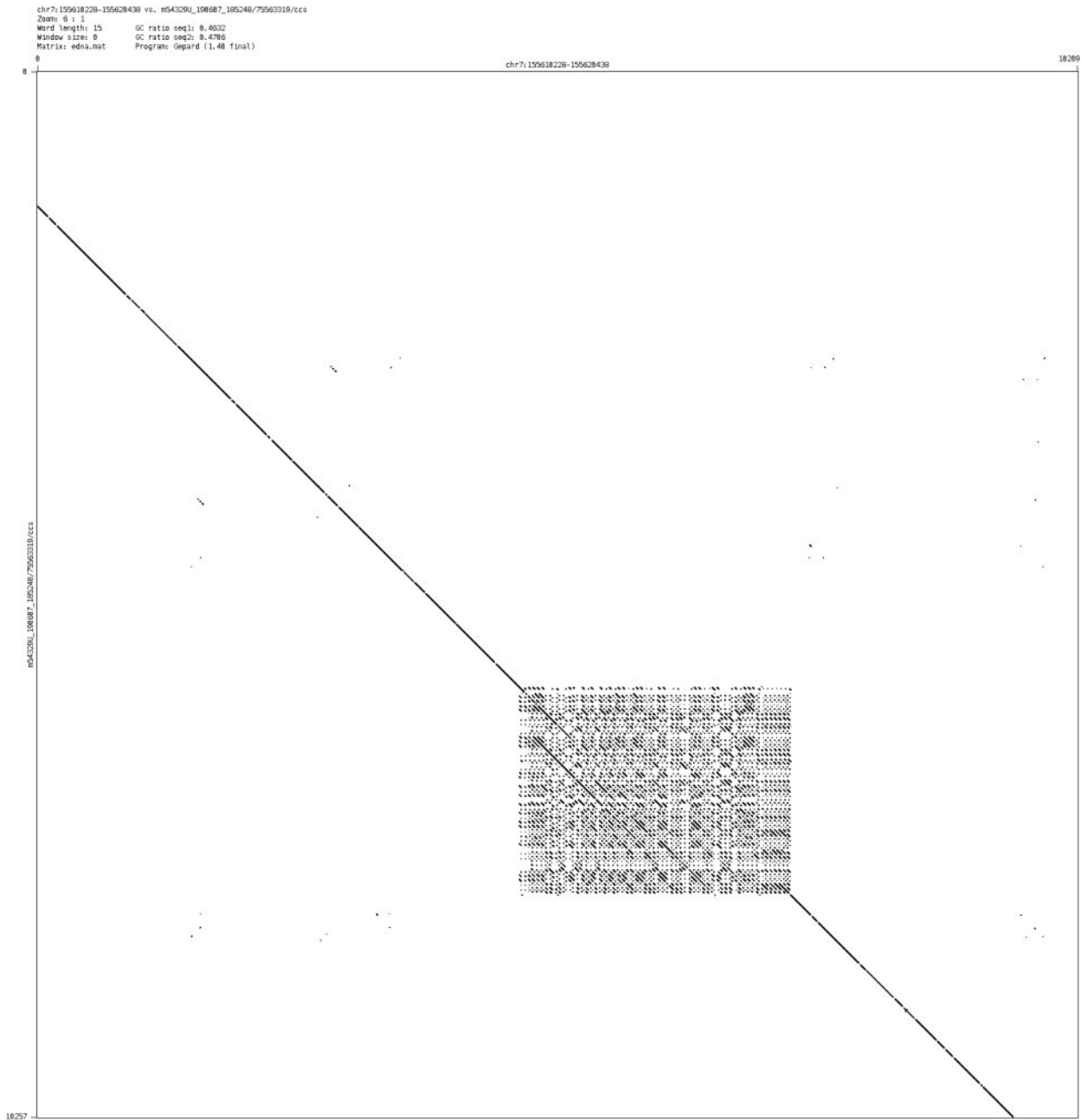
➤ chr7\_155328712\_155328857



➤ chr7\_155406971\_155407121

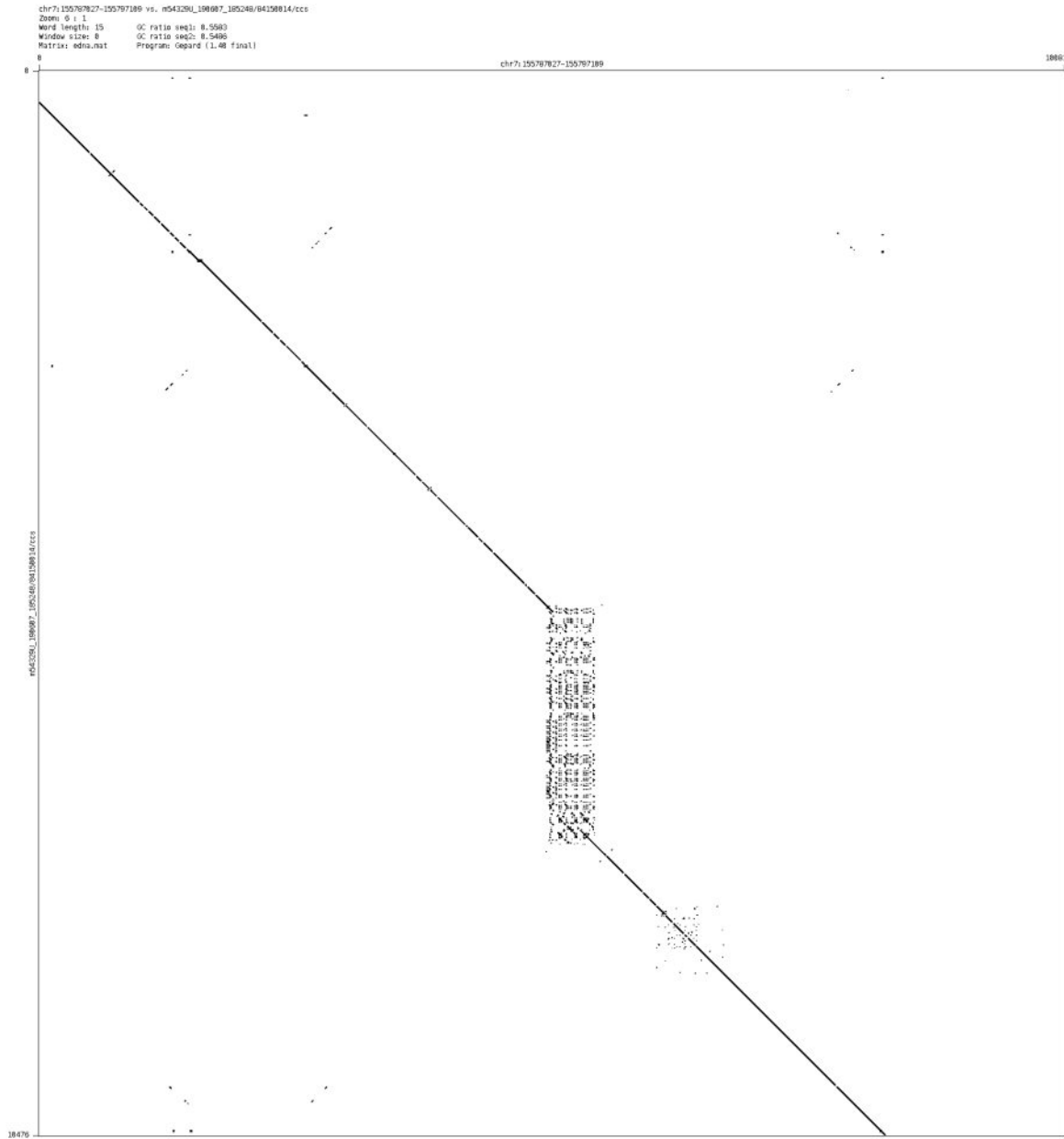


➤ chr7\_155615228\_155615438



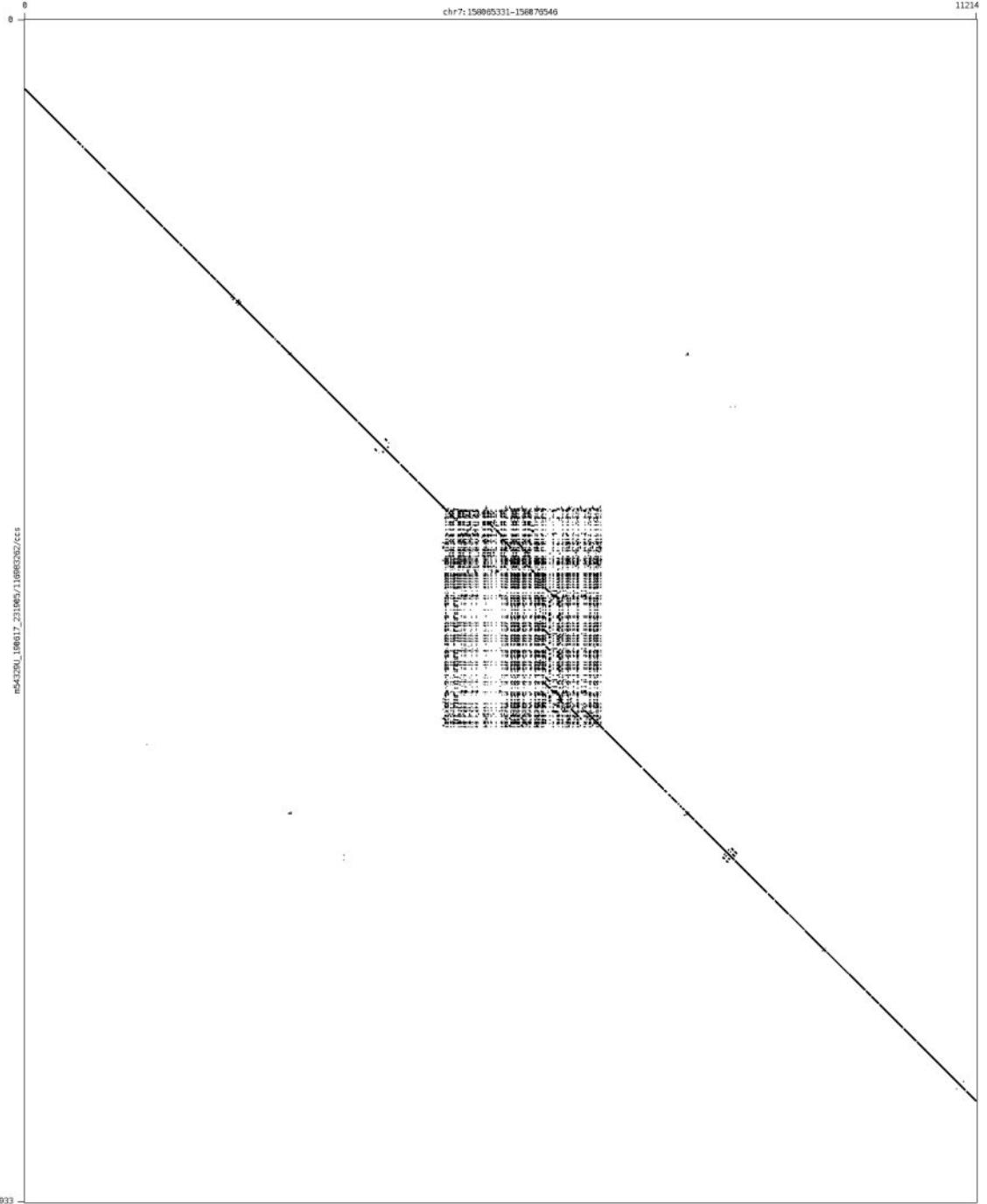


➤ chr7\_155792027\_155792109

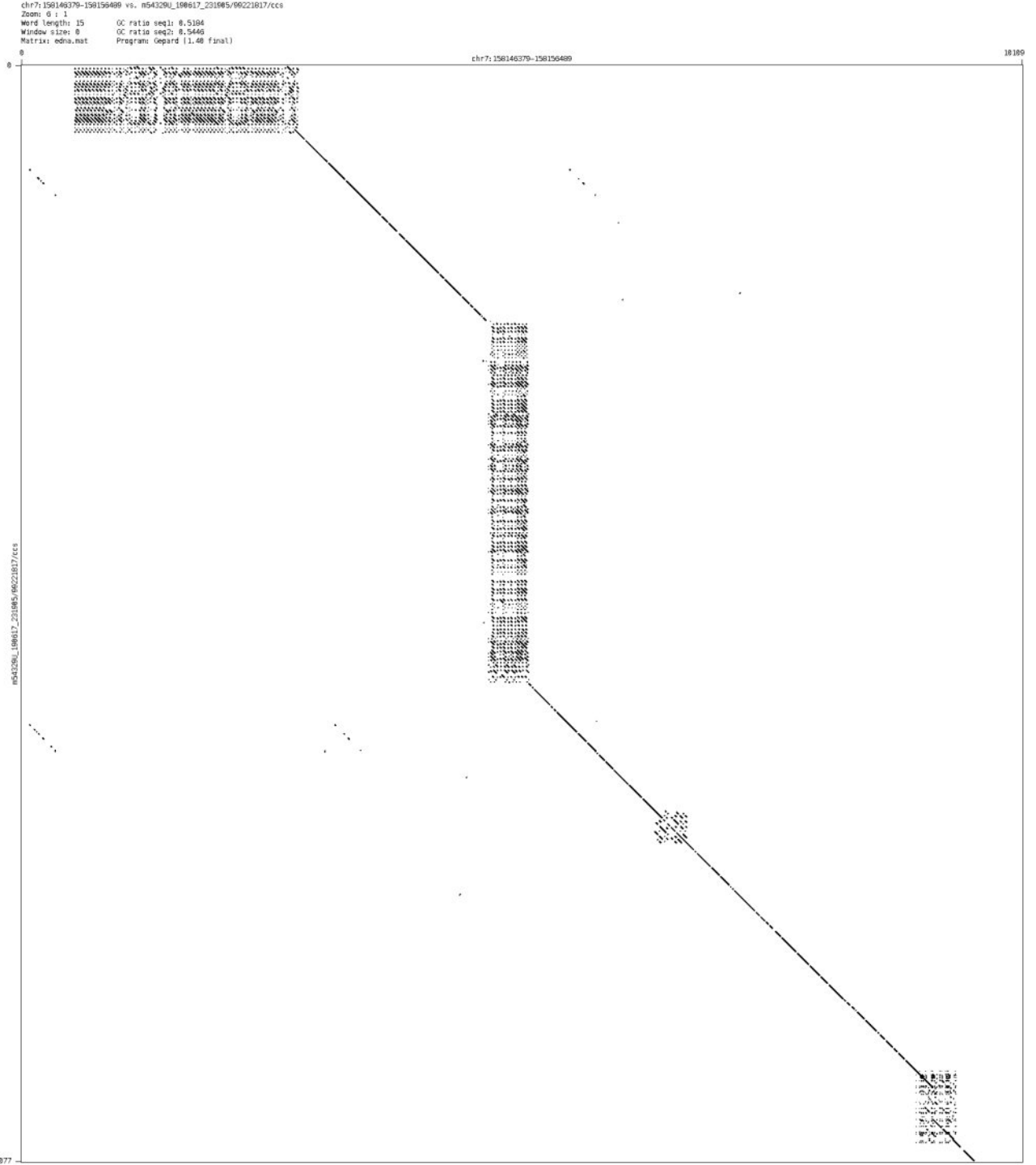


➤ chr7\_158070331\_158071546

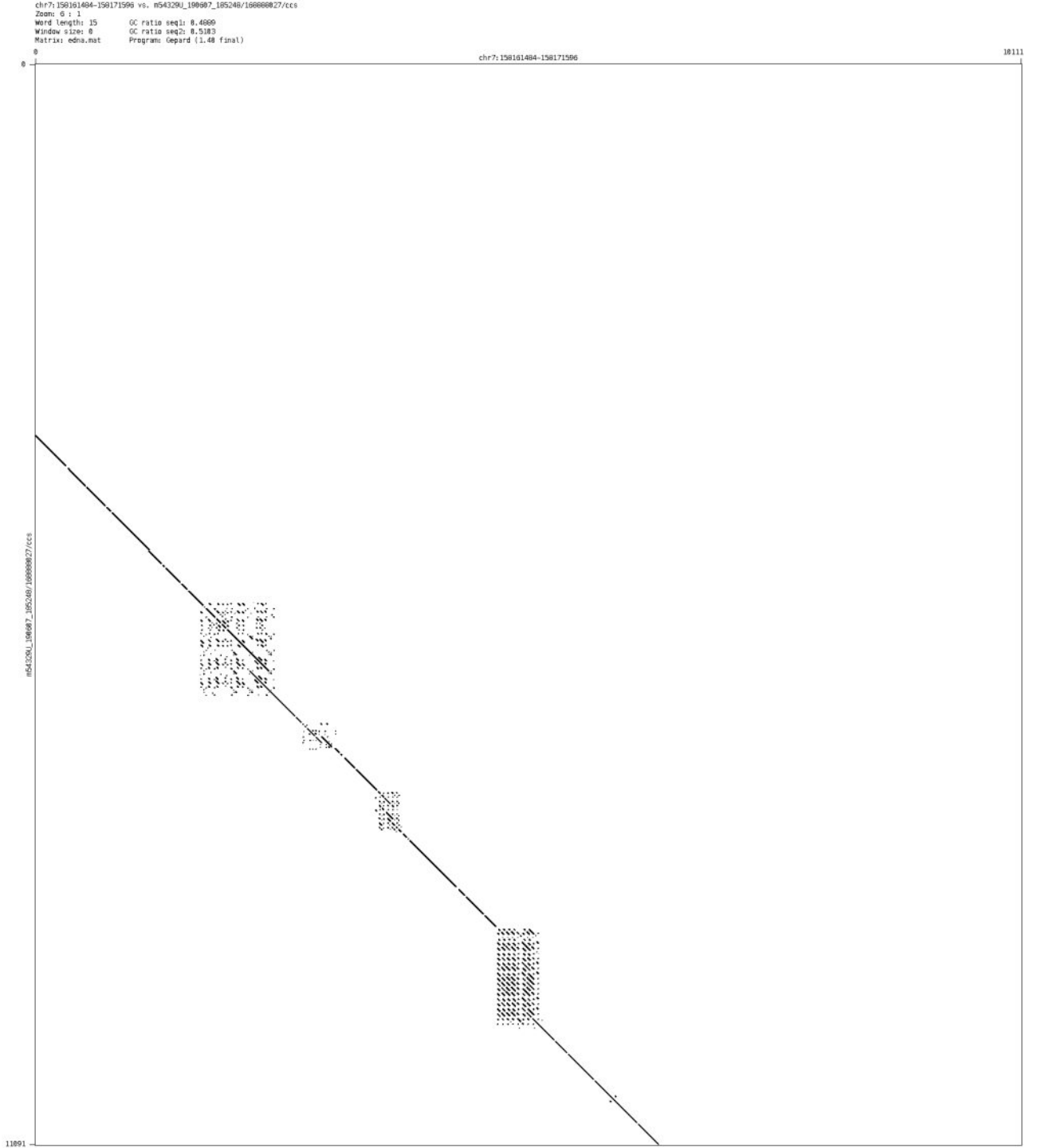
chr7:158065331-158070546 vs. m54329U\_198617\_231985/110993202/ccs  
Zoom: 8 : 1  
Word length: 15  
Window size: 0  
Matrix: edna.mat  
OC ratio seq1: 8.5044  
OC ratio seq2: 8.5041  
Program: Gepard (1.48 final)



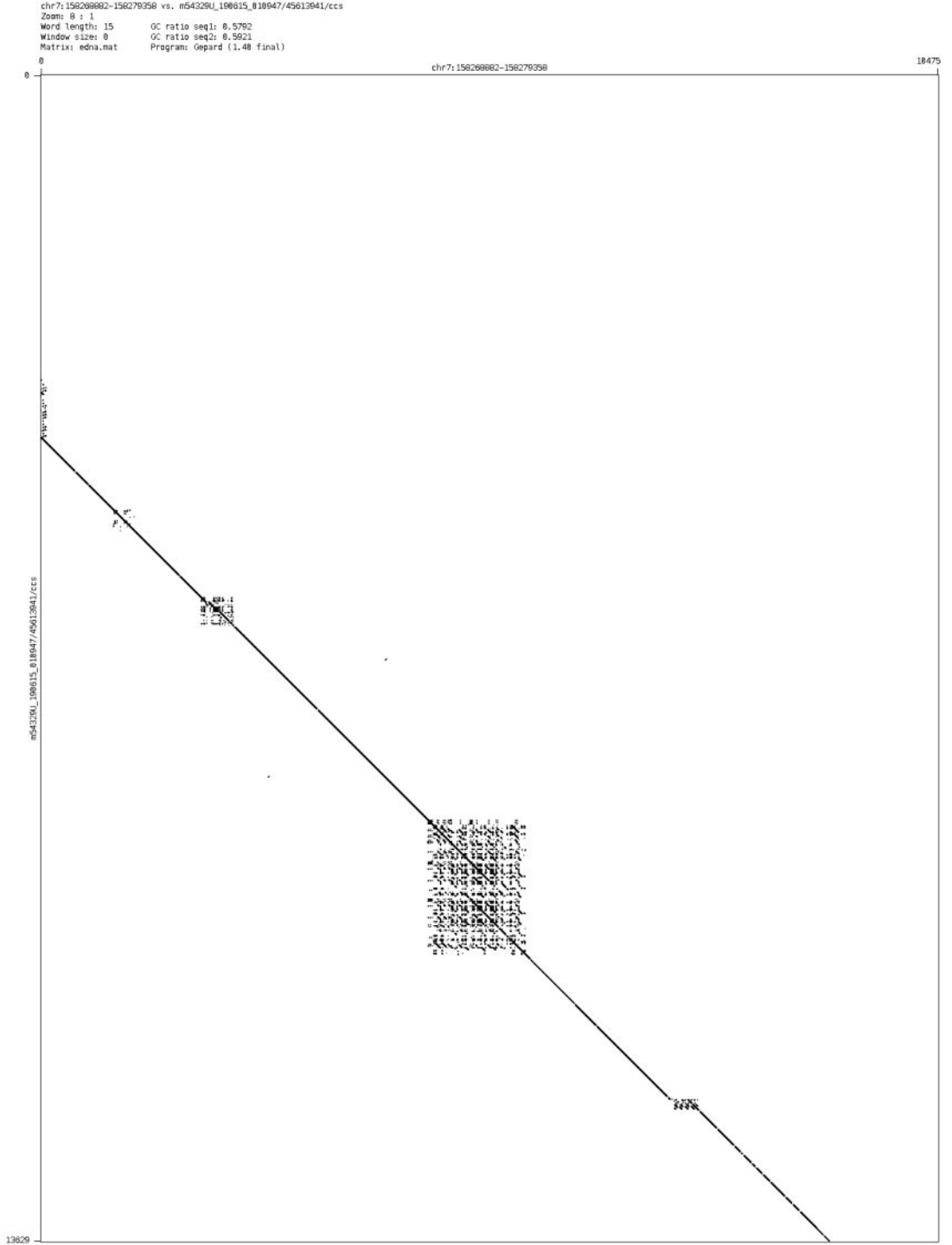
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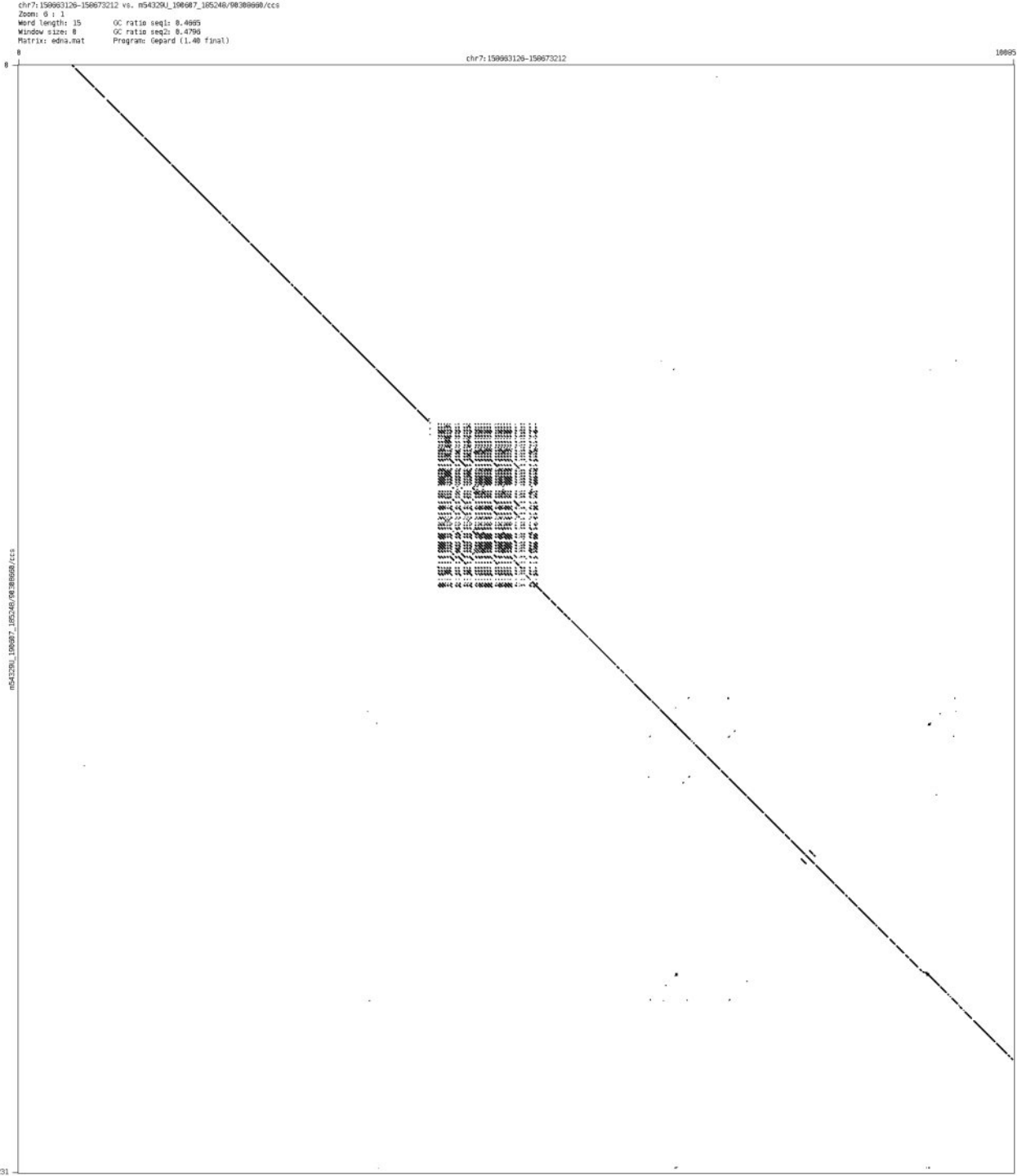
➤ chr7\_158166484\_158166596



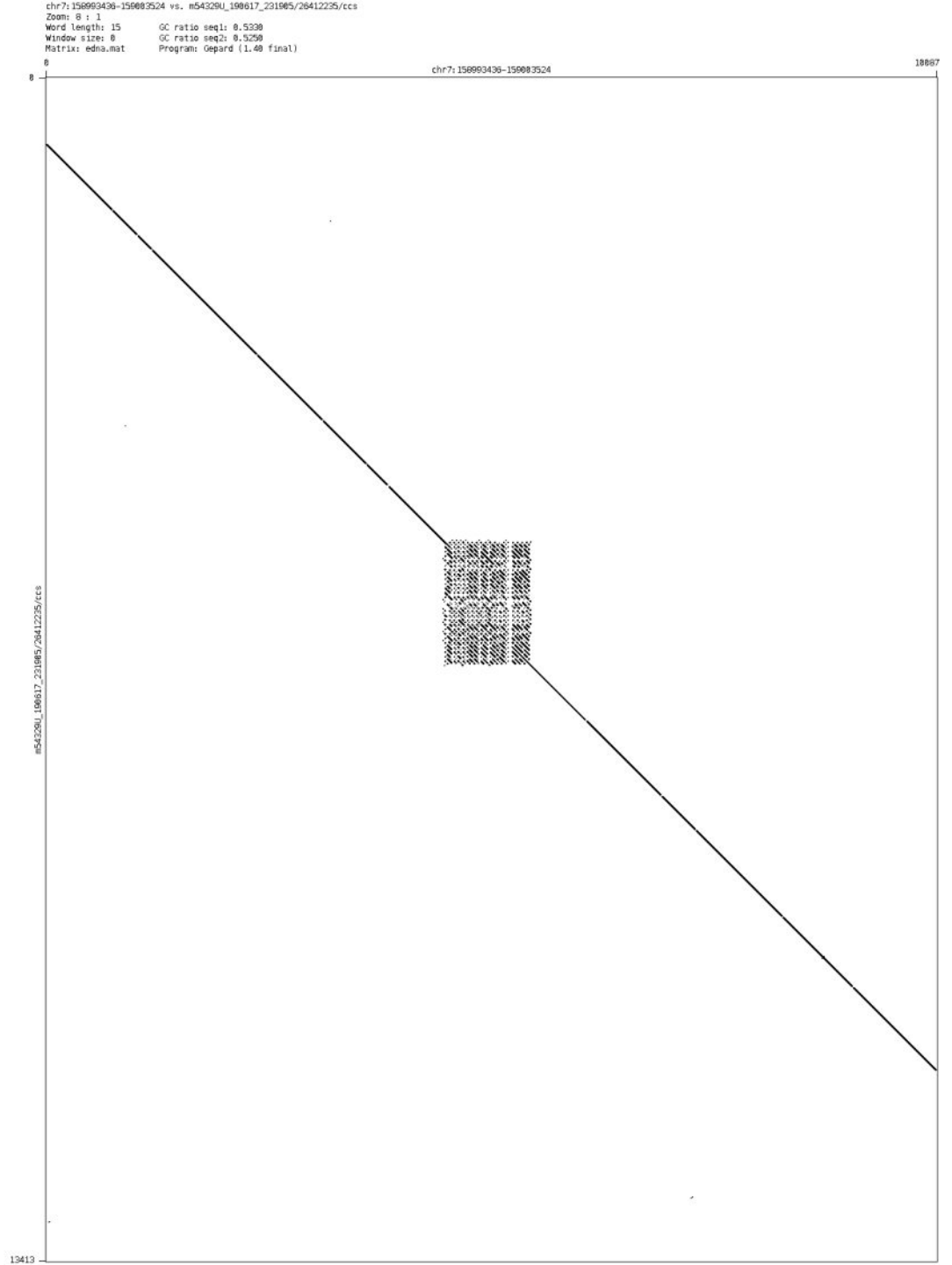
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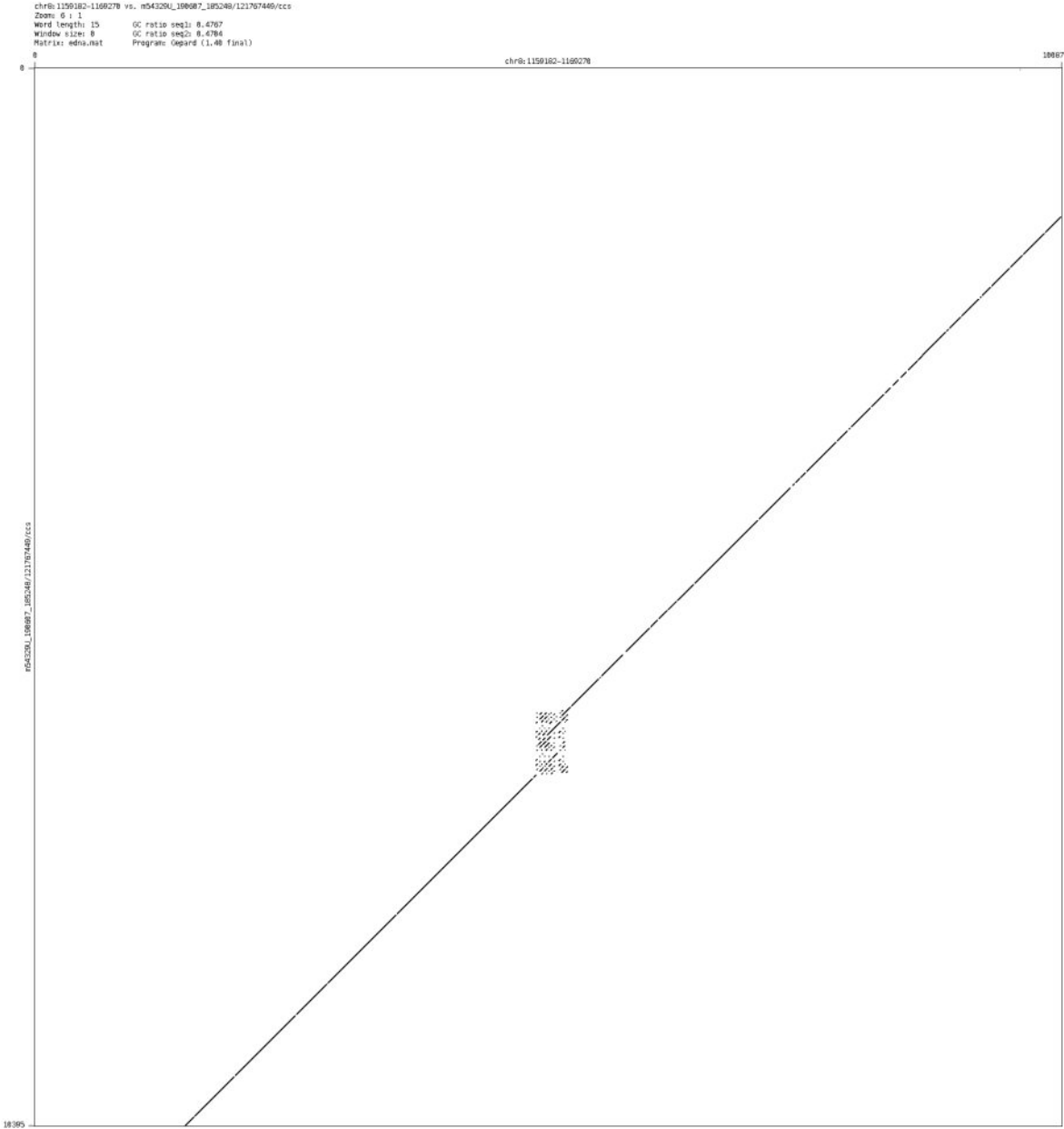
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➤ chr7\_158998436\_158998524

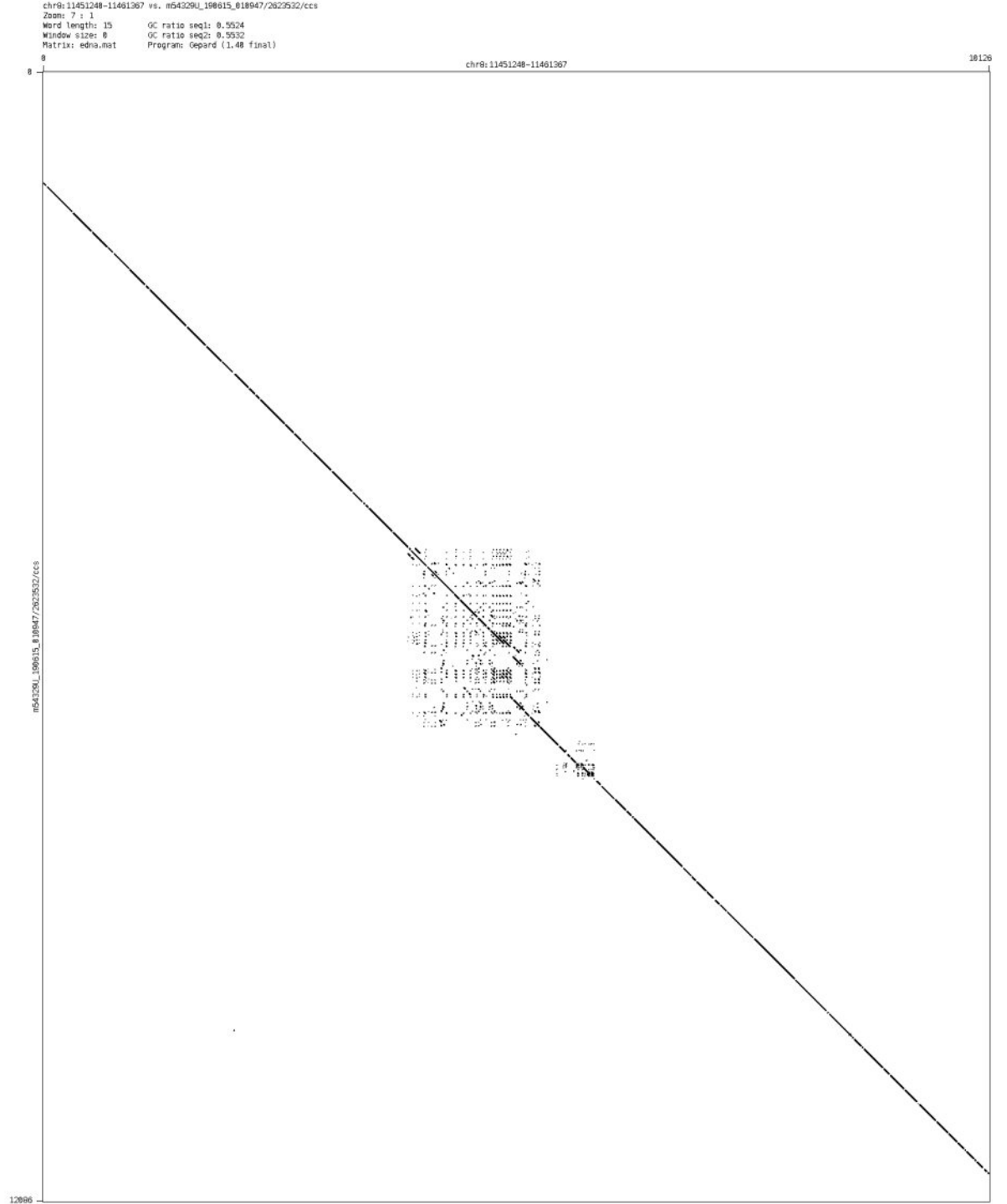


➤ chr8\_1164182\_1164270

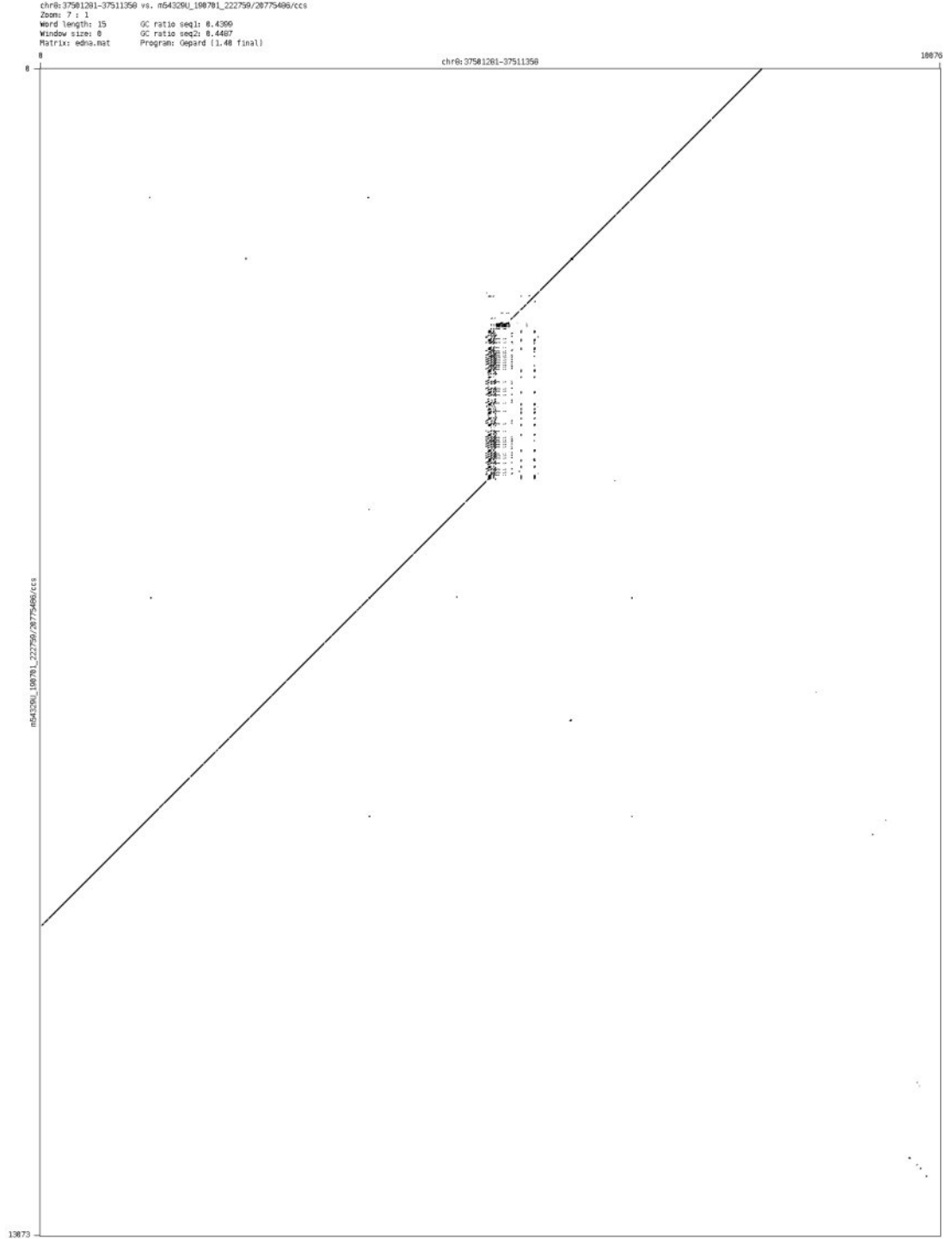




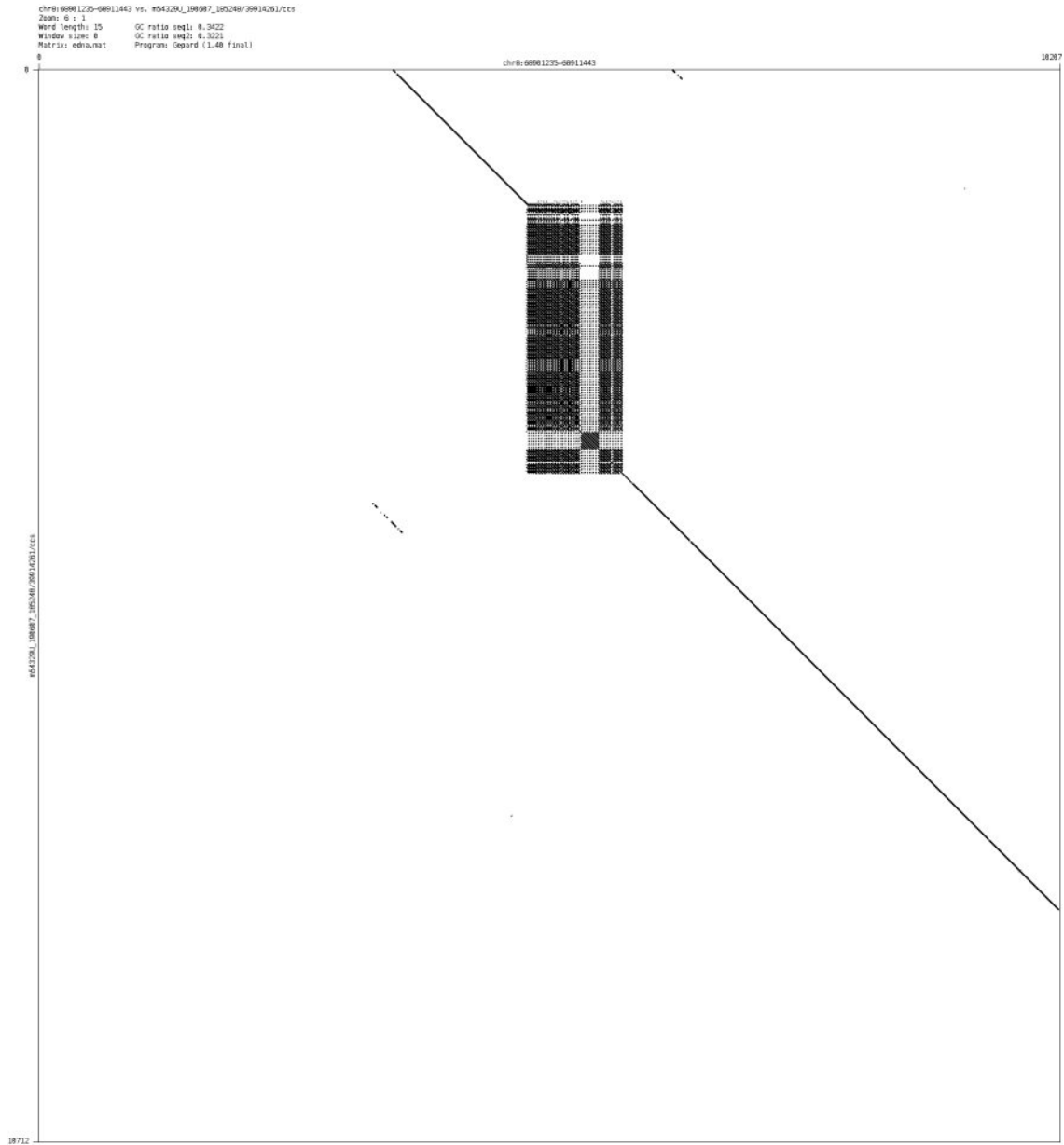
➤ chr8\_11456240\_11456367



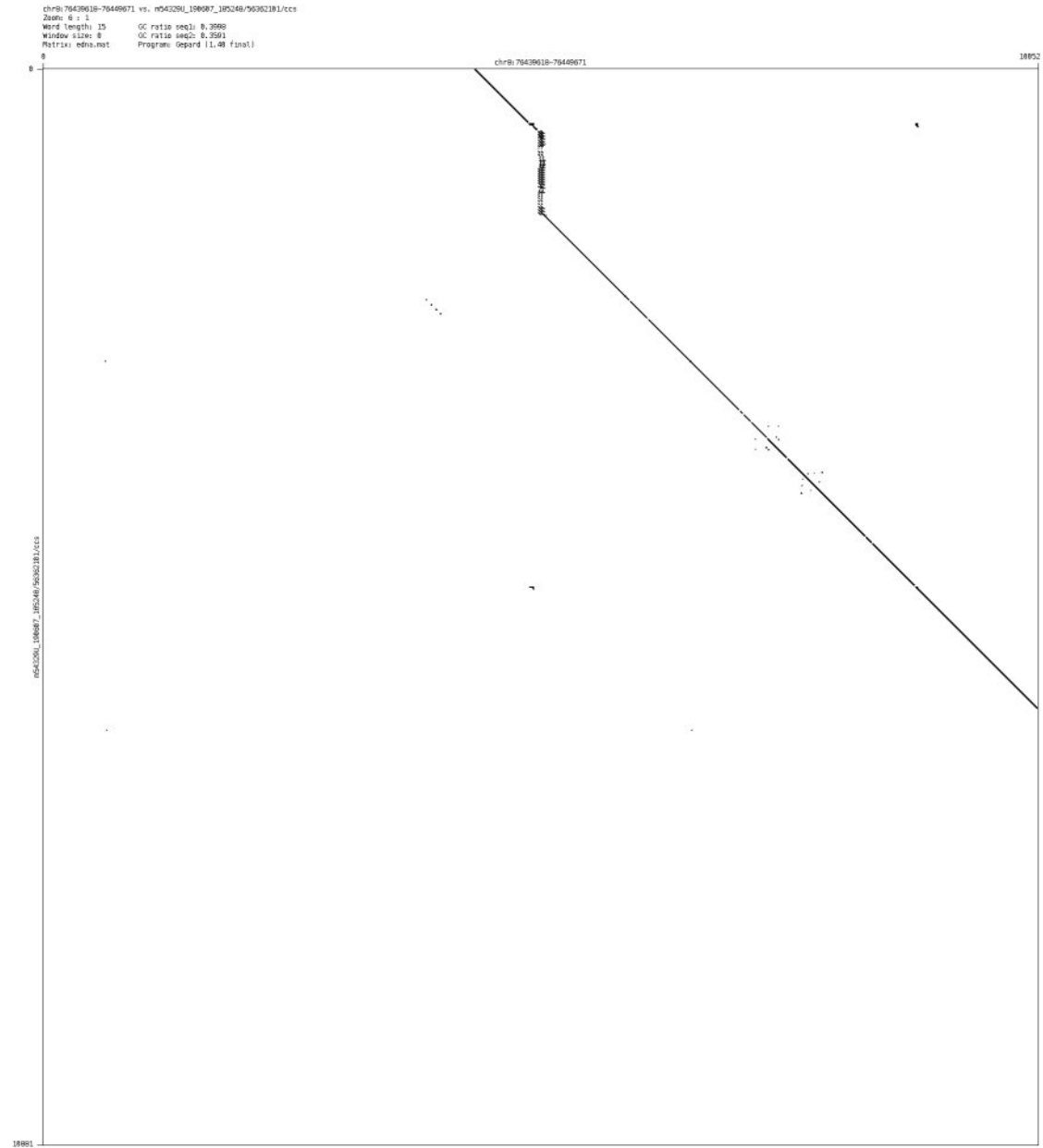
➤ chr8\_37506281\_37506358



➤ chr8\_68906235\_68906443



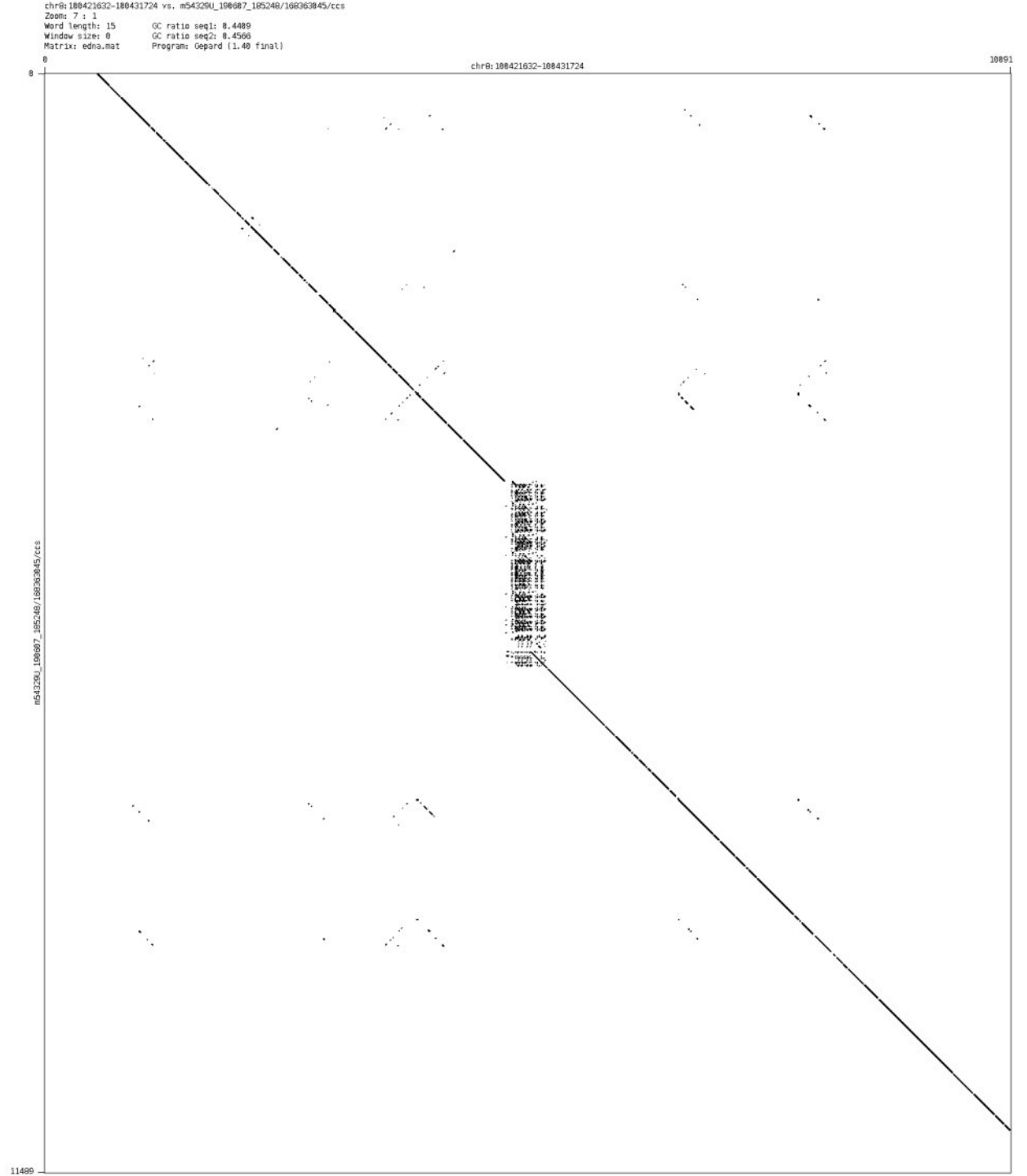
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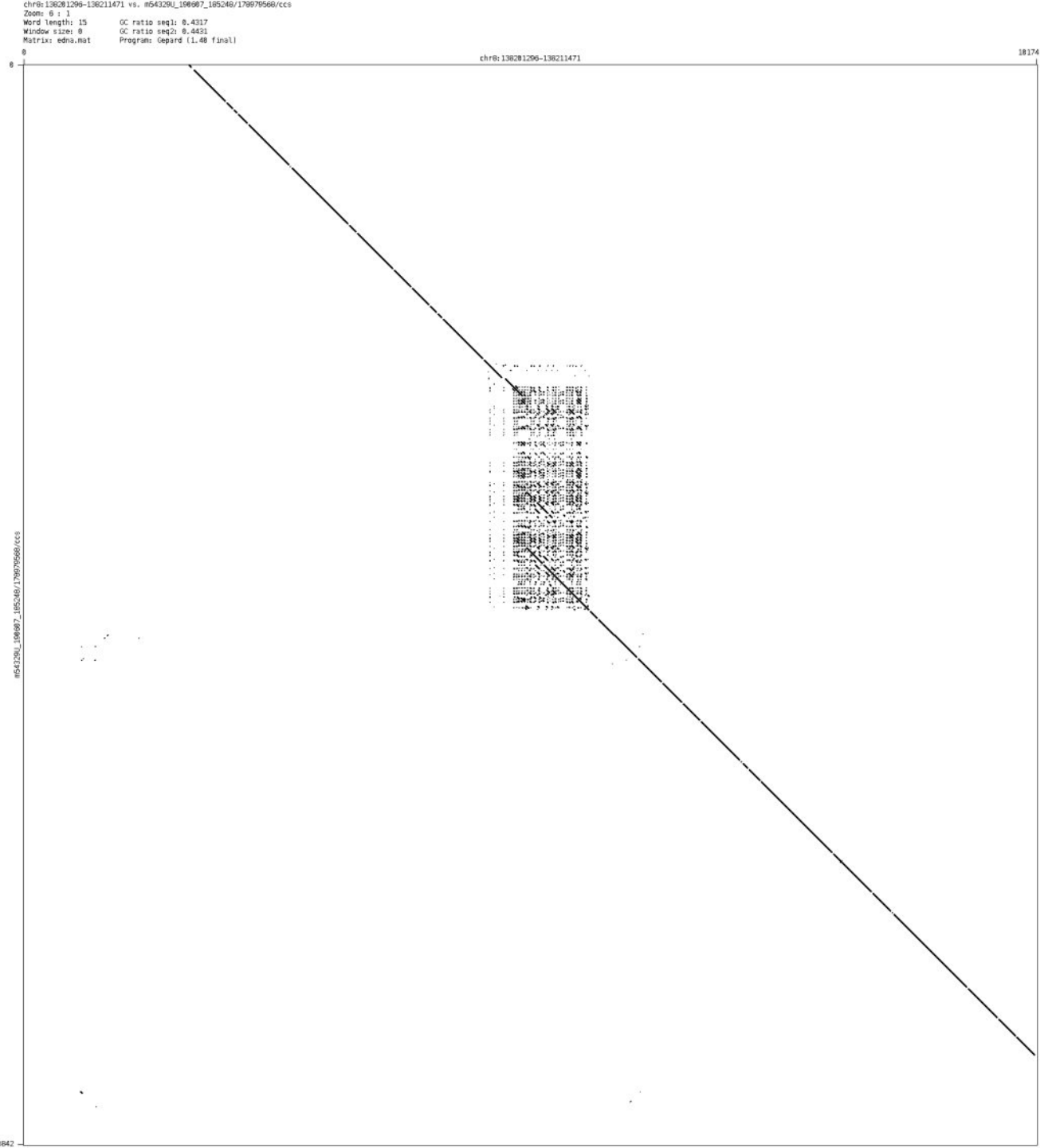
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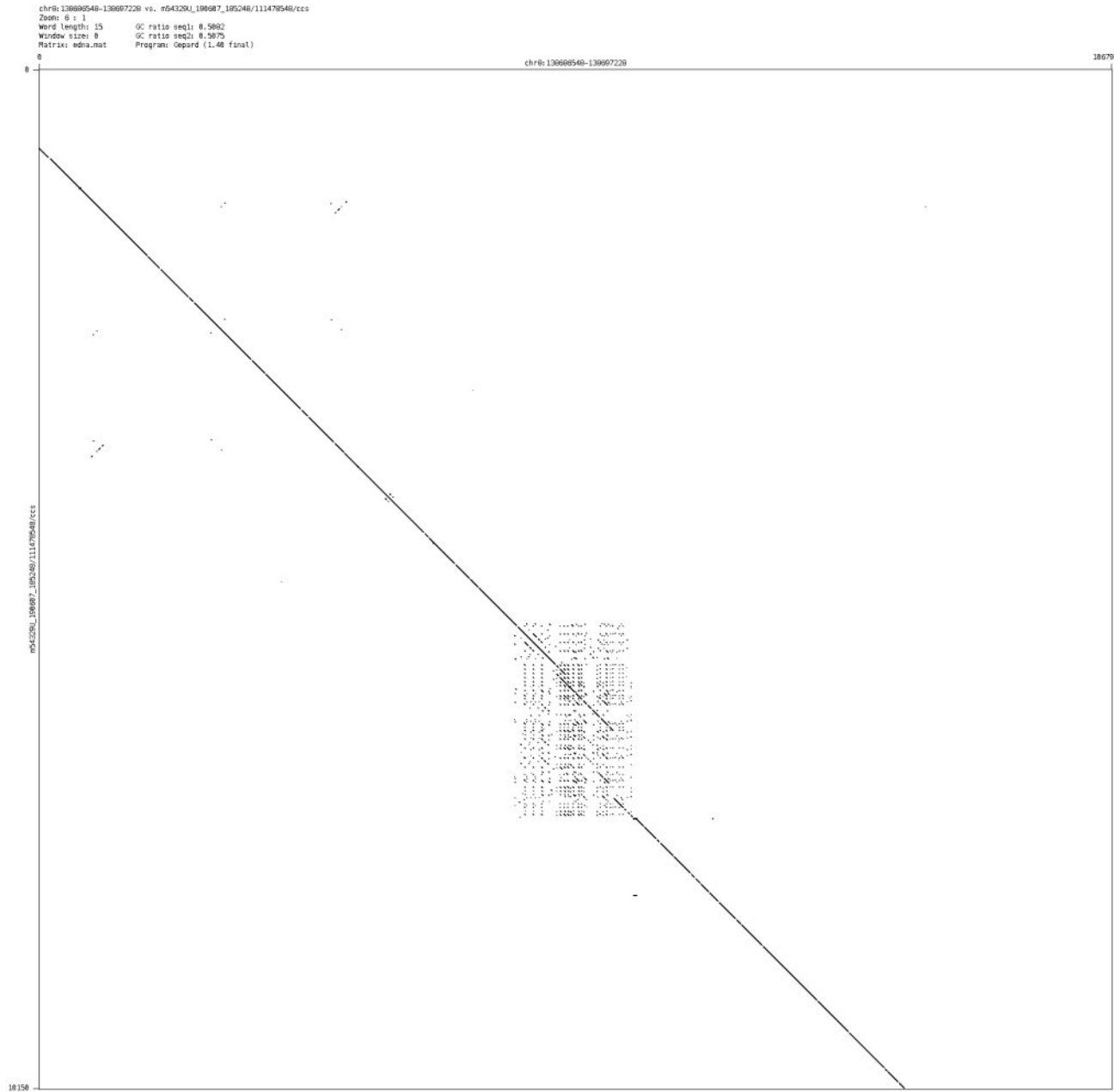
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➤ chr8\_138206296\_138206471

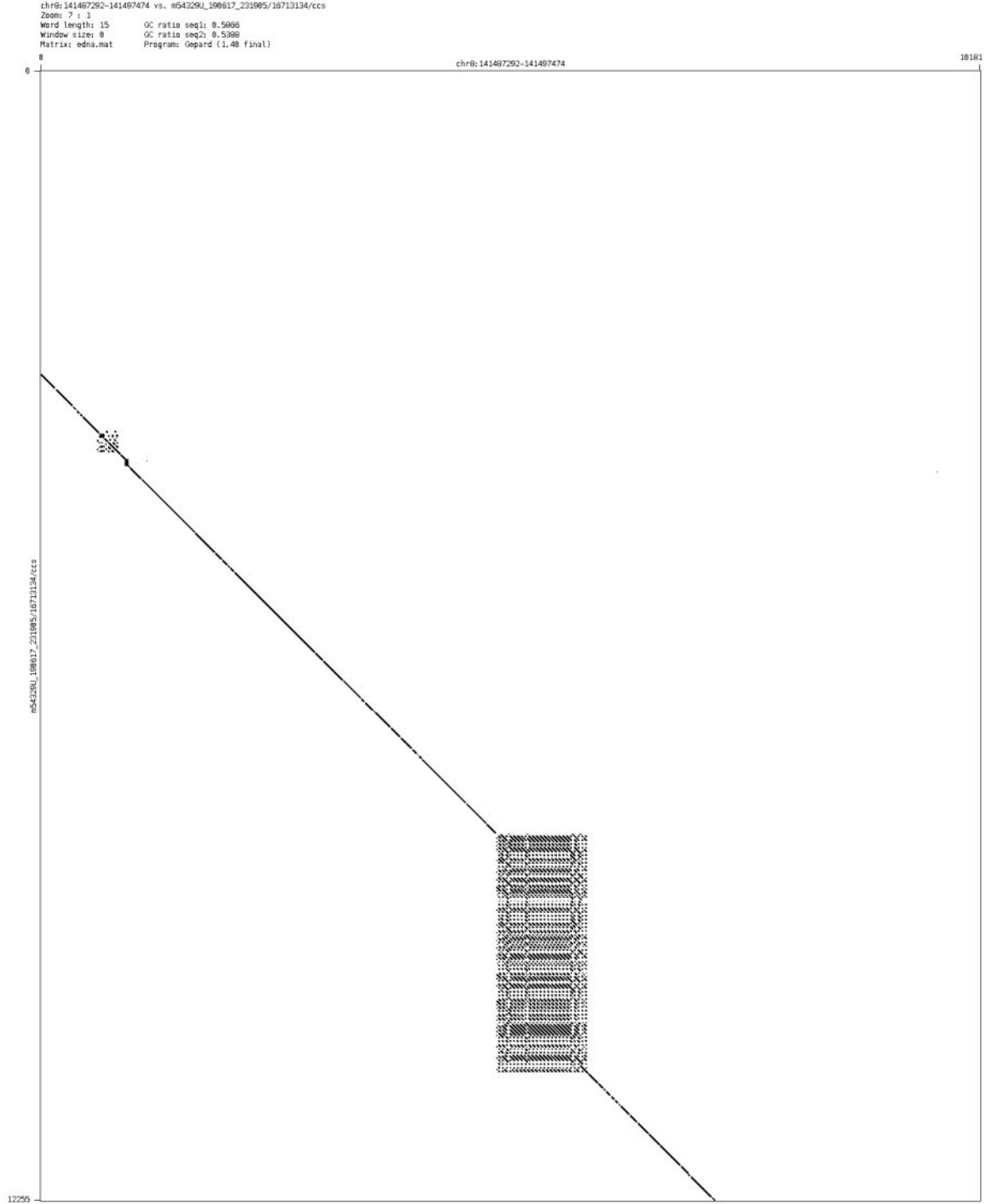


➤ chr8\_138691548\_138692228

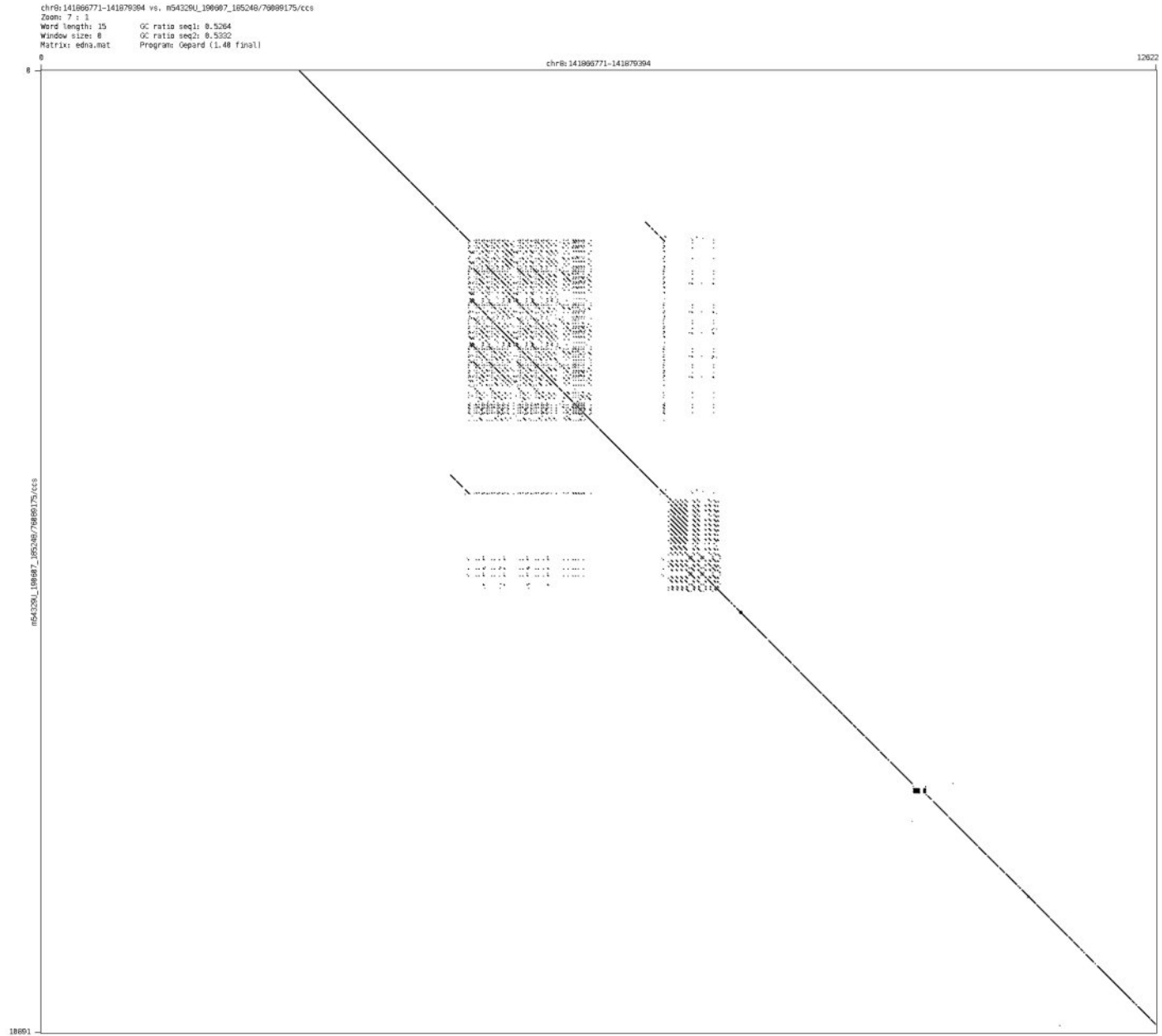




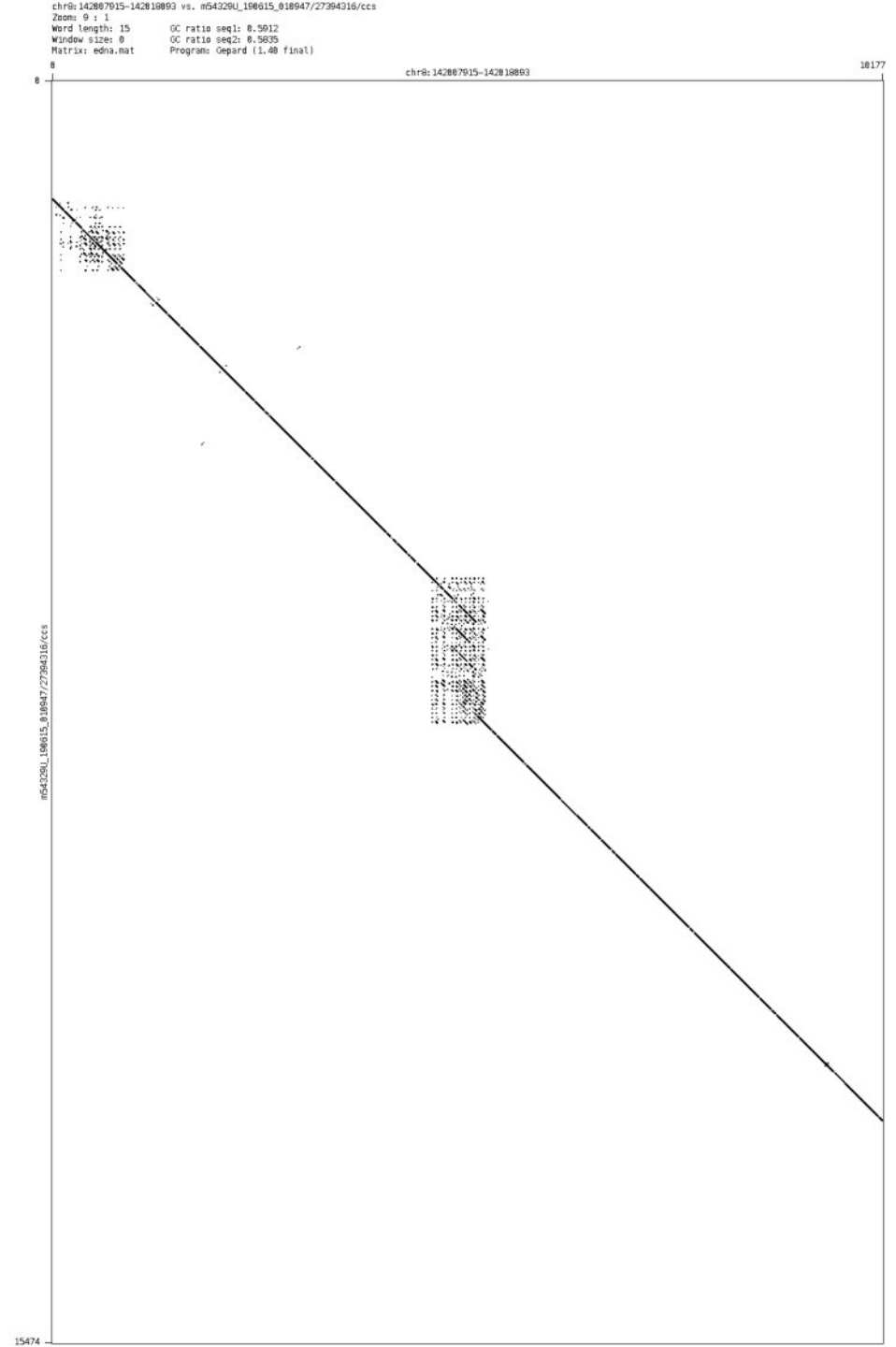
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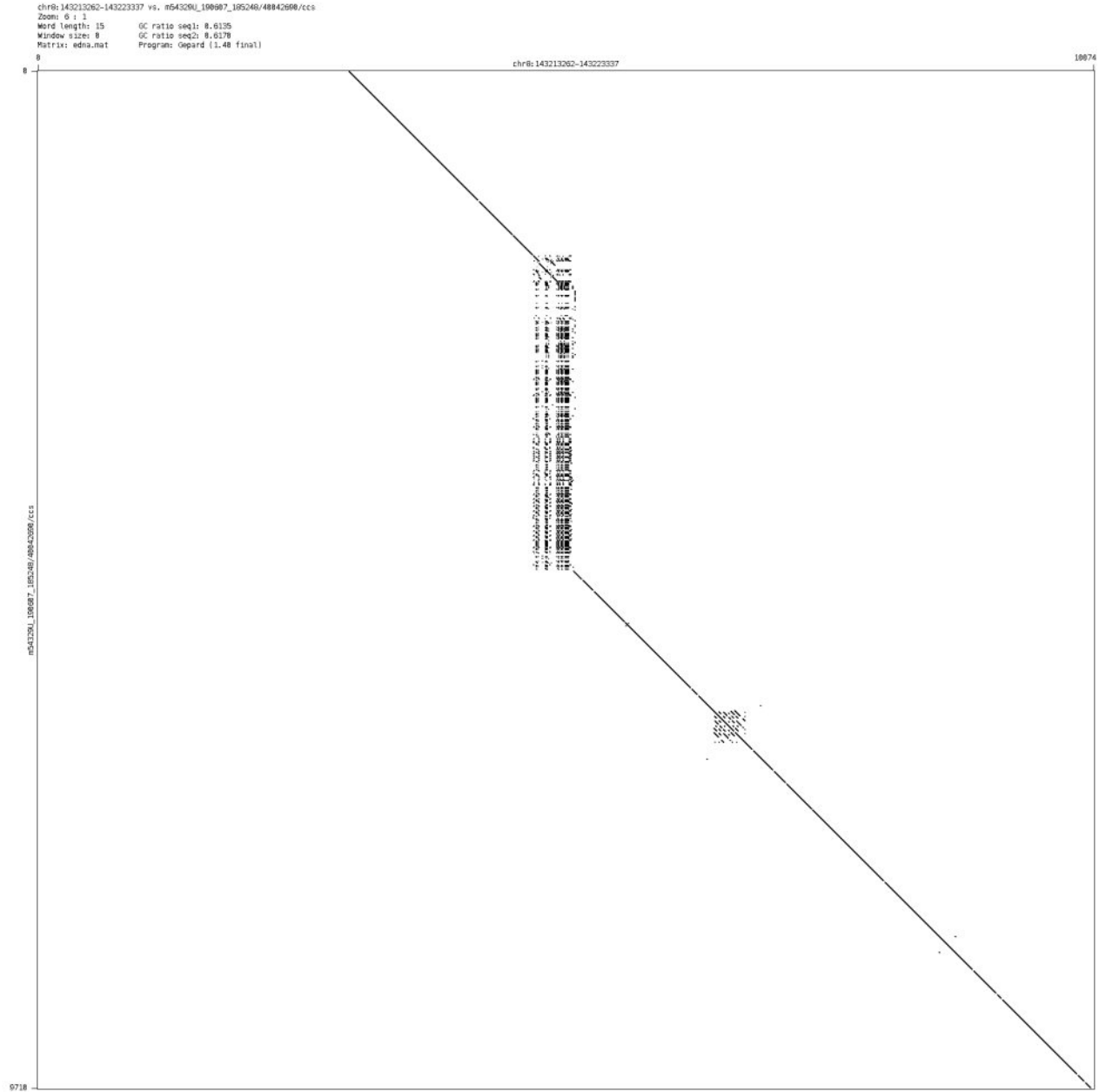
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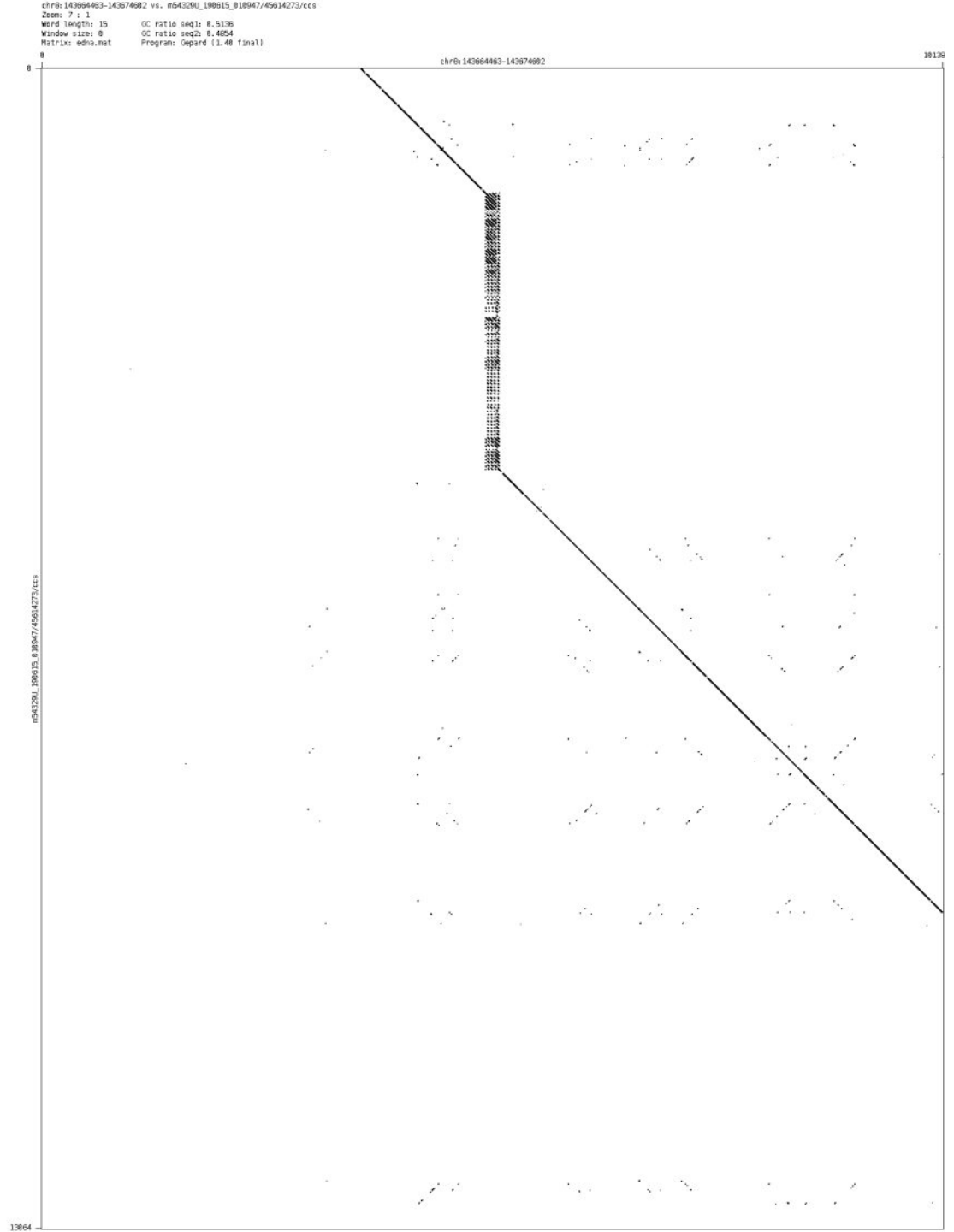
➤ chr8\_142012915\_142013093



➤ chr8\_143218262\_143218337

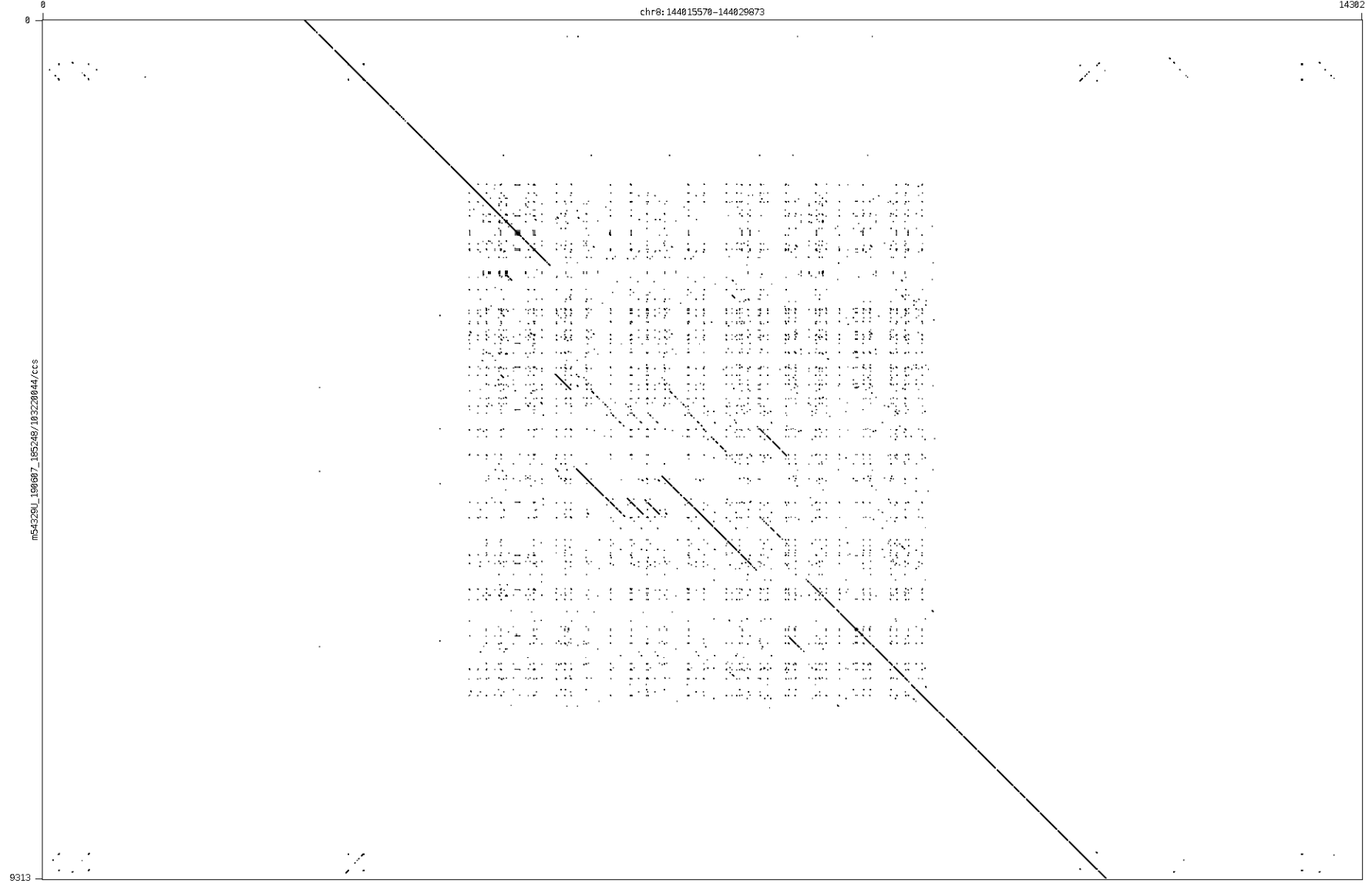


➤ chr8\_143669463\_143669602

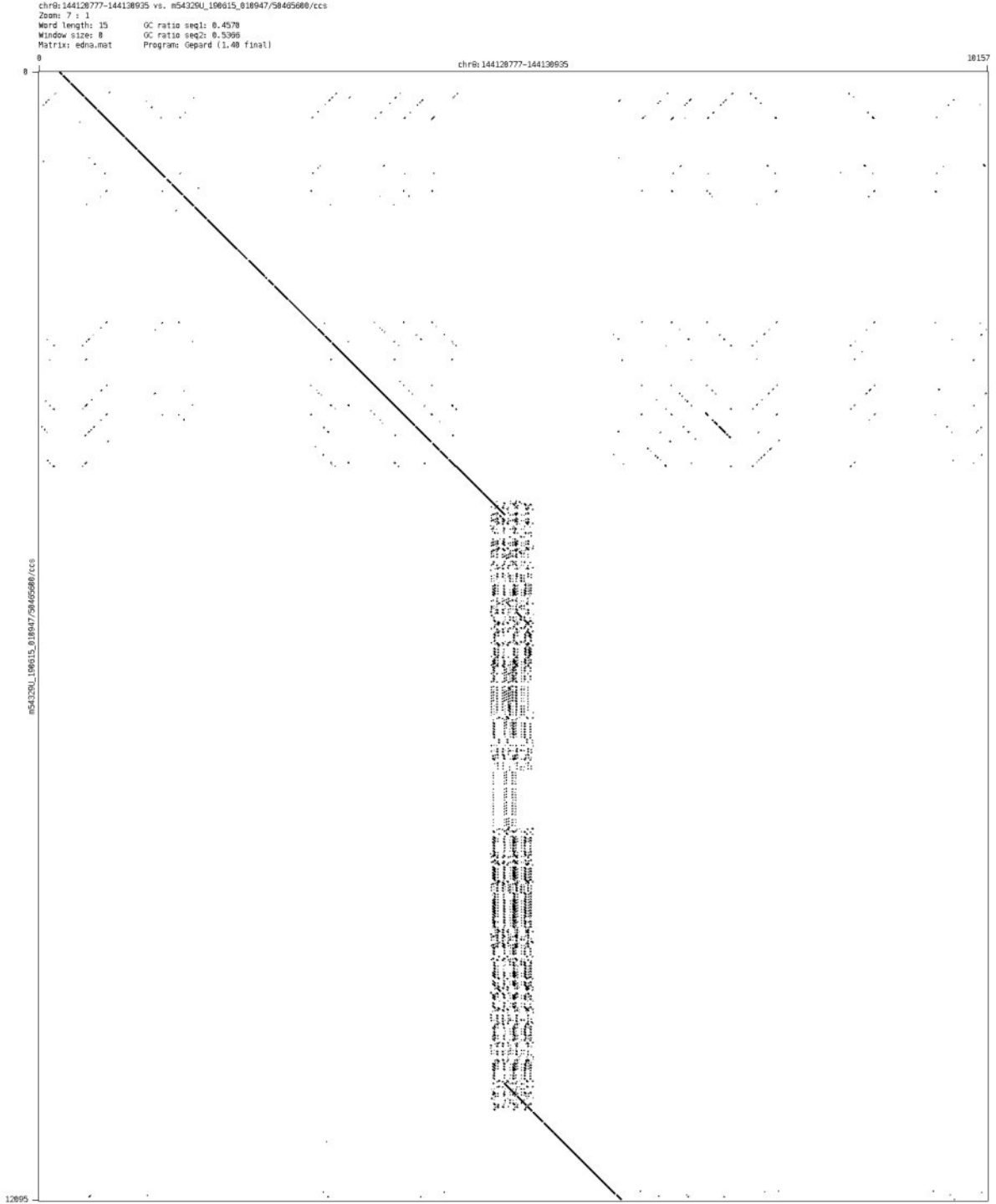


➤ chr8\_144020570\_144024873

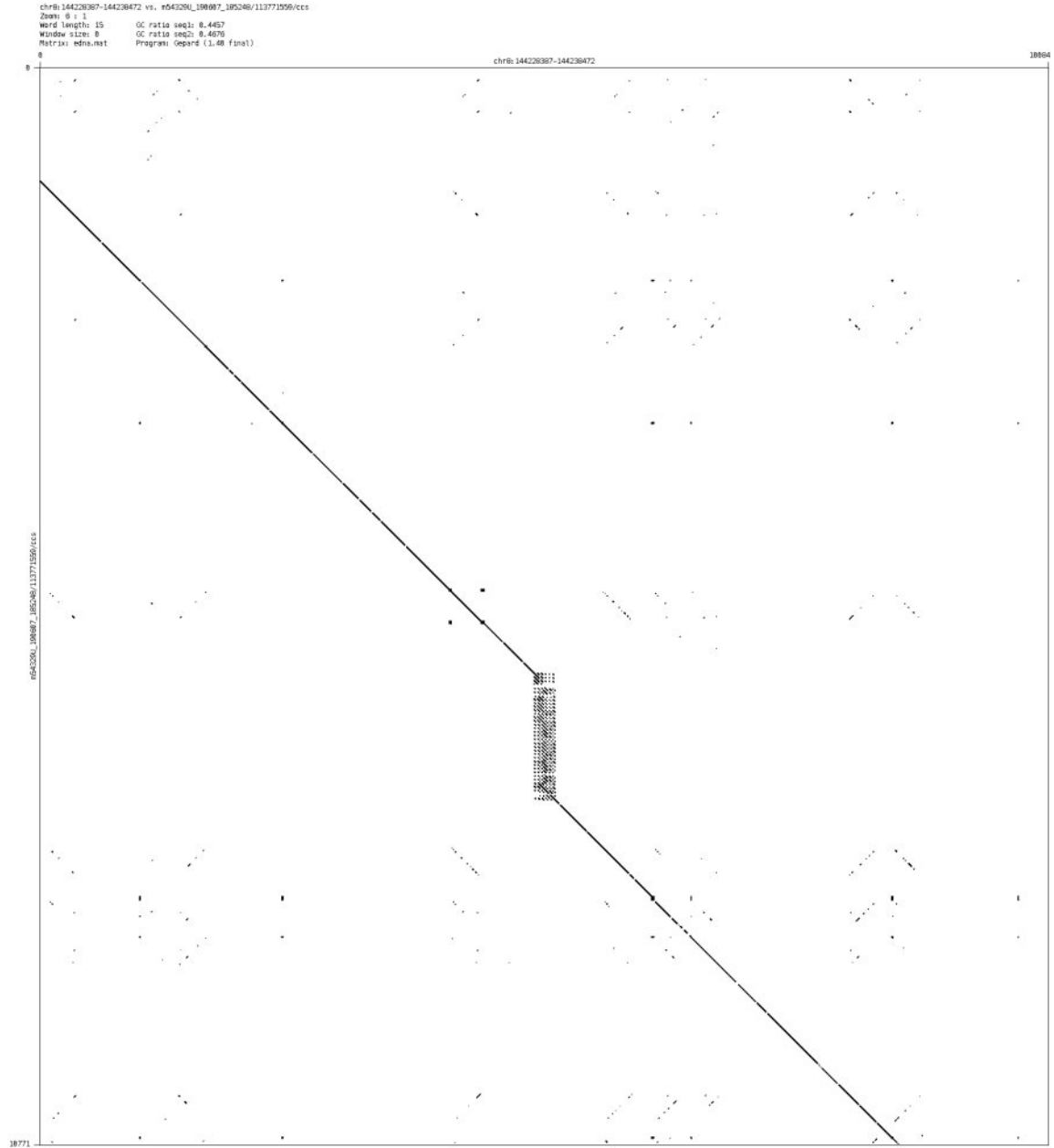
chr8:144015570-144029873 vs. m54329U\_190607\_185248/103220044/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.5043  
Window size: 0 GC ratio seq2: 0.5400  
Matrix: edna.mat Program: Gepard (1.40 final)



➤ chr8\_144125777\_144125935



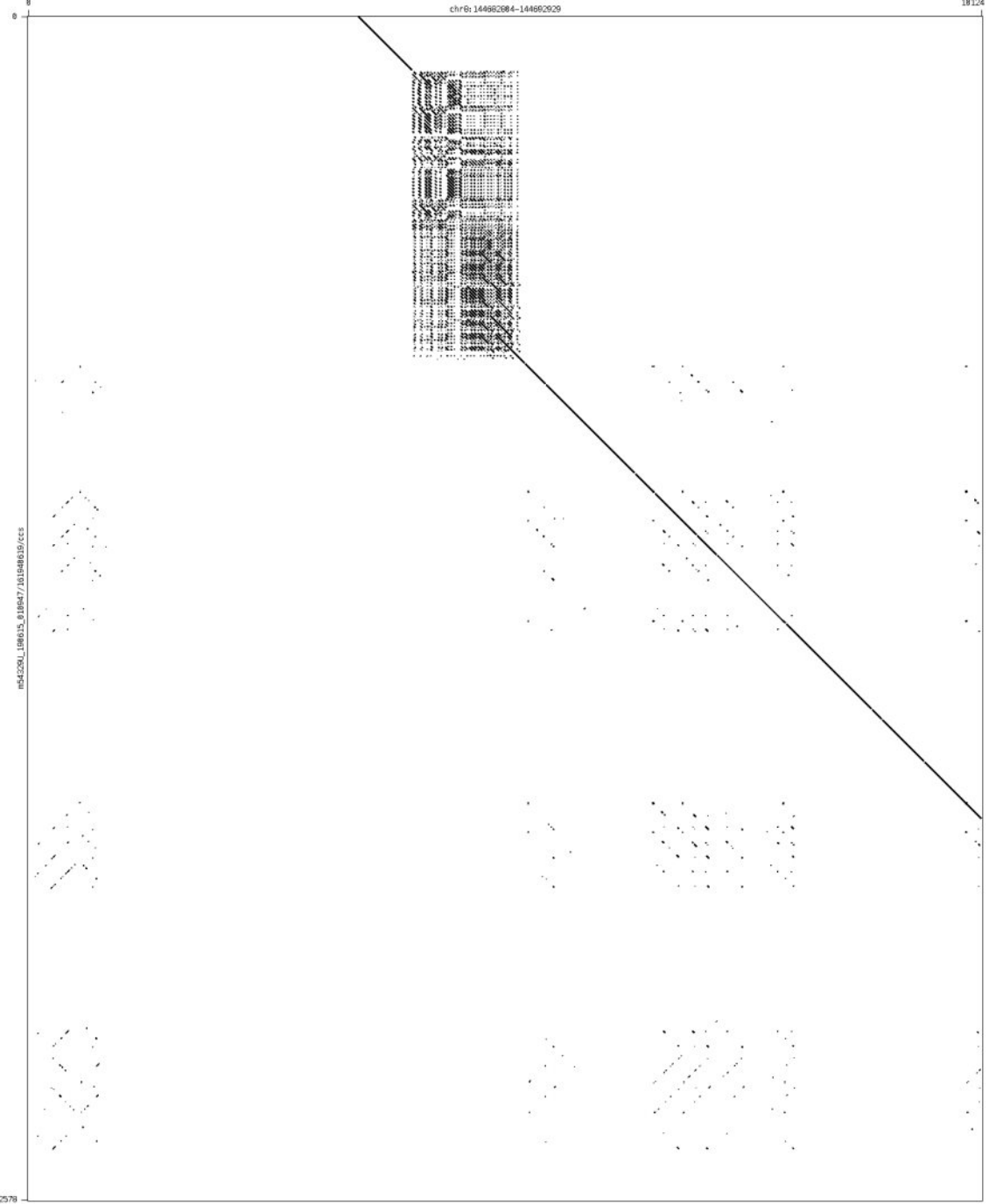
➤ chr8\_144233387\_144233472



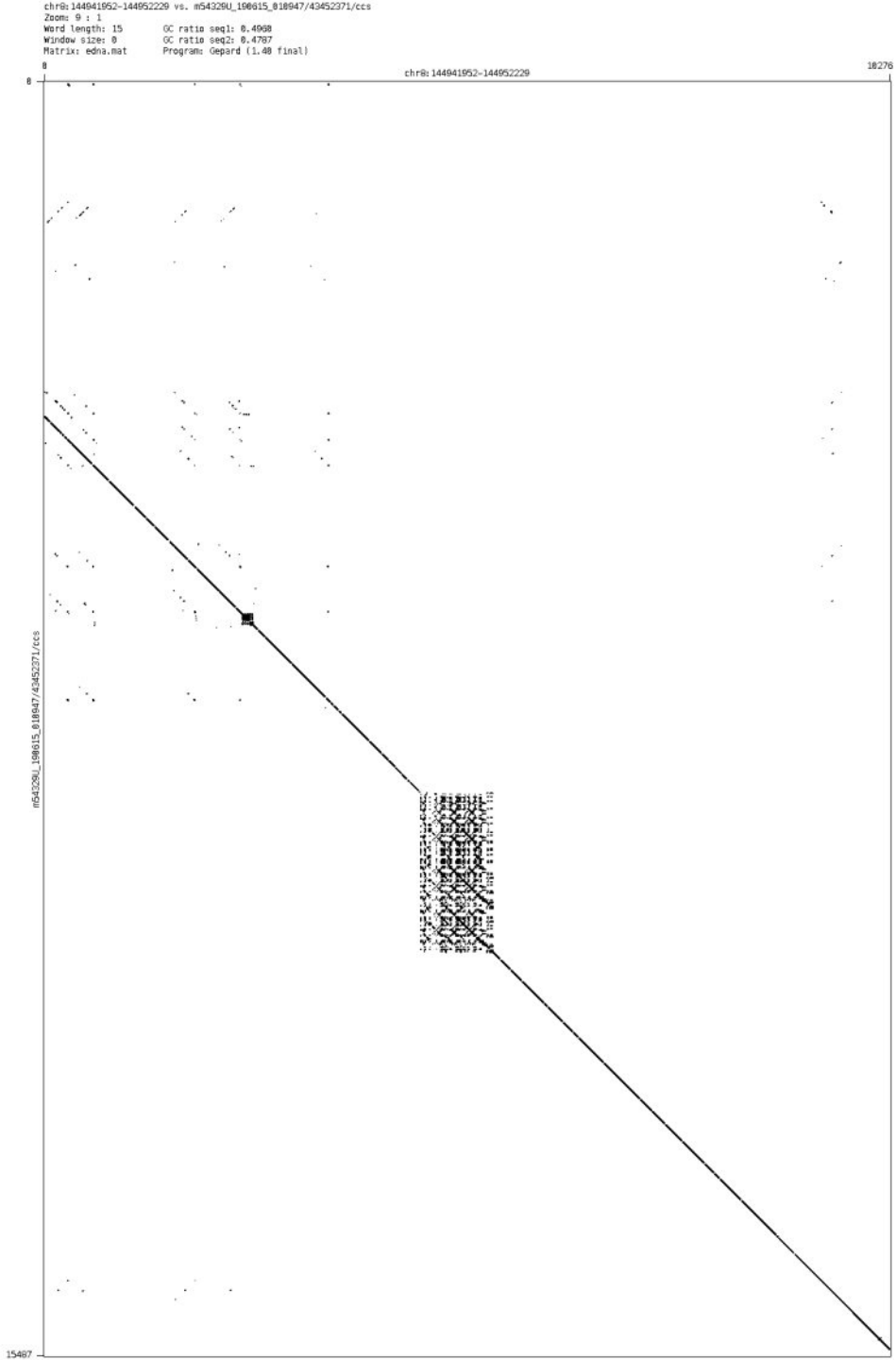


➤ chr8\_144687804\_144687929

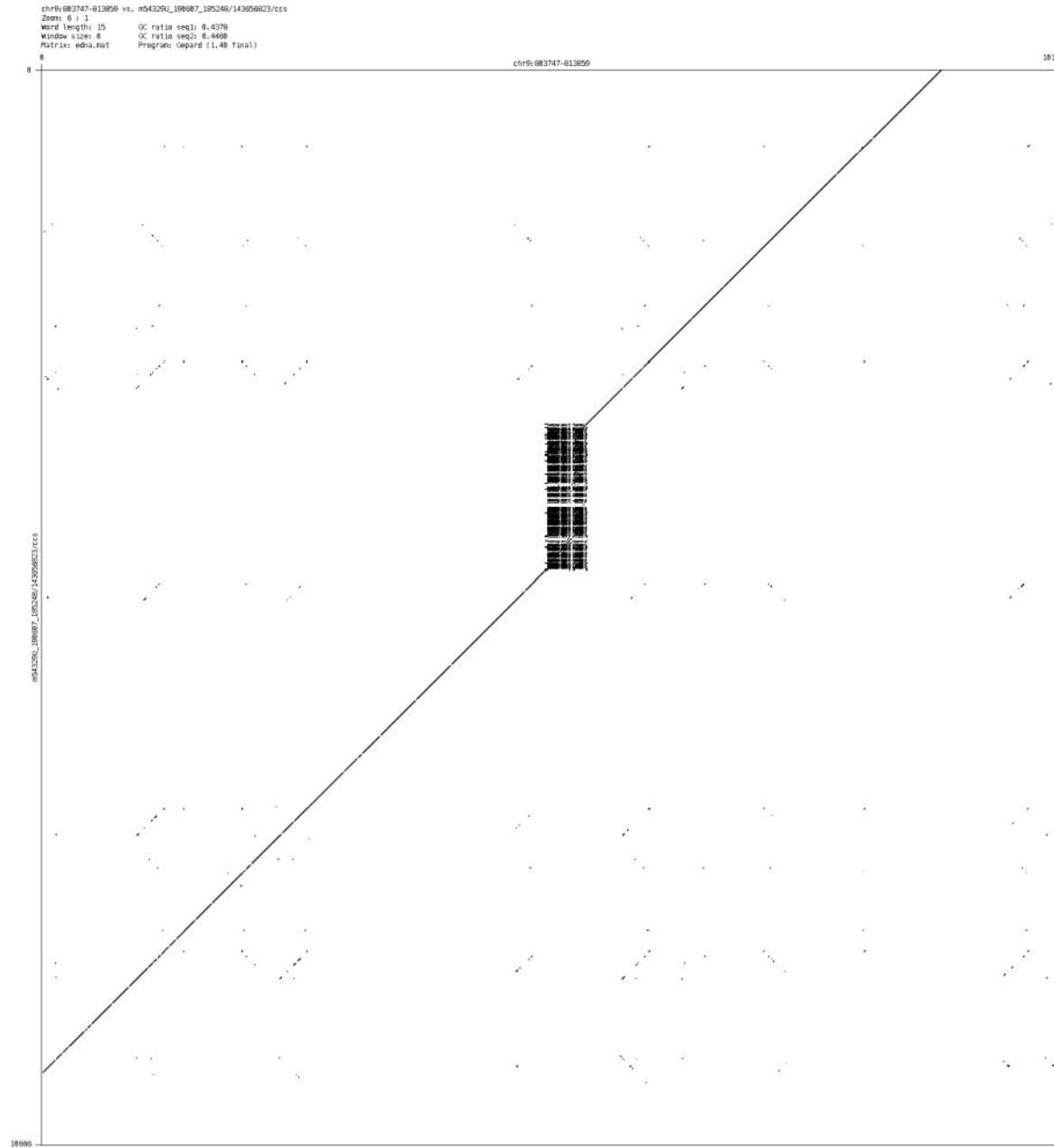
chr8:144682084-144682029 vs. m54329U\_100615\_018047/161040619/ccs  
Zoom: 7 : 1 GC ratio seq1: 0.5486  
Word length: 15 GC ratio seq2: 0.5308  
Window size: 8 Program: cepd (1.48 final)  
Matrix: edna.mat



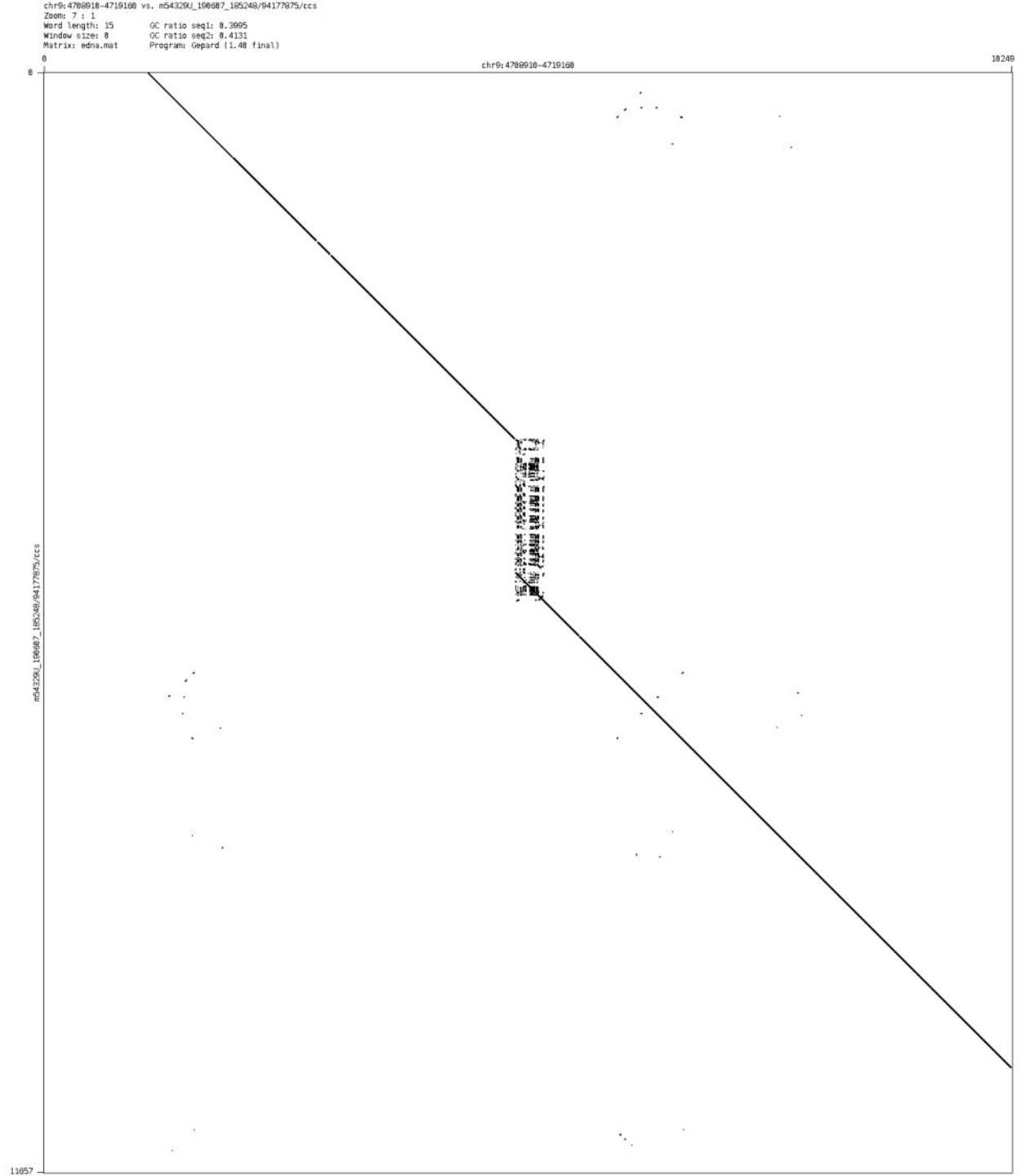
➤ chr8\_144946952\_144947229



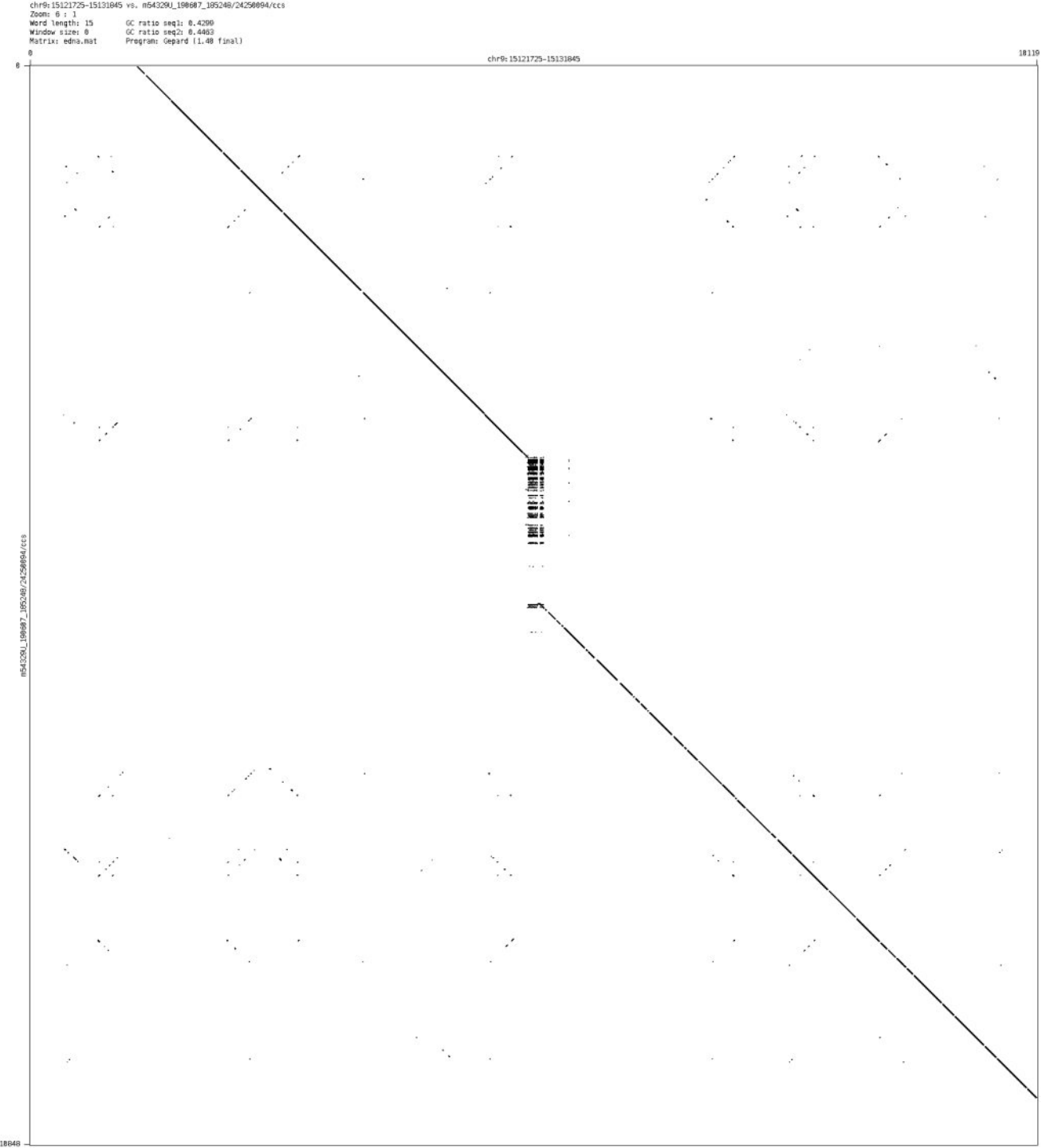
➤ chr9\_808747\_808859



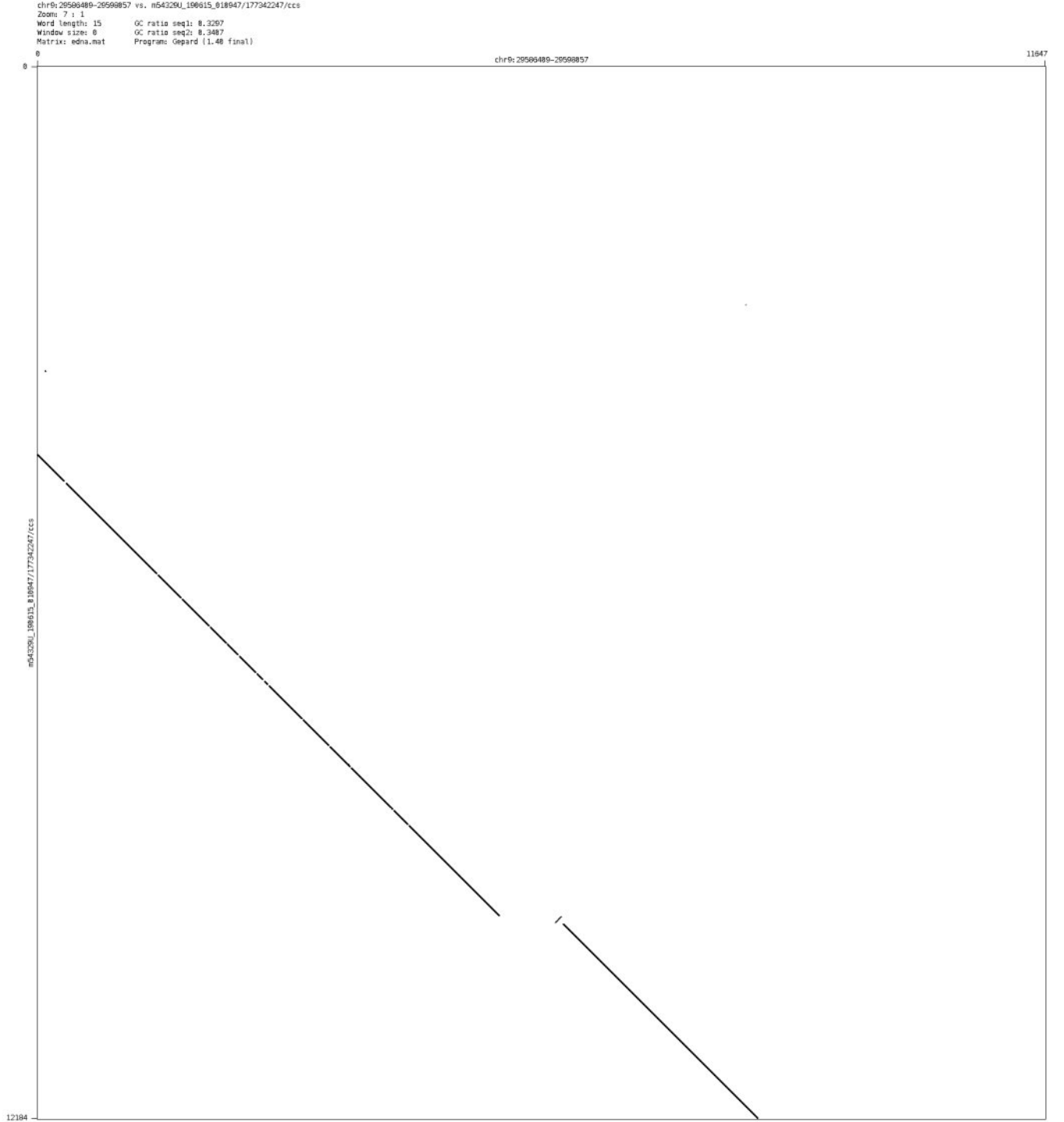
➤ chr9\_4713910\_4714160



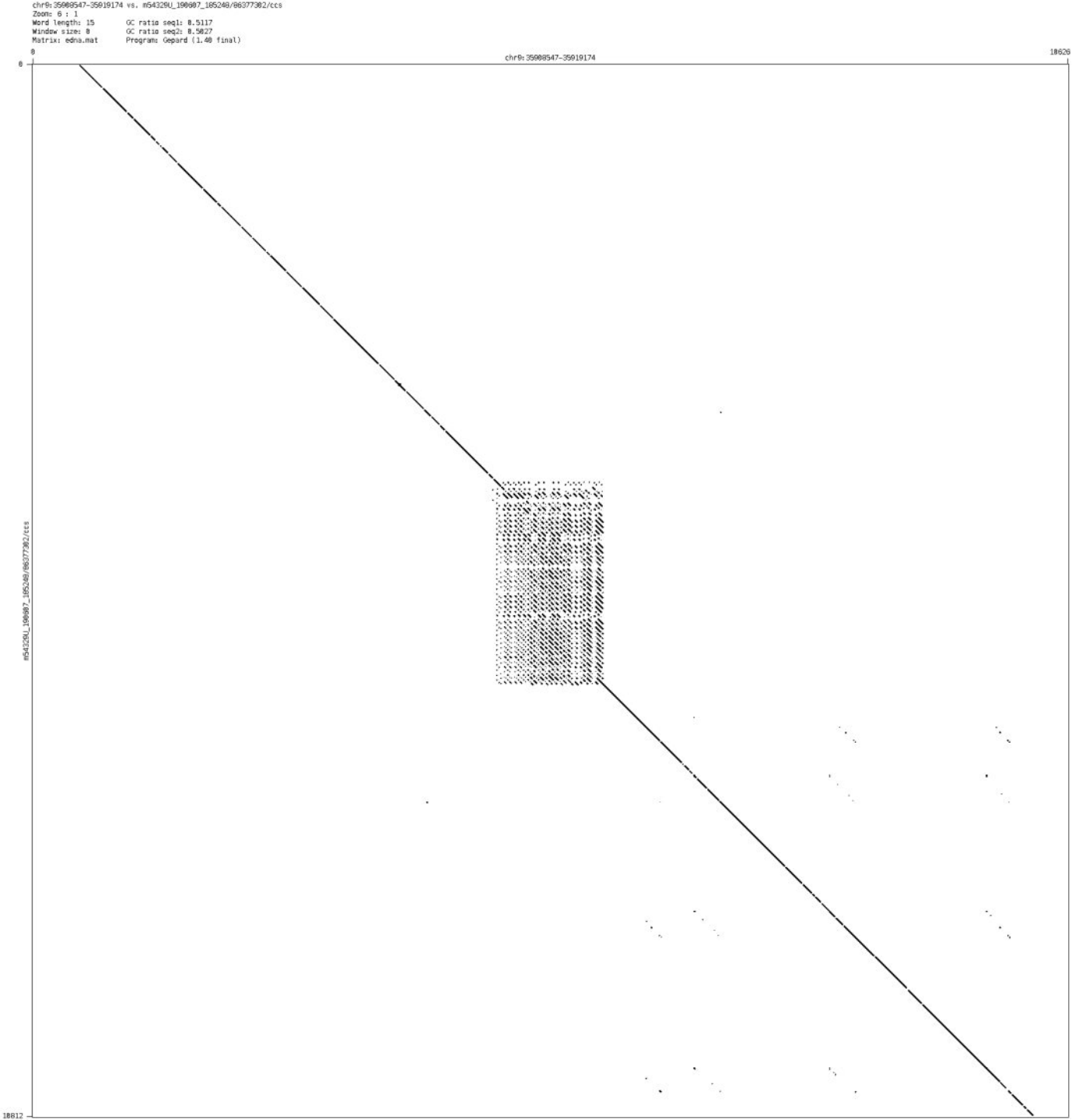
➤ chr9\_15126725\_15126845



➤ chr9\_29591409\_29593057



➤ chr9\_35913547\_35914174



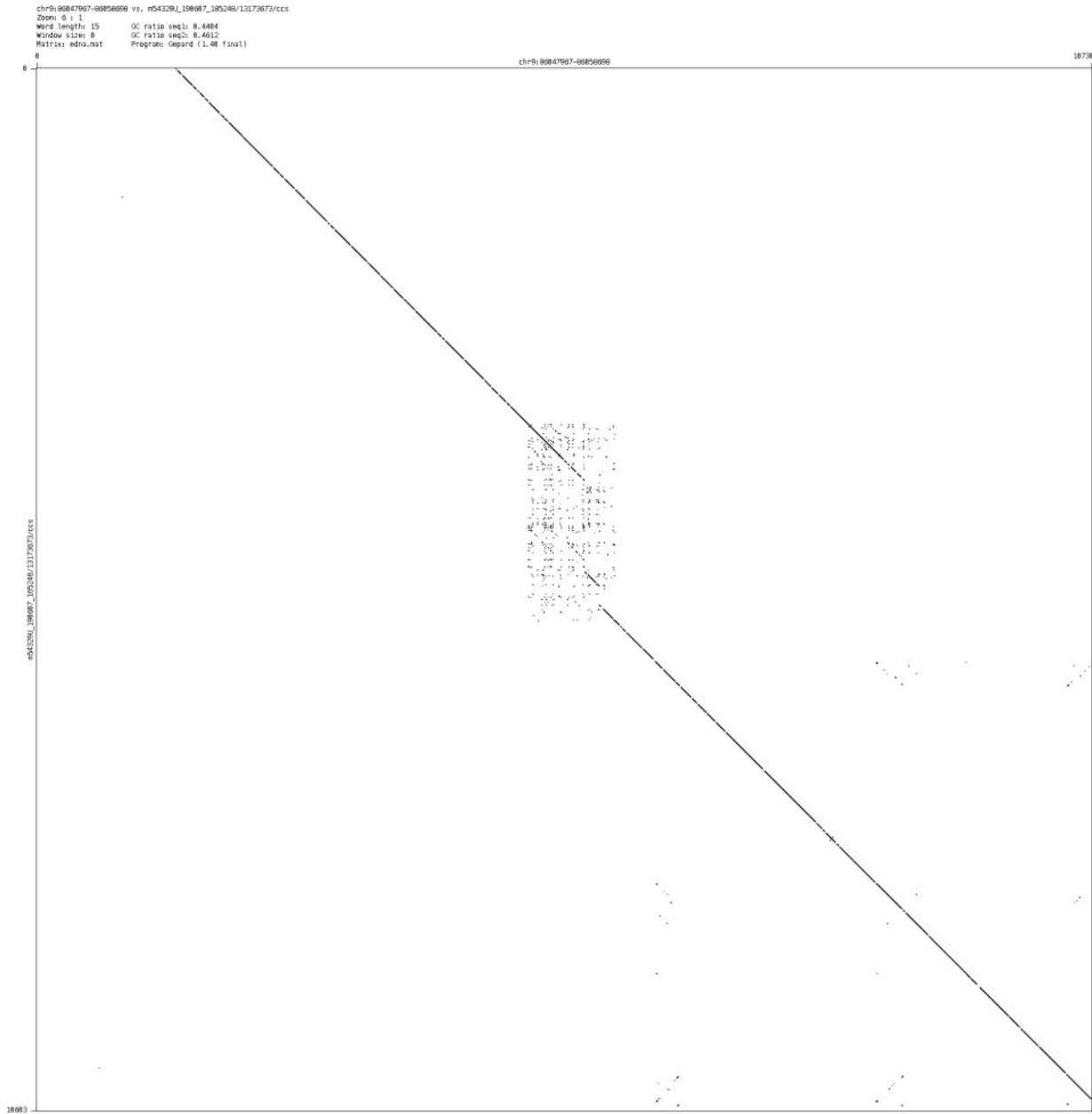
# ➤ chr9\_62806317\_62823001

chr9:62801317-62828001 vs. m54329U\_190607\_185248/130482665/ccs  
Zoom: 15 : 1  
Word length: 15      GC ratio seq1: 0.3933  
Window size: 0      GC ratio seq2: 0.3779  
Matrix: edna.mat      Program: Gepard (1.40 final)

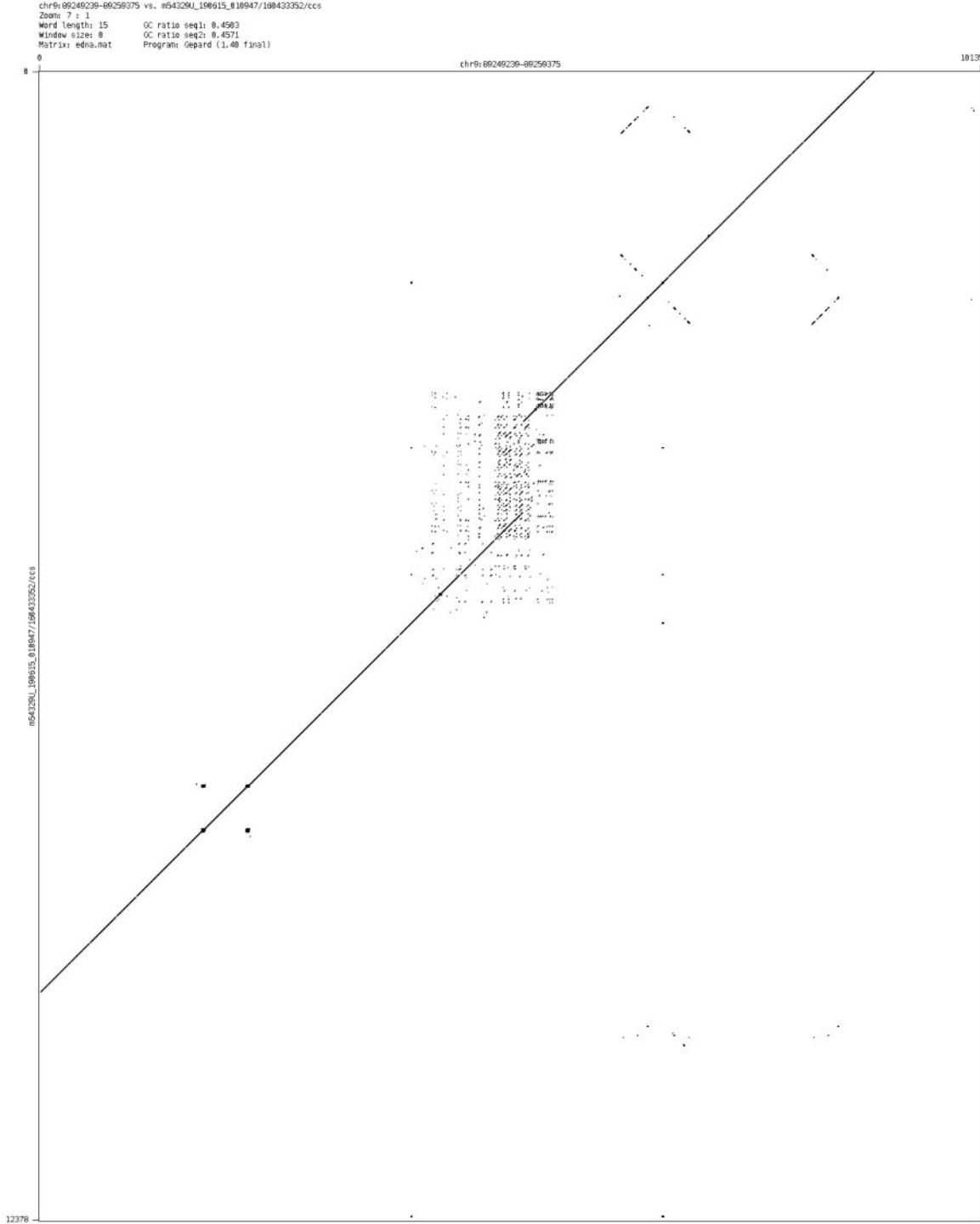




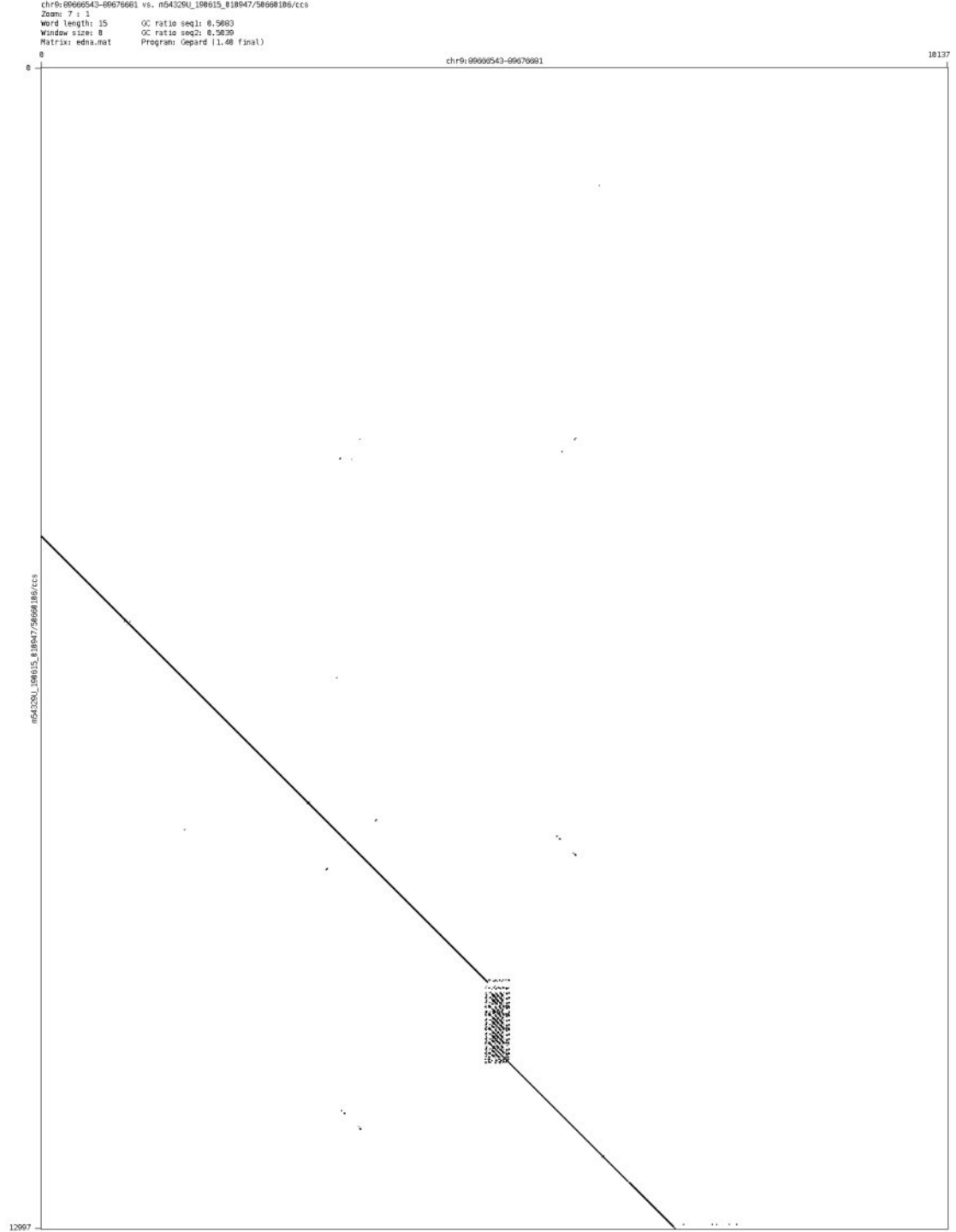
➤ chr9\_86052967\_86053698



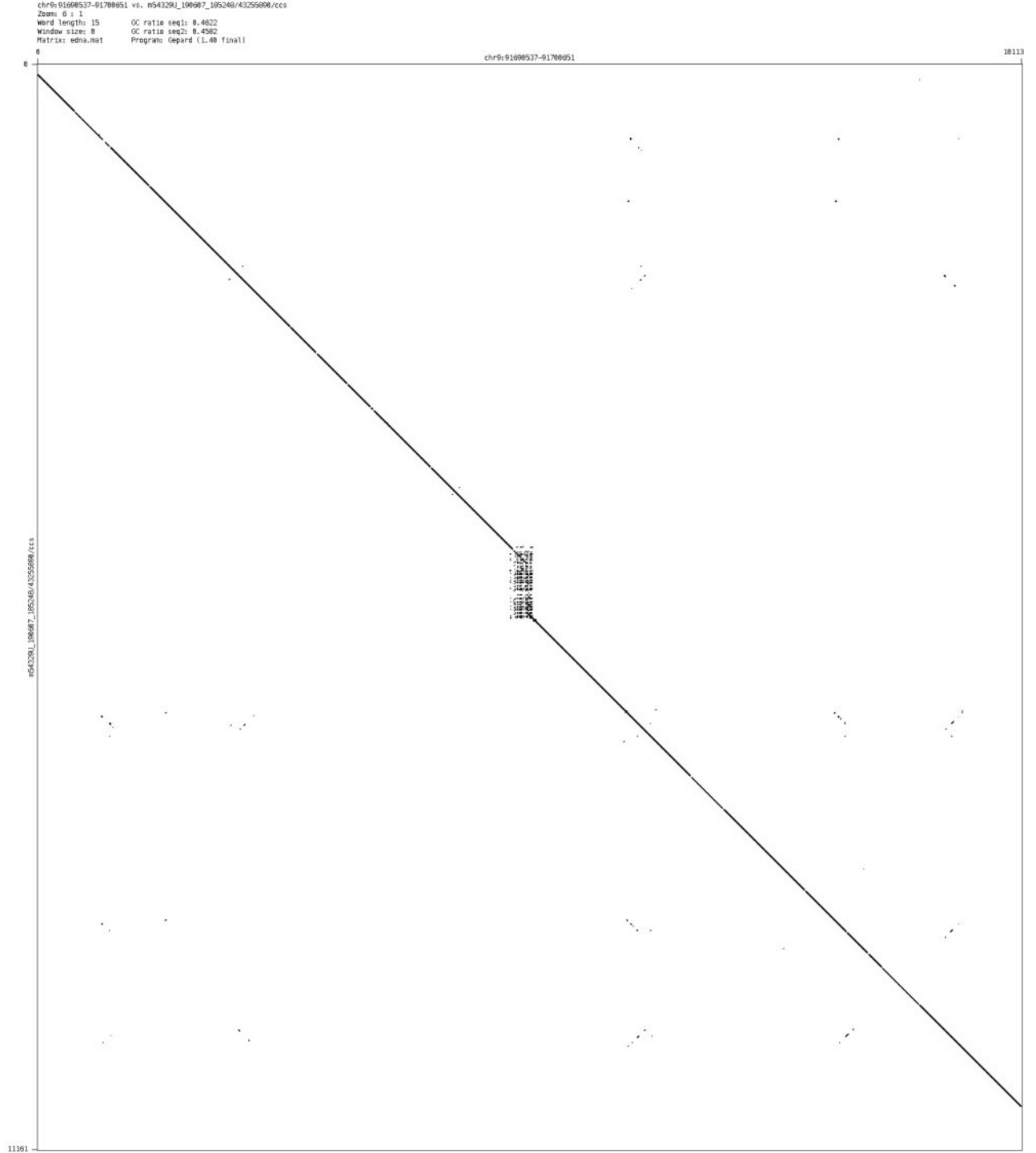
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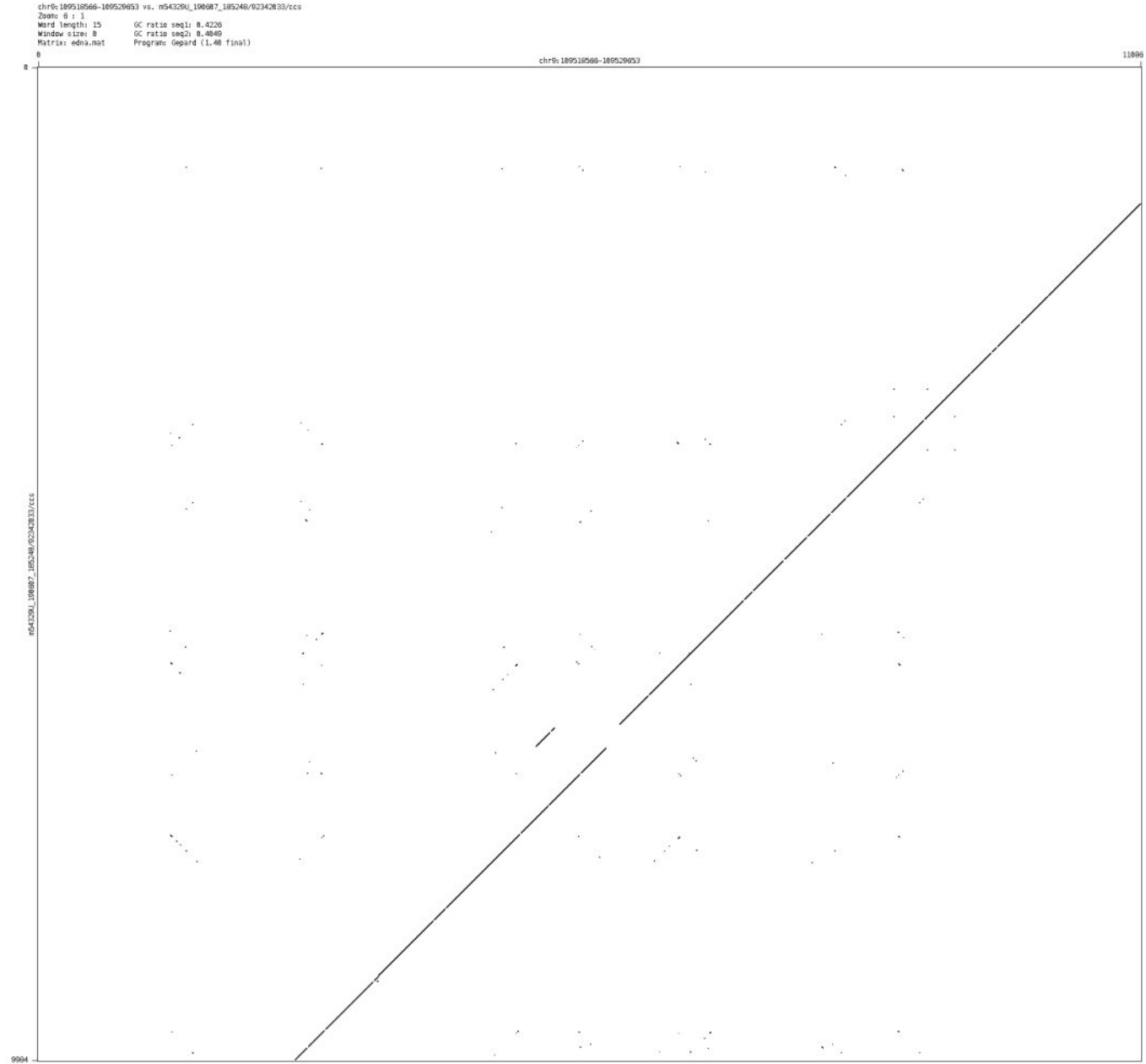
➤ chr9\_89671543\_89671681



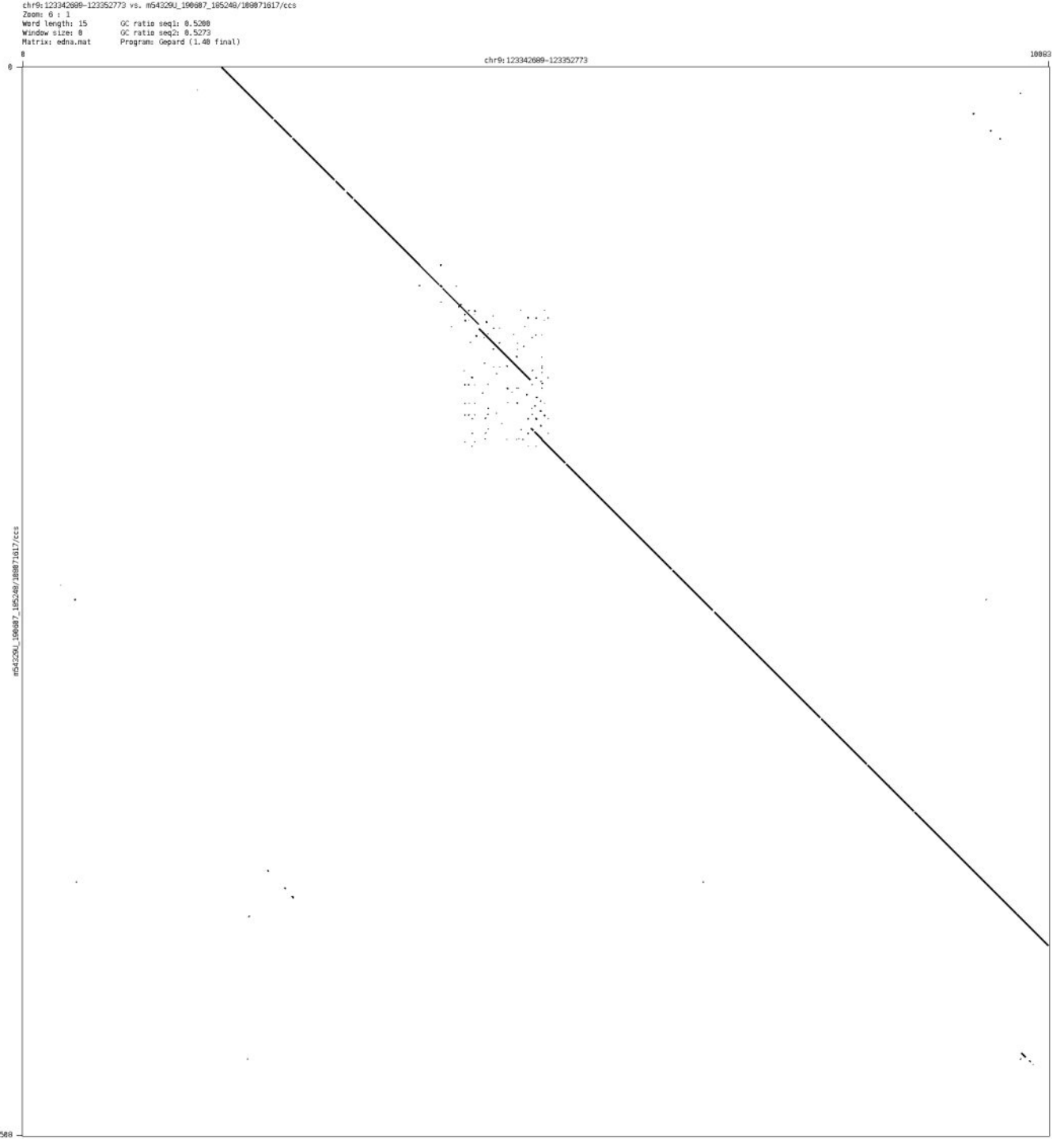
➤ chr9\_91695537\_91695651



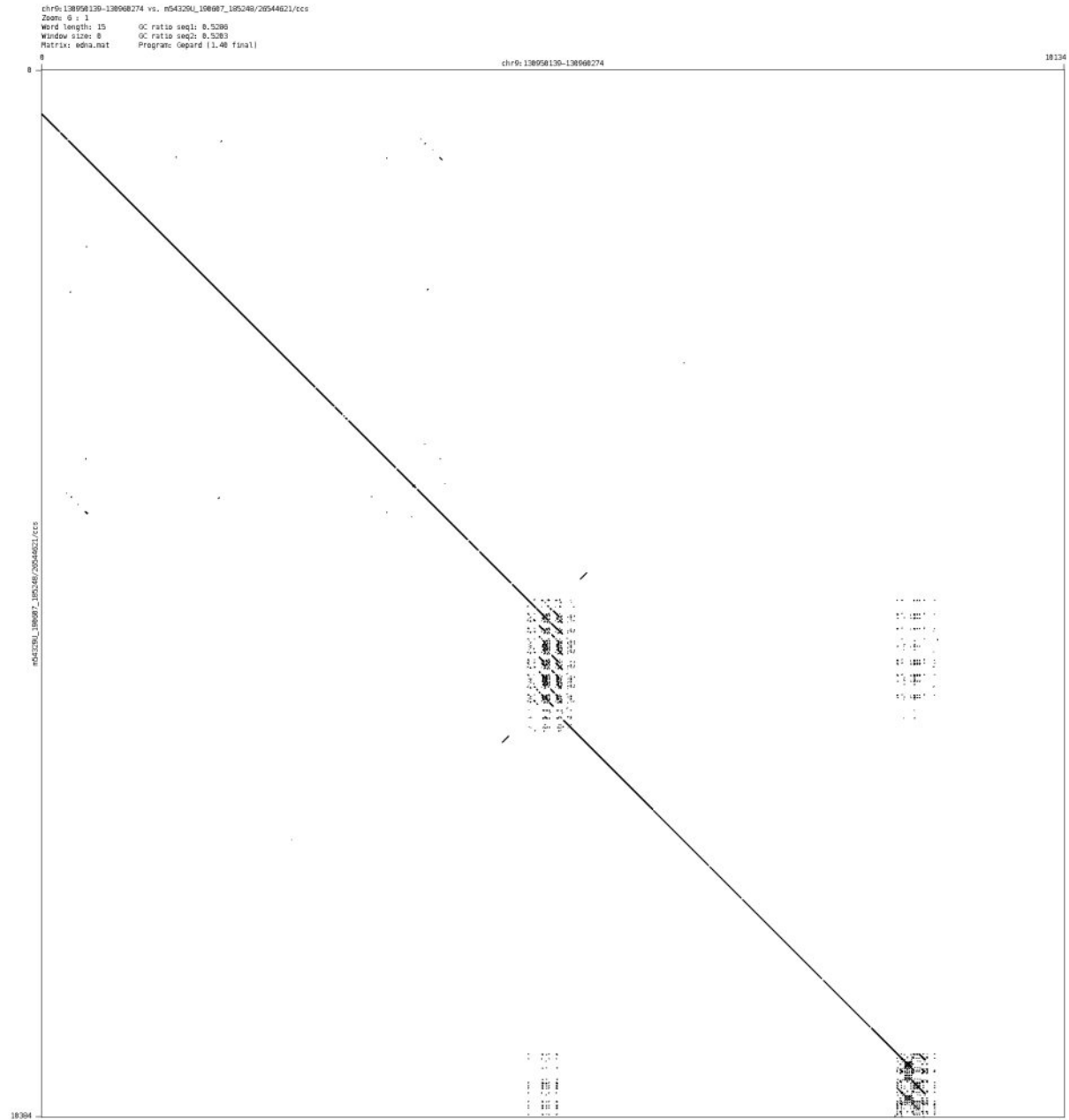
➤ chr9\_109523566\_109524653



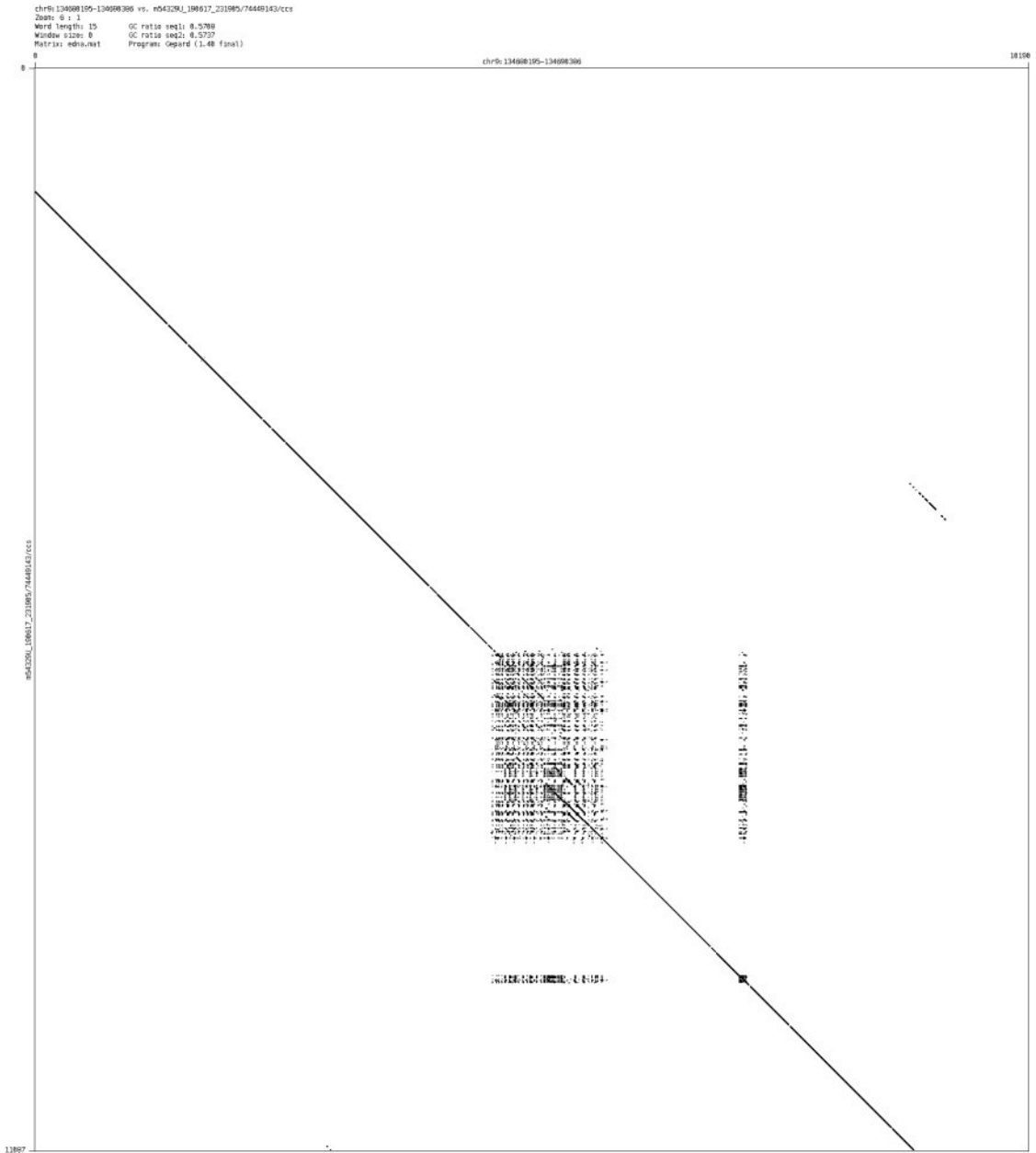
➤ chr9\_123347689\_123347773



➤ chr9\_130955139\_130955274

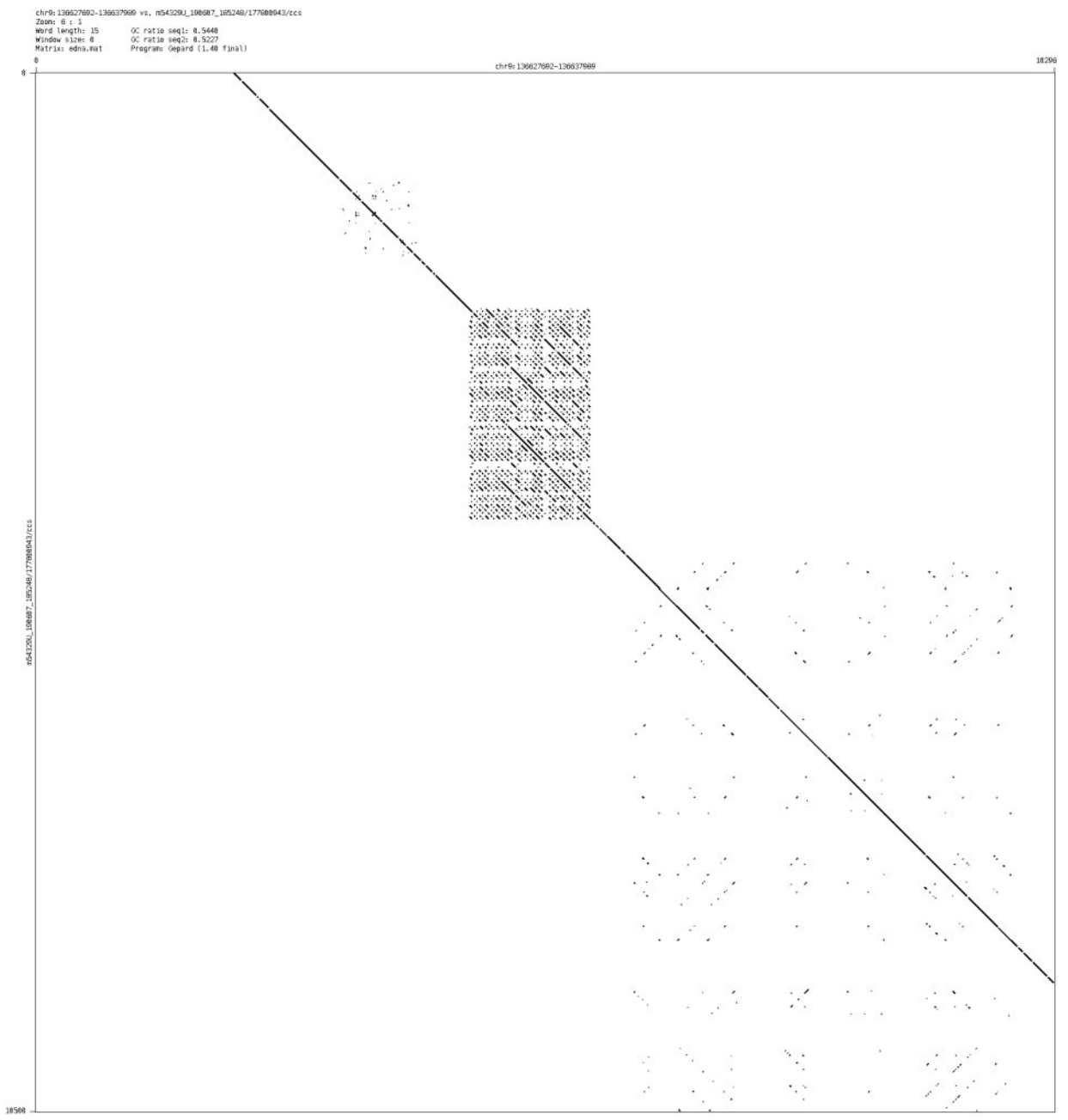


➤ chr9\_134685195\_134685386

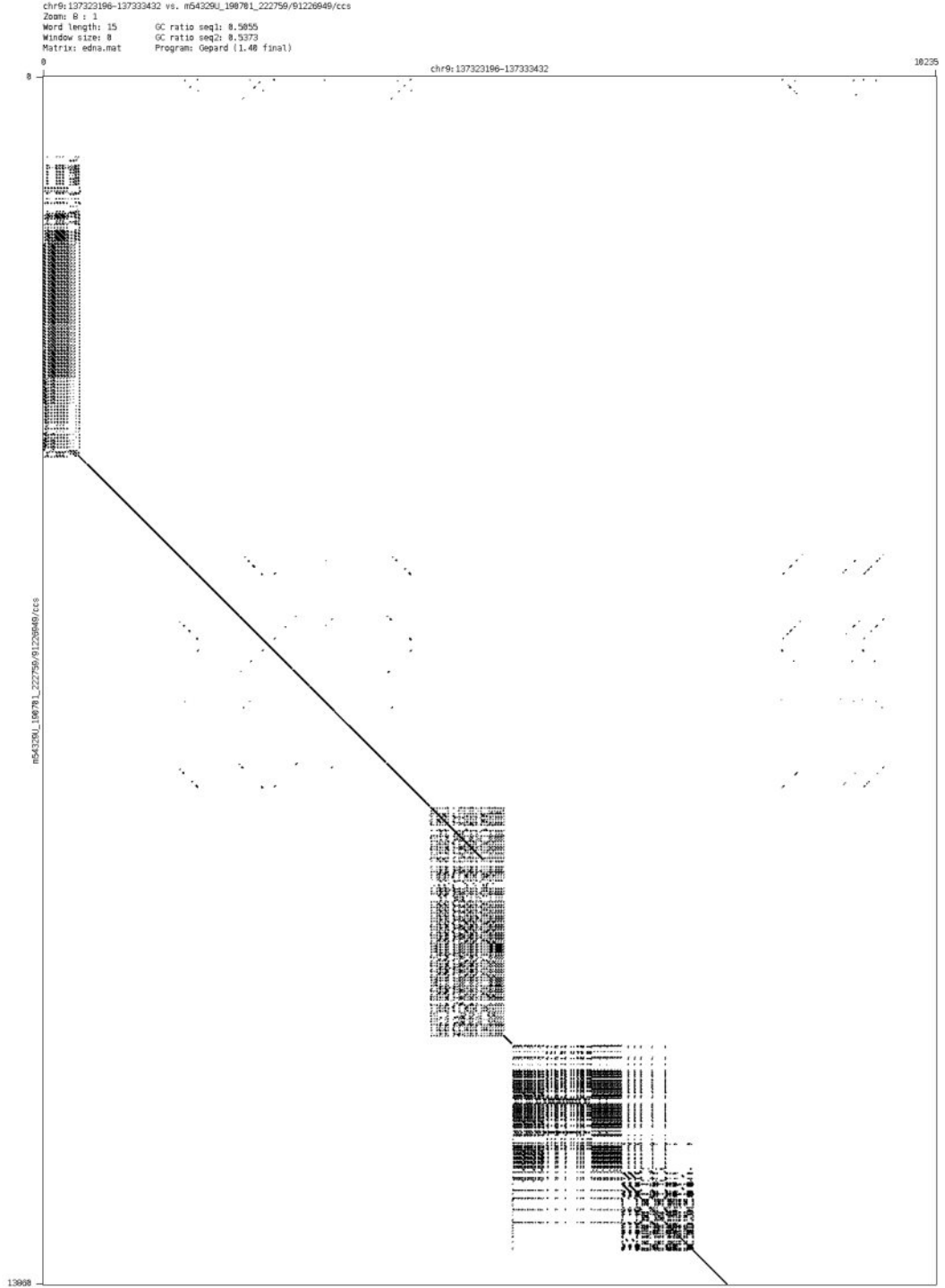




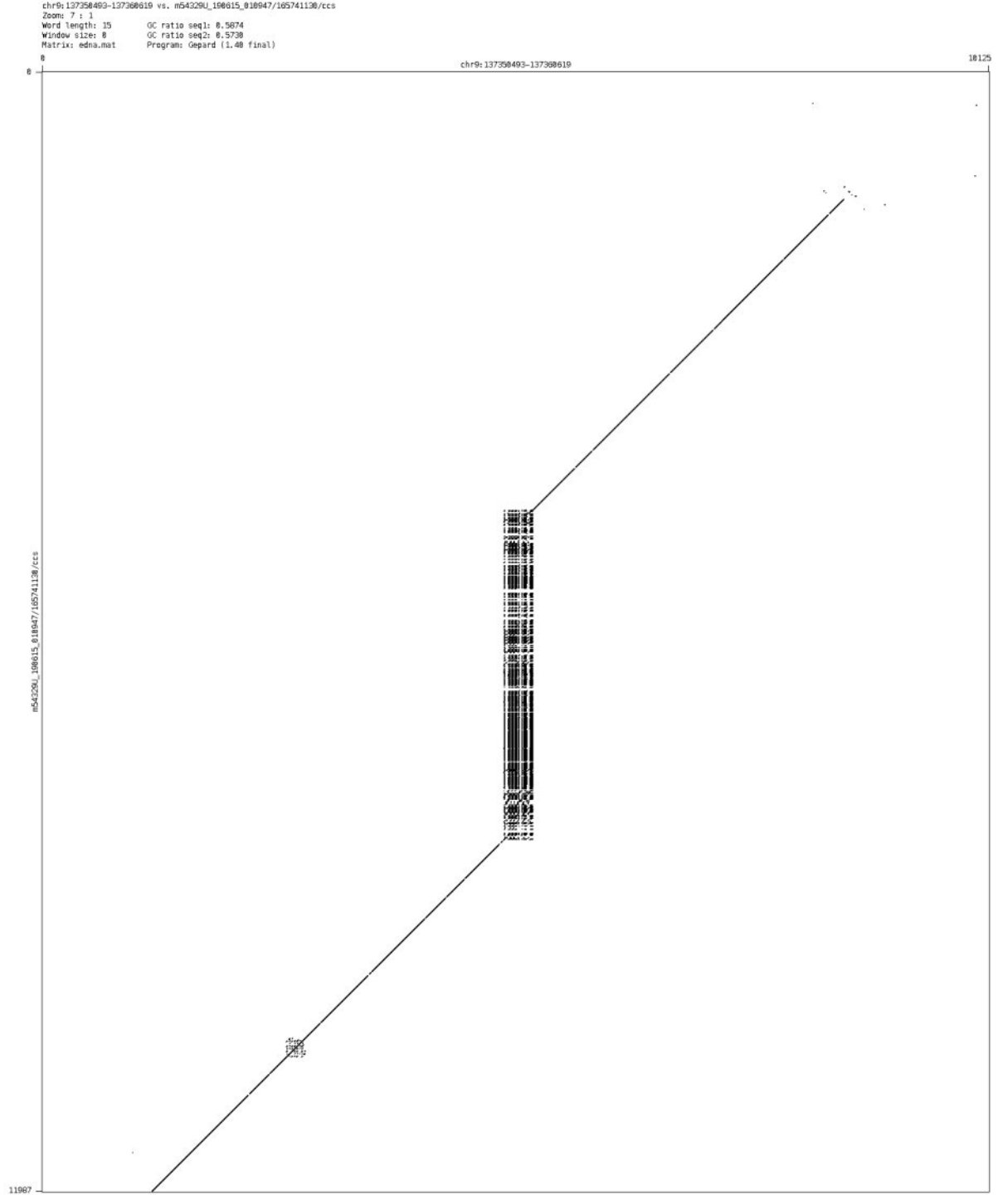
➤ chr9\_136632692\_136632989



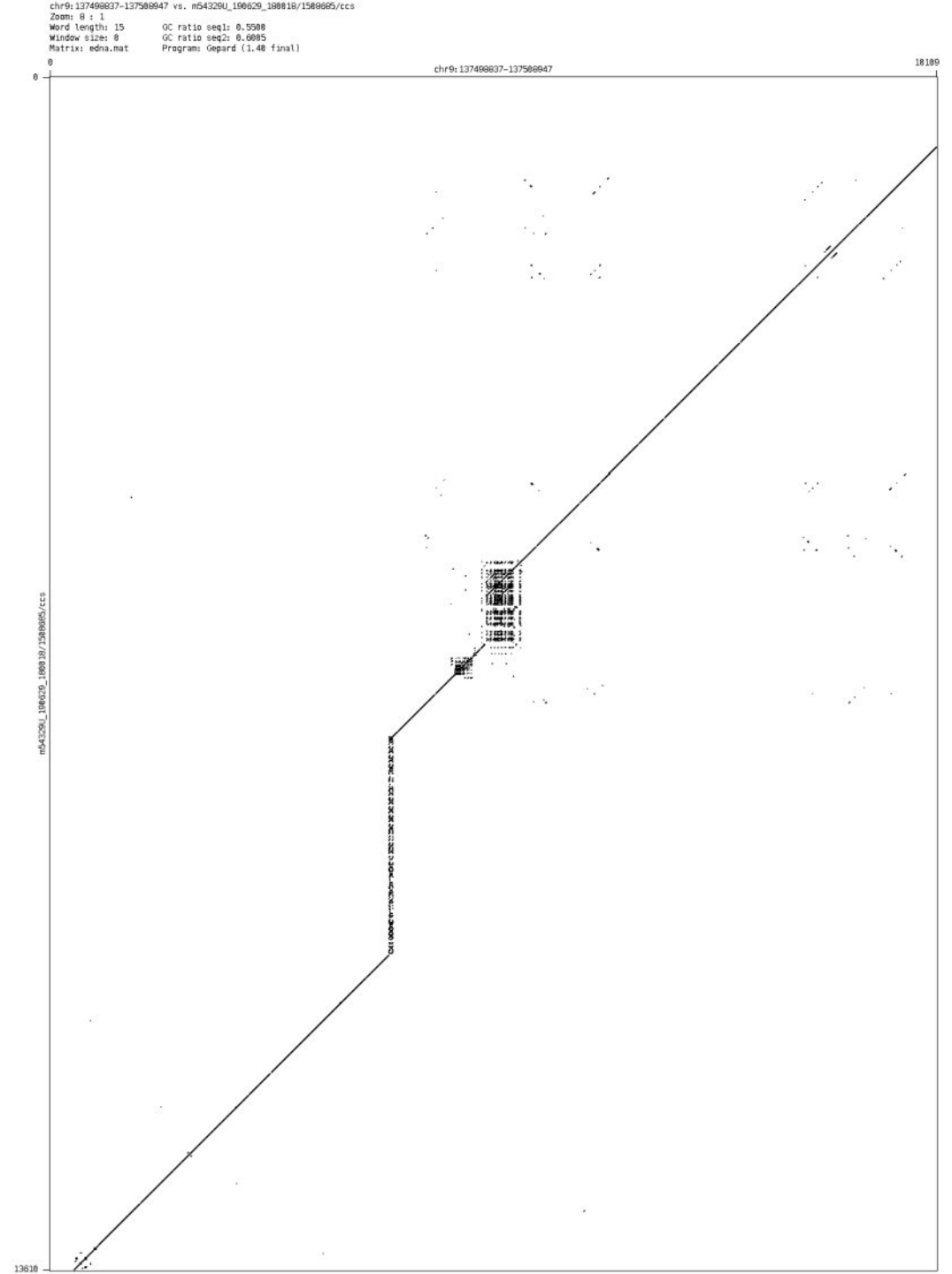
➤ chr9\_137328196\_137328432



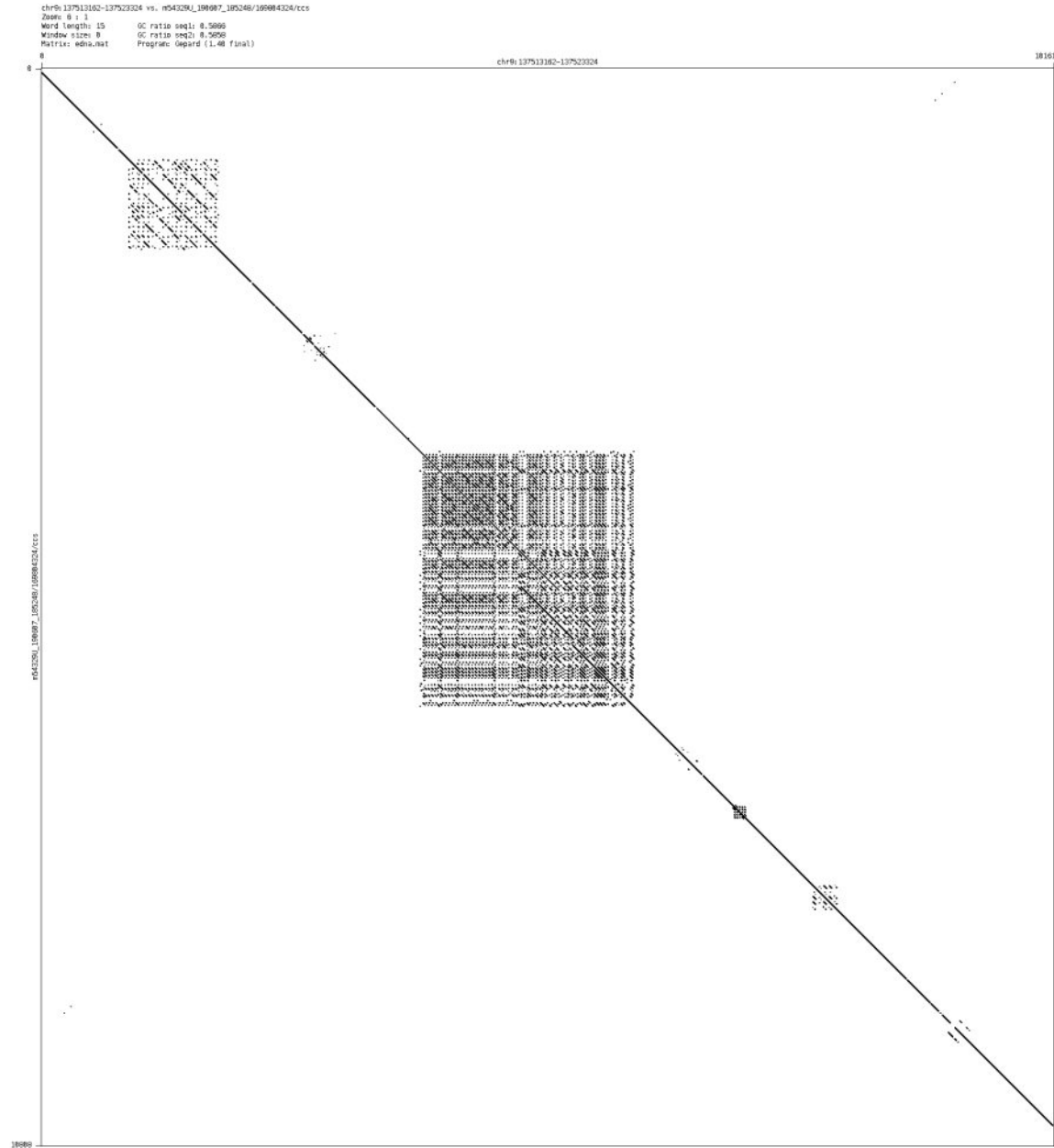
➤ chr9\_137355493\_137355619



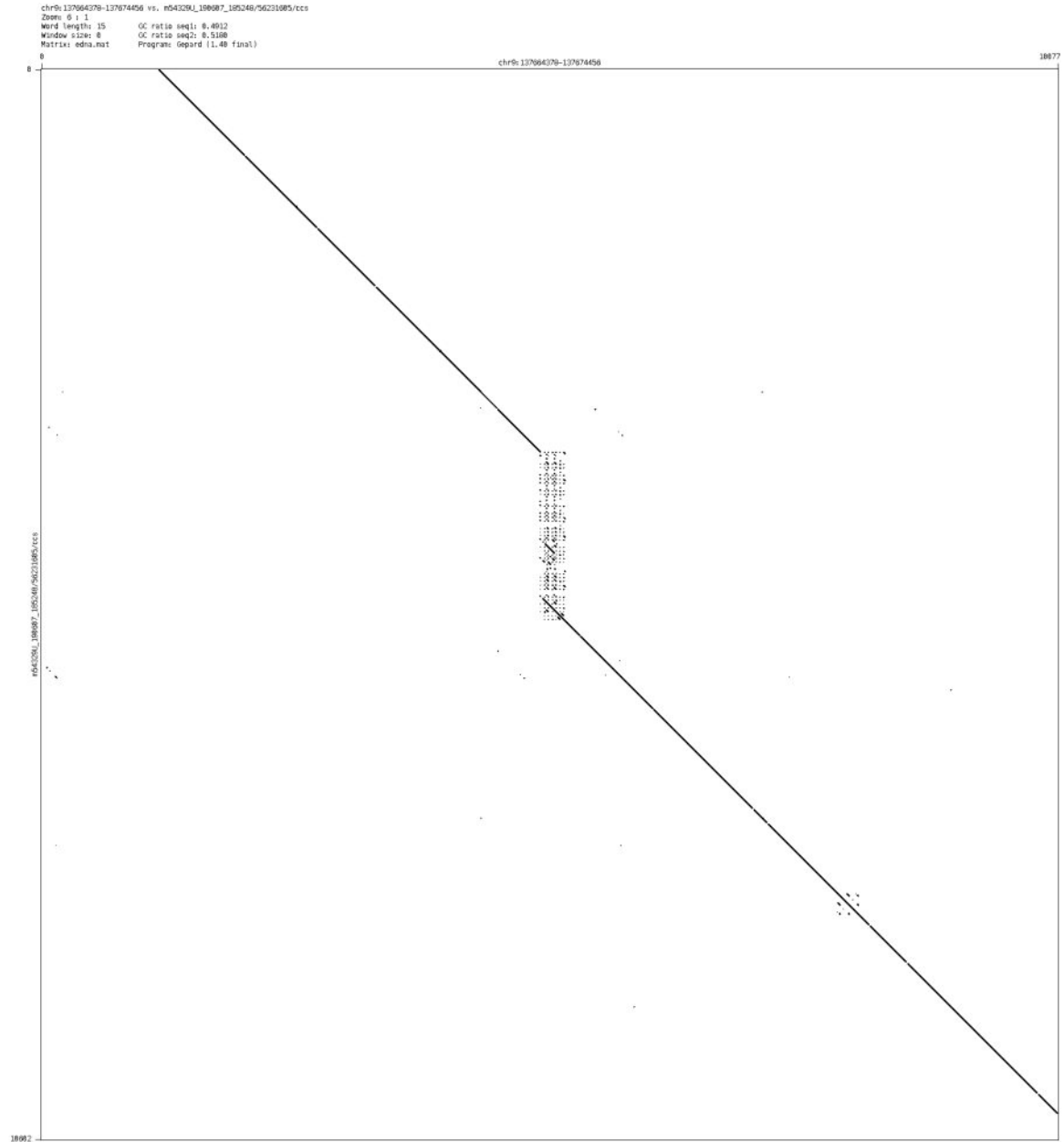
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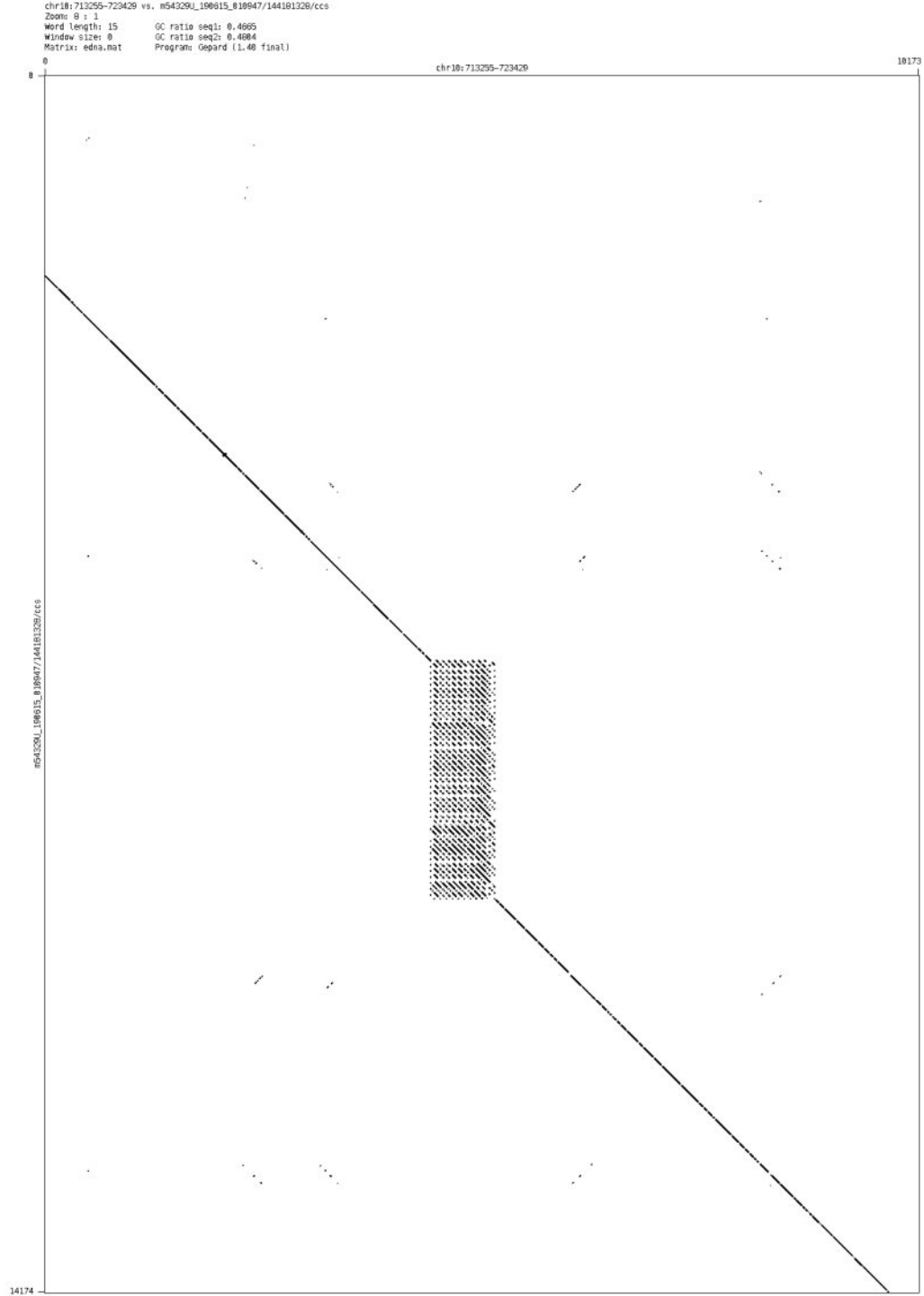
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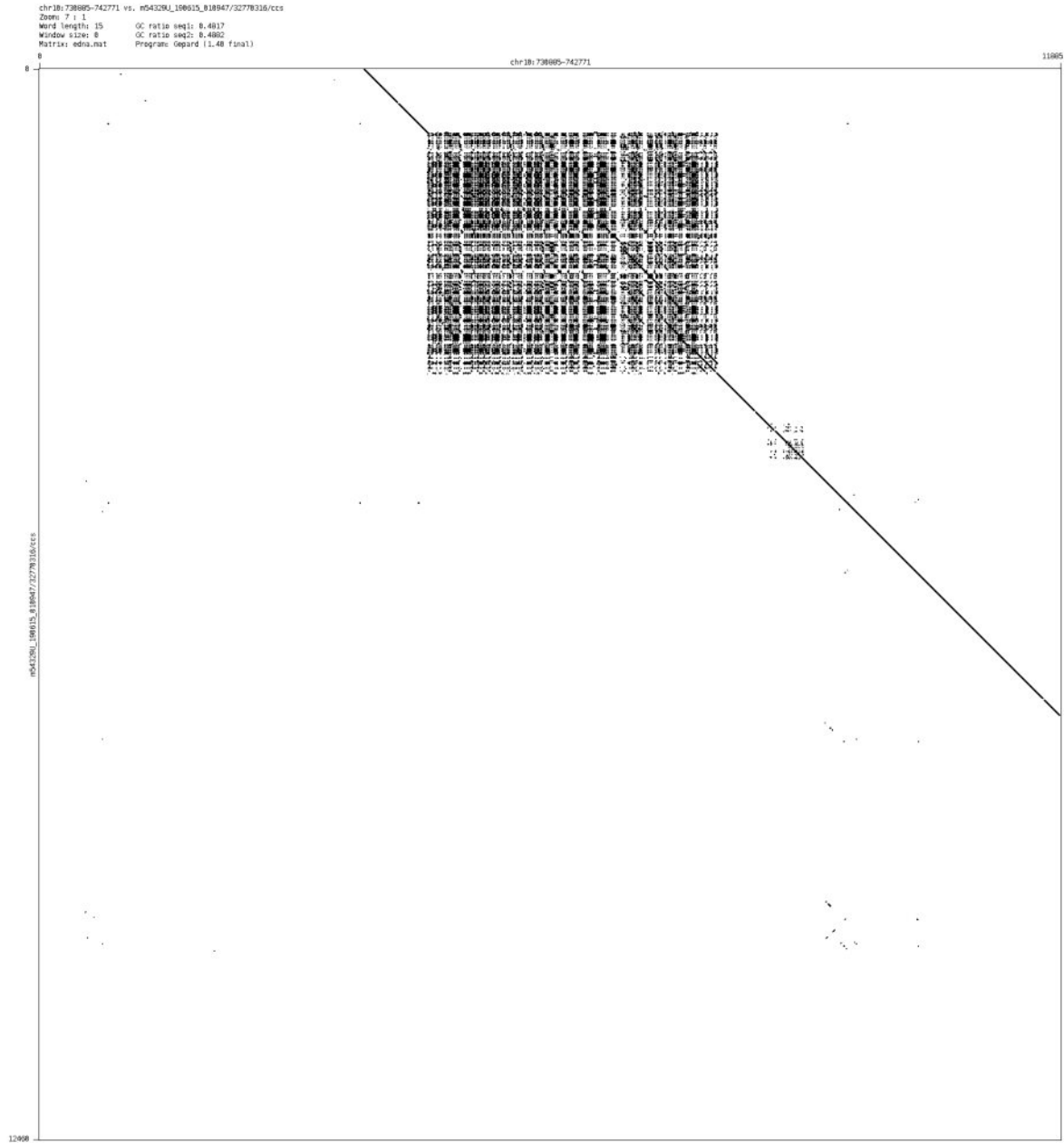
➤ chr9\_137669378\_137669456



➤ chr10\_718255\_718429

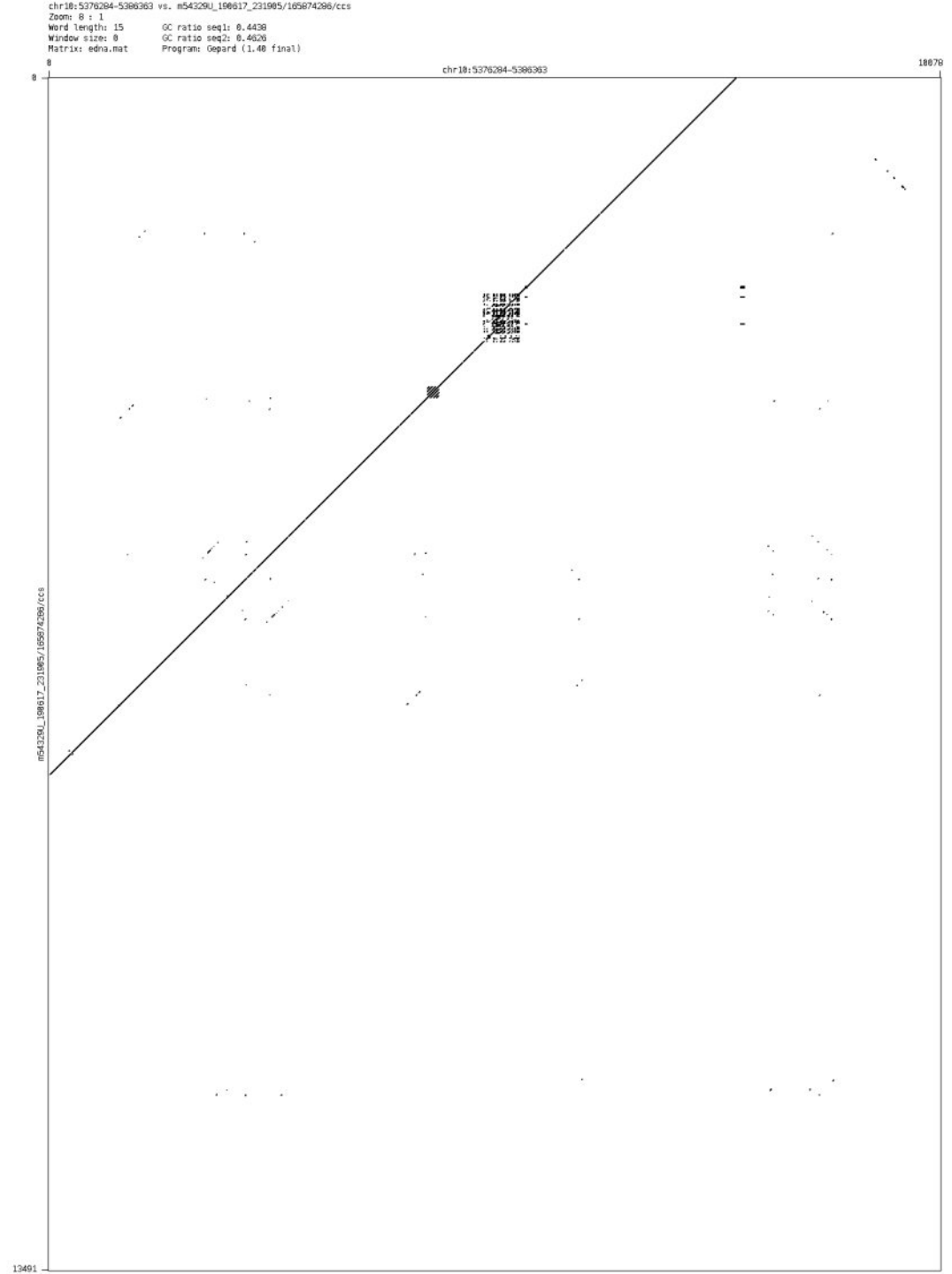


➤ chr10\_735885\_737771

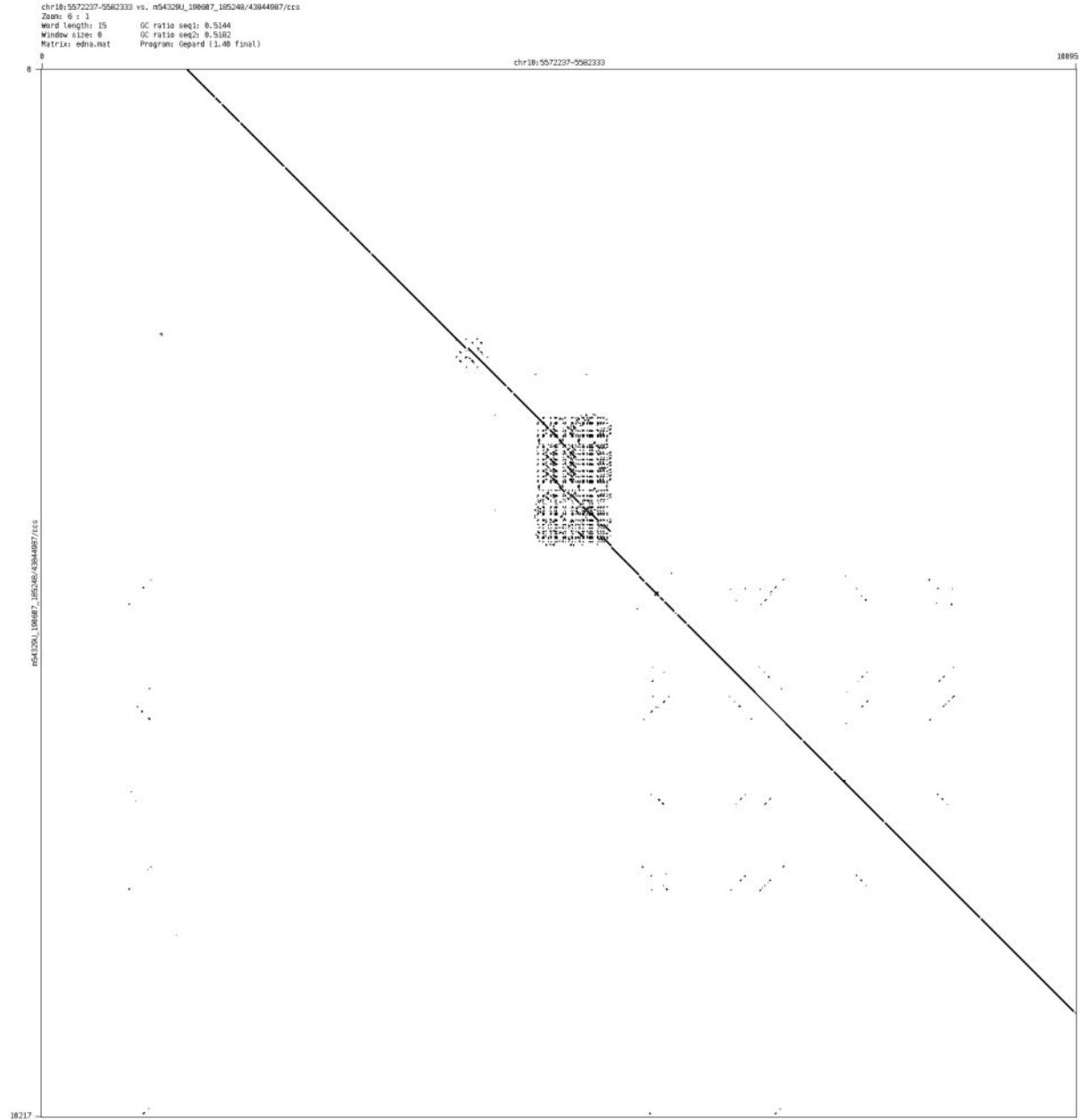




➤ chr10\_5381284\_5381363

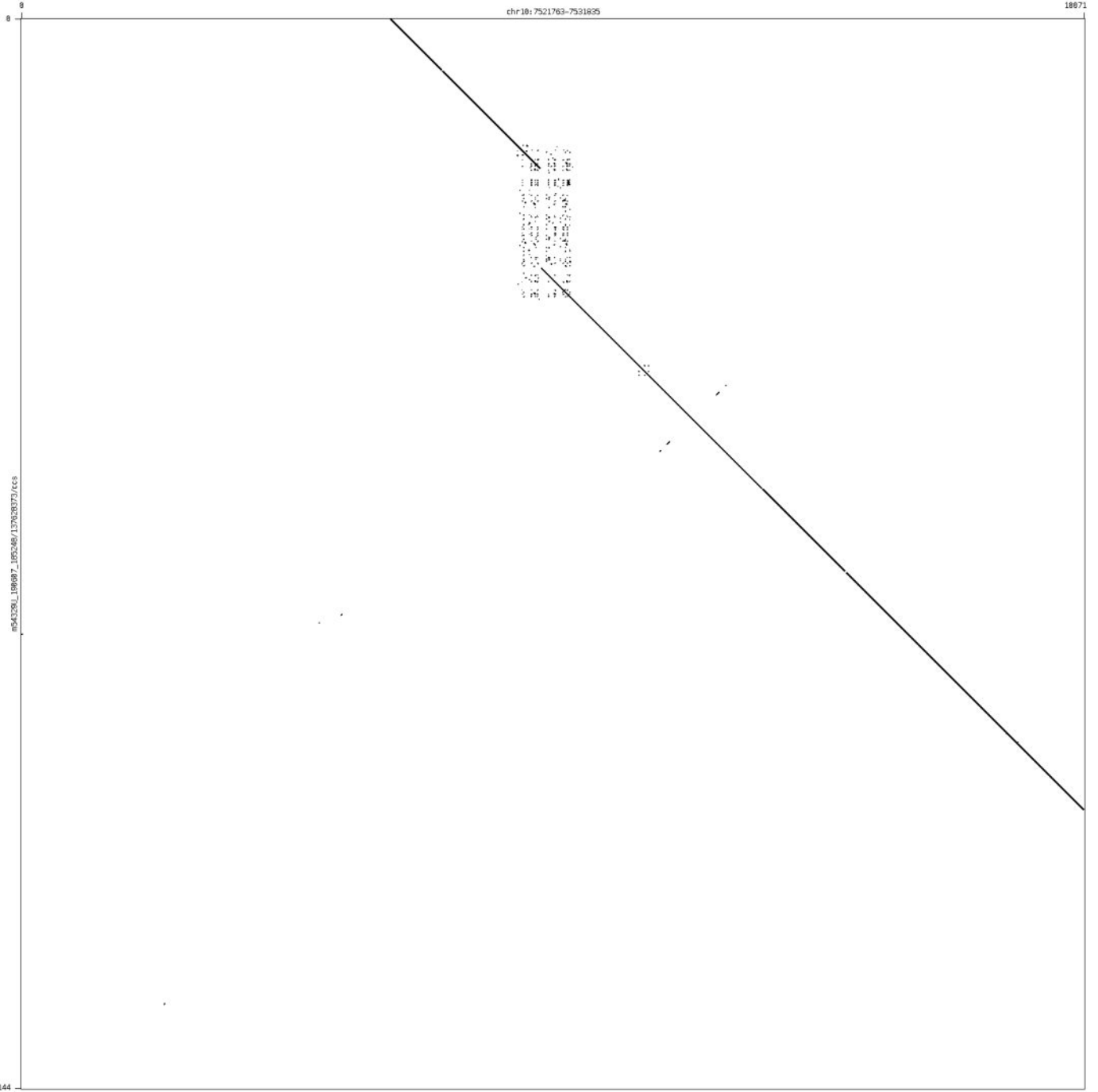


➤ chr10\_5577237\_5577333

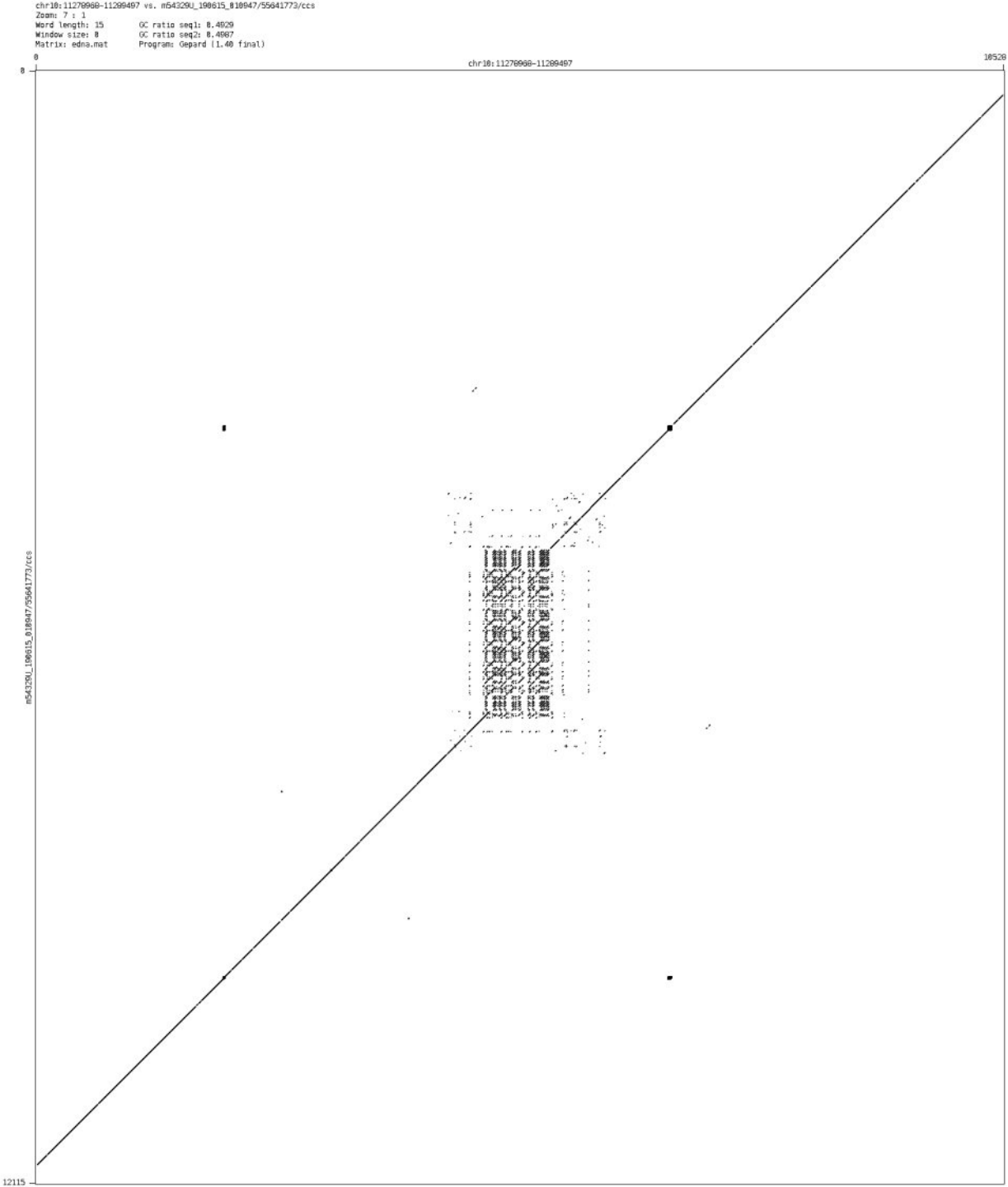


➤ chr10\_7526763\_7526835

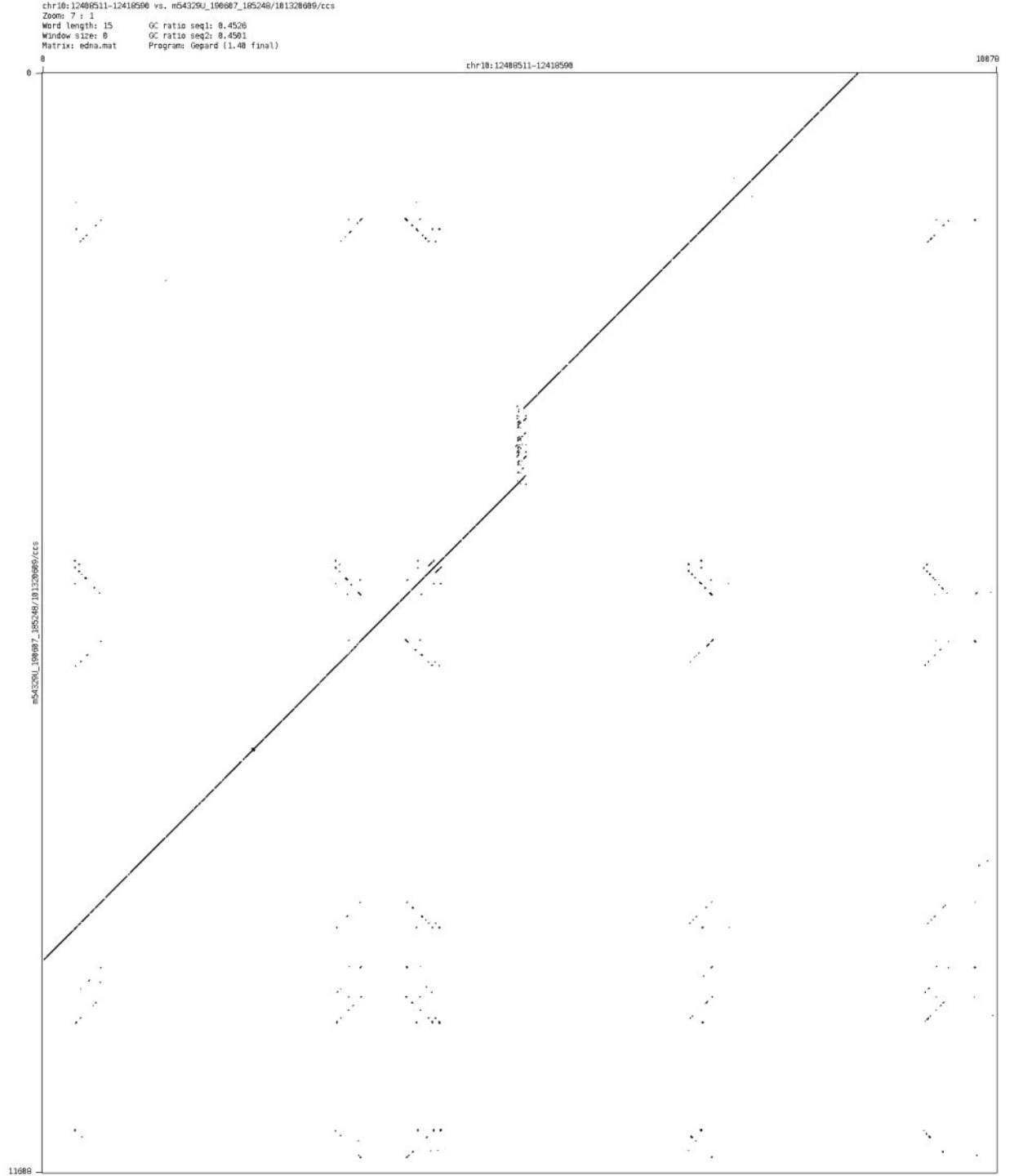
chr10:7521763-7531835 vs. m54326J\_198887\_185248/137628373/cds  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 8.4582  
Window size: 0 GC ratio seq2: 8.4354  
Matrix: edna.mat Program: gepard (1.48 final)



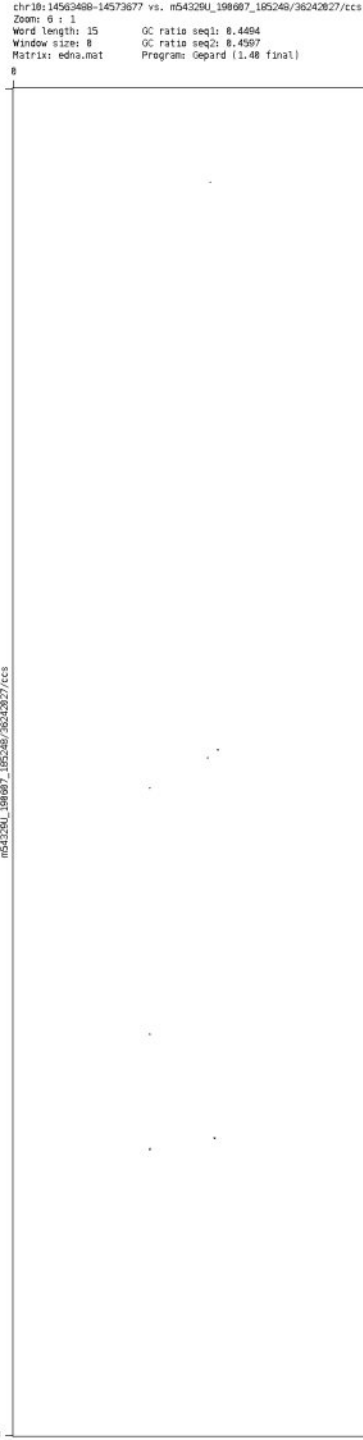
➤ chr10\_11283968\_11284497



➤ chr10\_12413511\_12413590

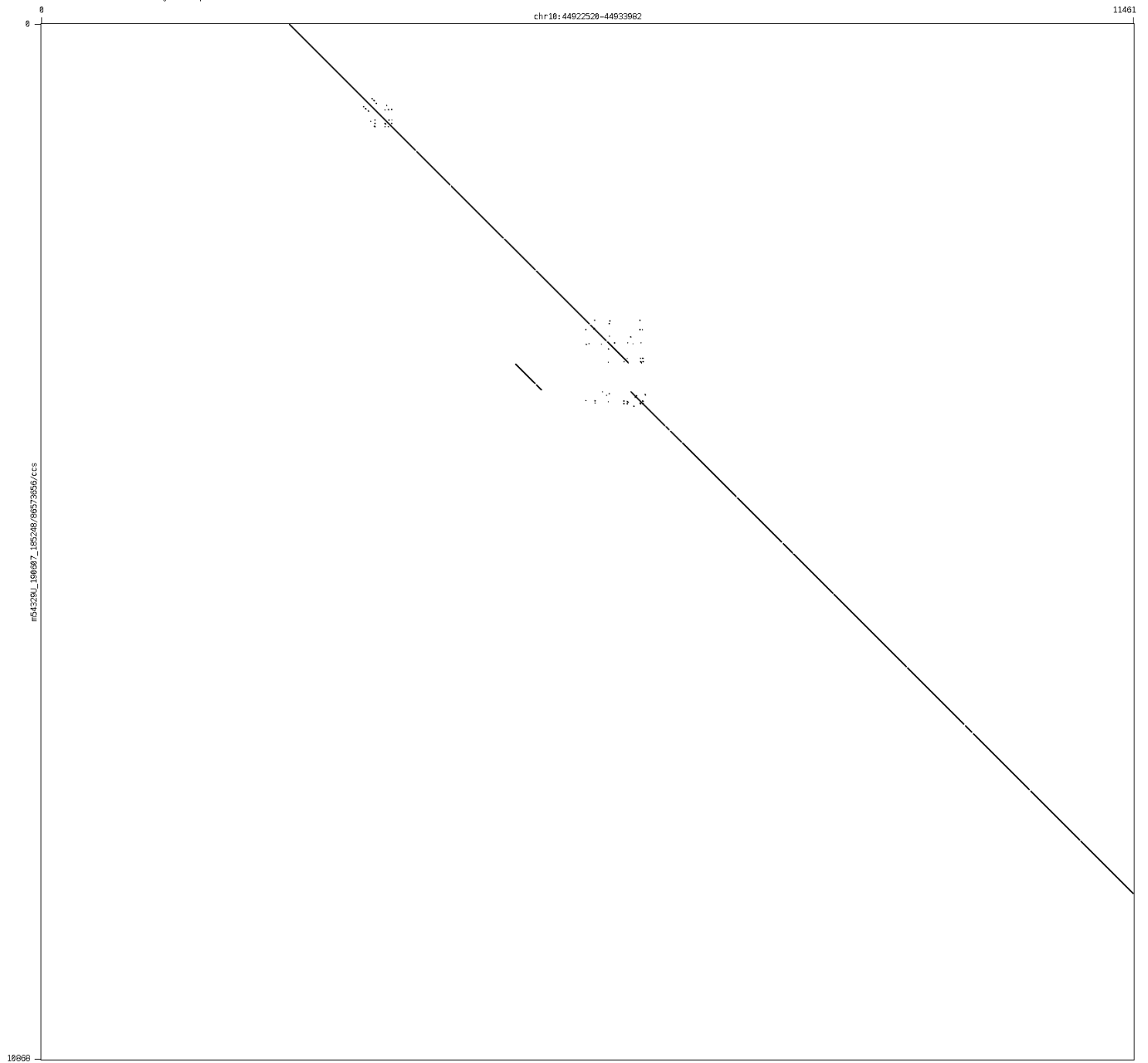


➤ chr10\_14568488\_14568677

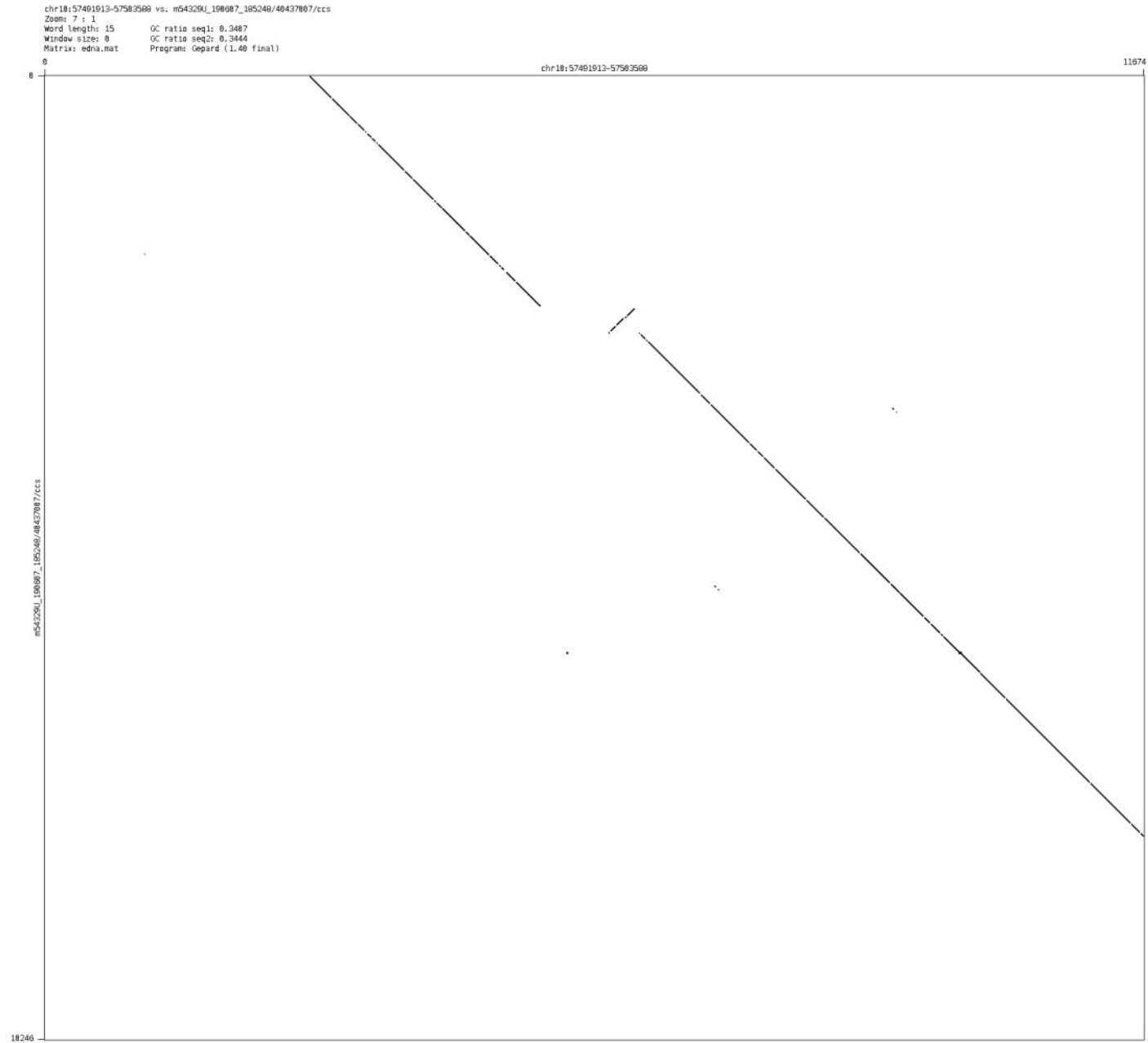


➤ chr10\_44927520\_44928982

chr10:44922520-44933982 vs. m54329U\_190607\_195248/09573656/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 0.5279  
Window size: 0 GC ratio seq2: 0.5375  
Matrix: edna.mat Program: Oepard (1.40 final)

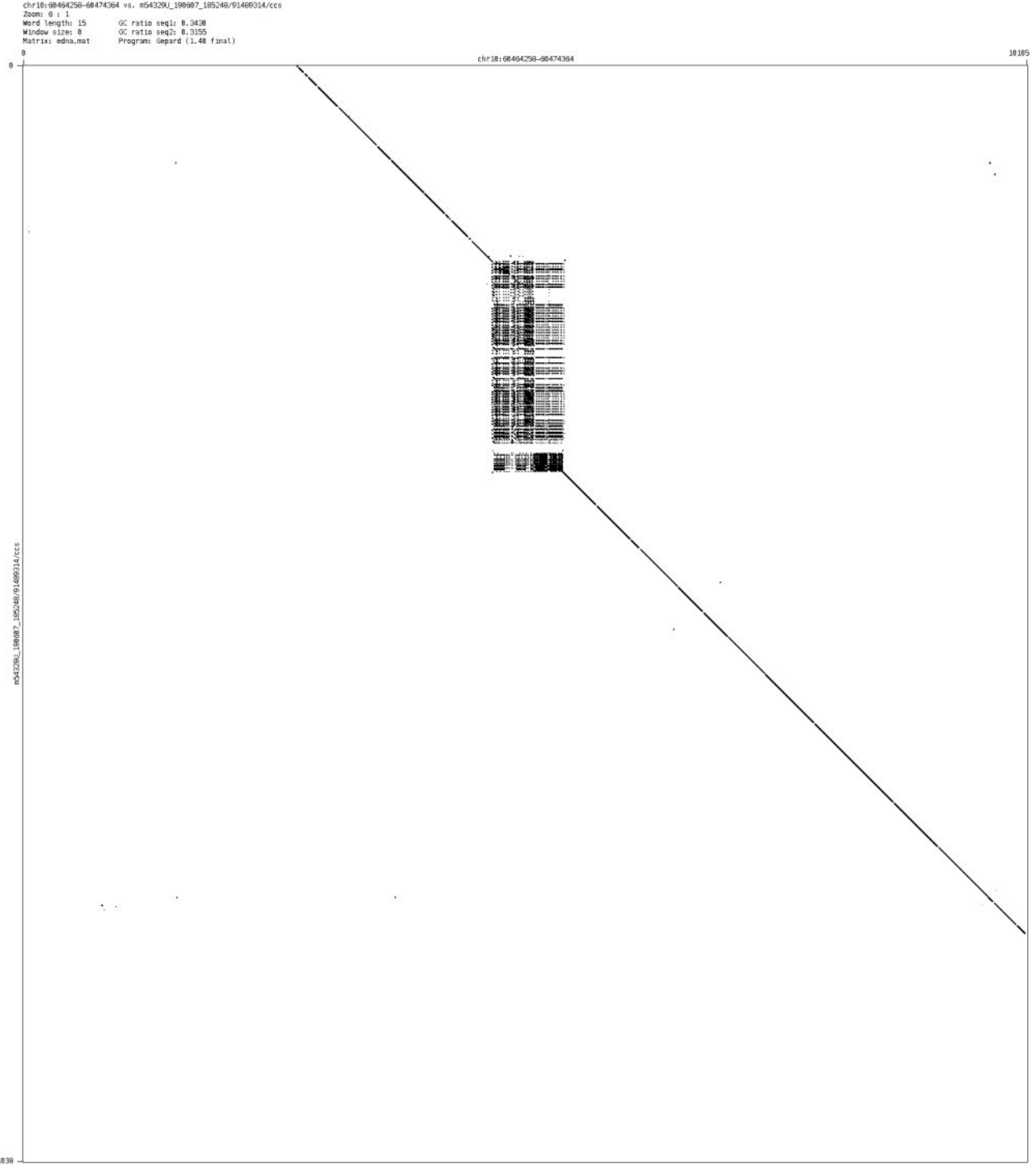


➤ chr10\_57496913\_57498588

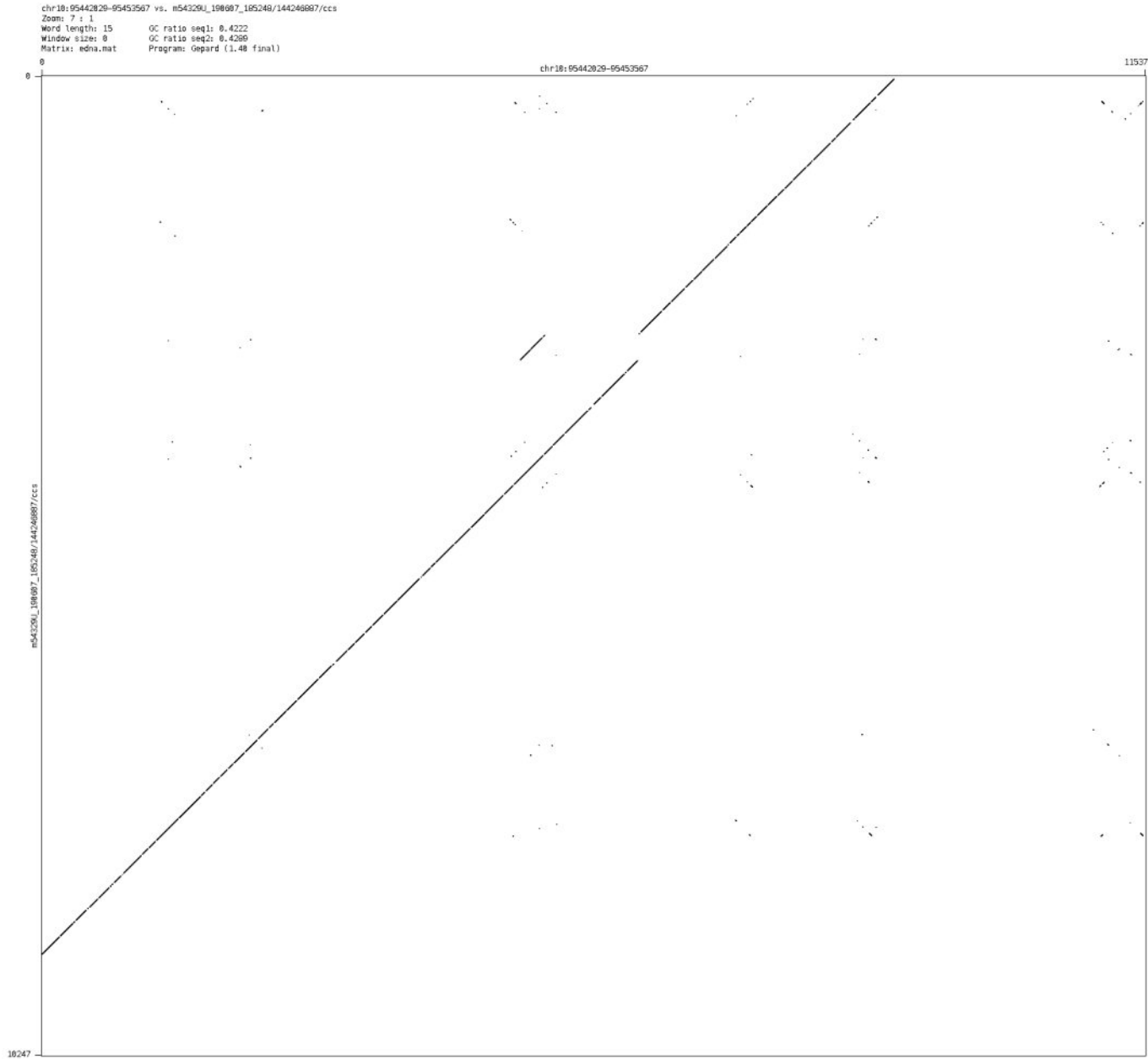




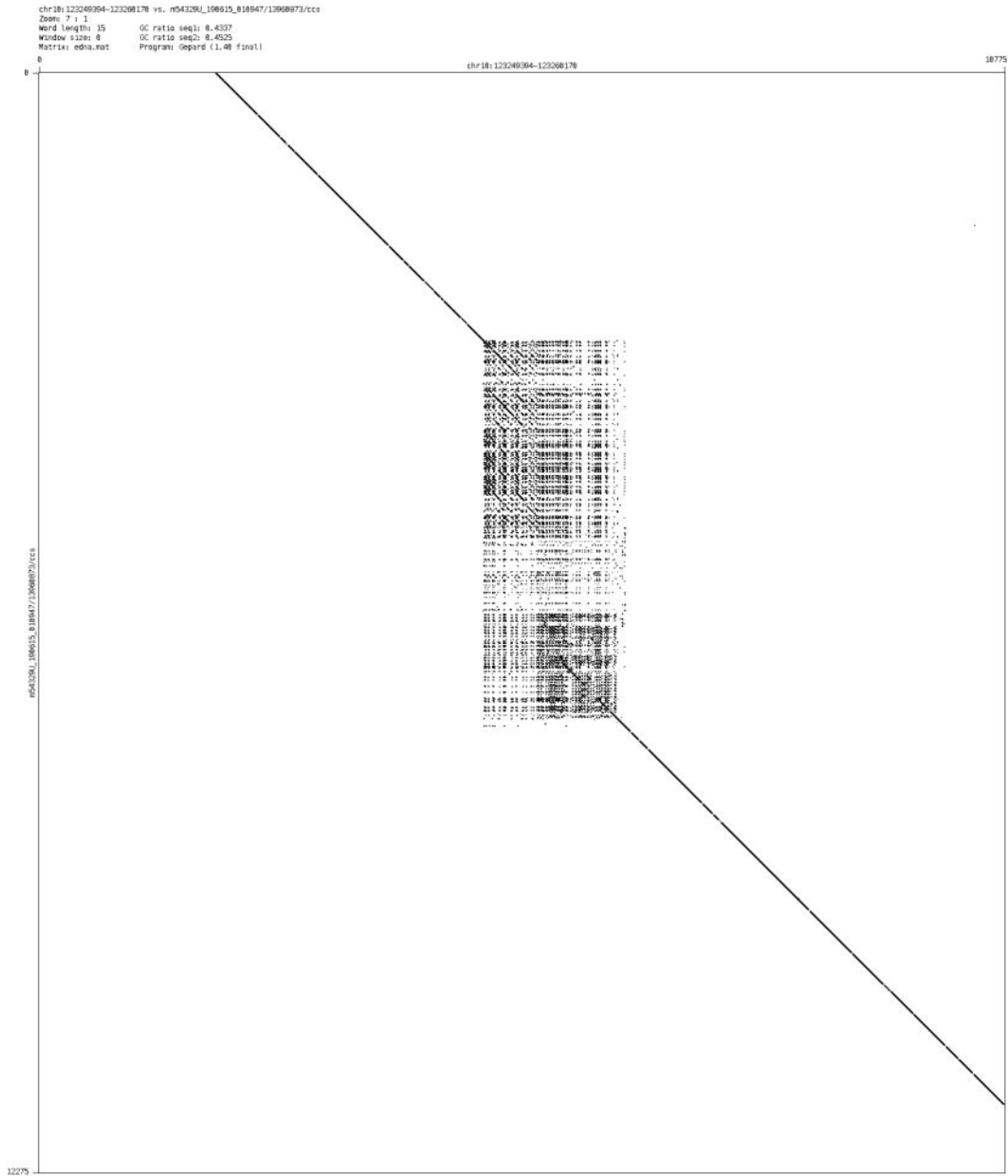
➤ chr10\_60469258\_60469364



➤ chr10\_95447029\_95448567

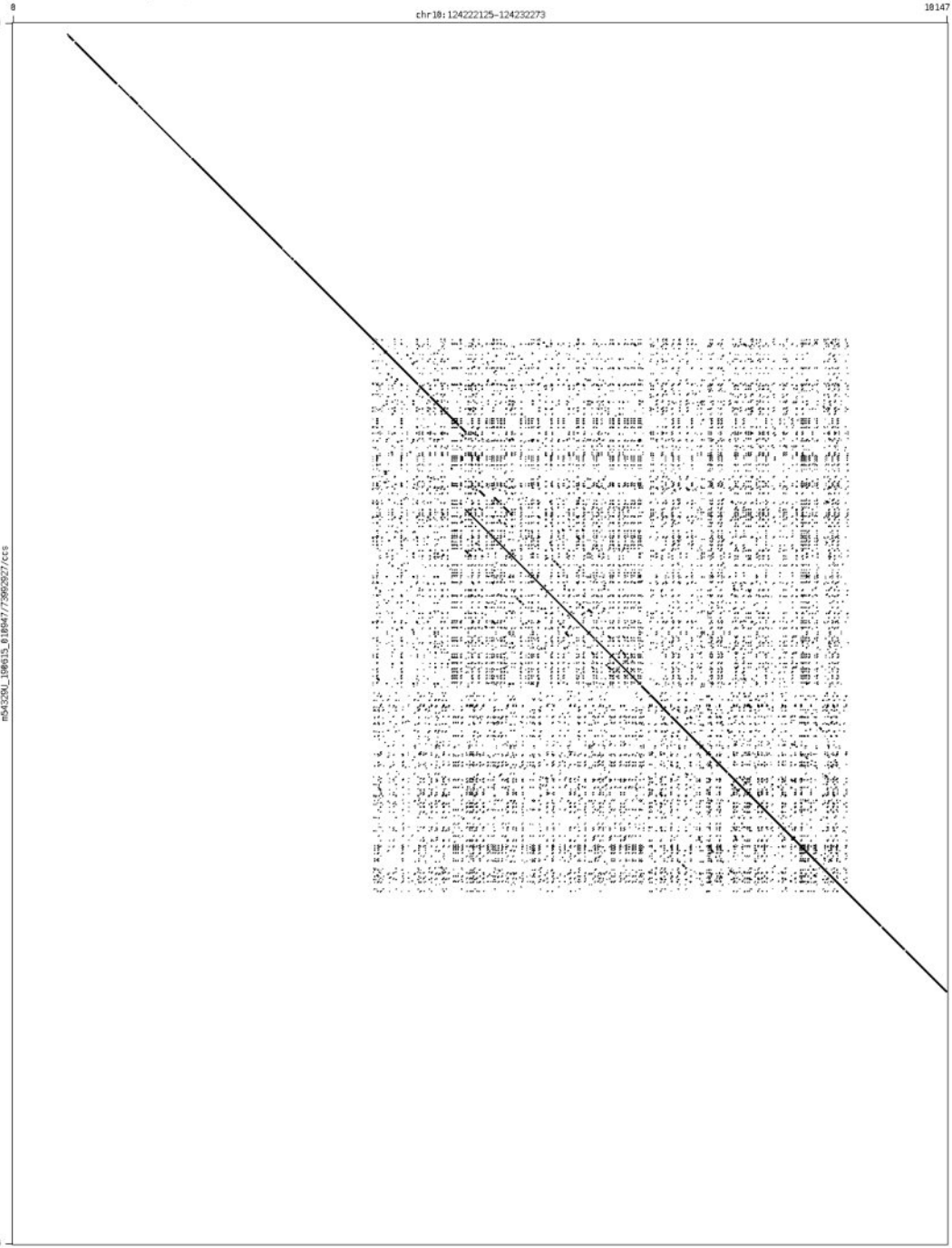


➤ chr10\_123254394\_123255170



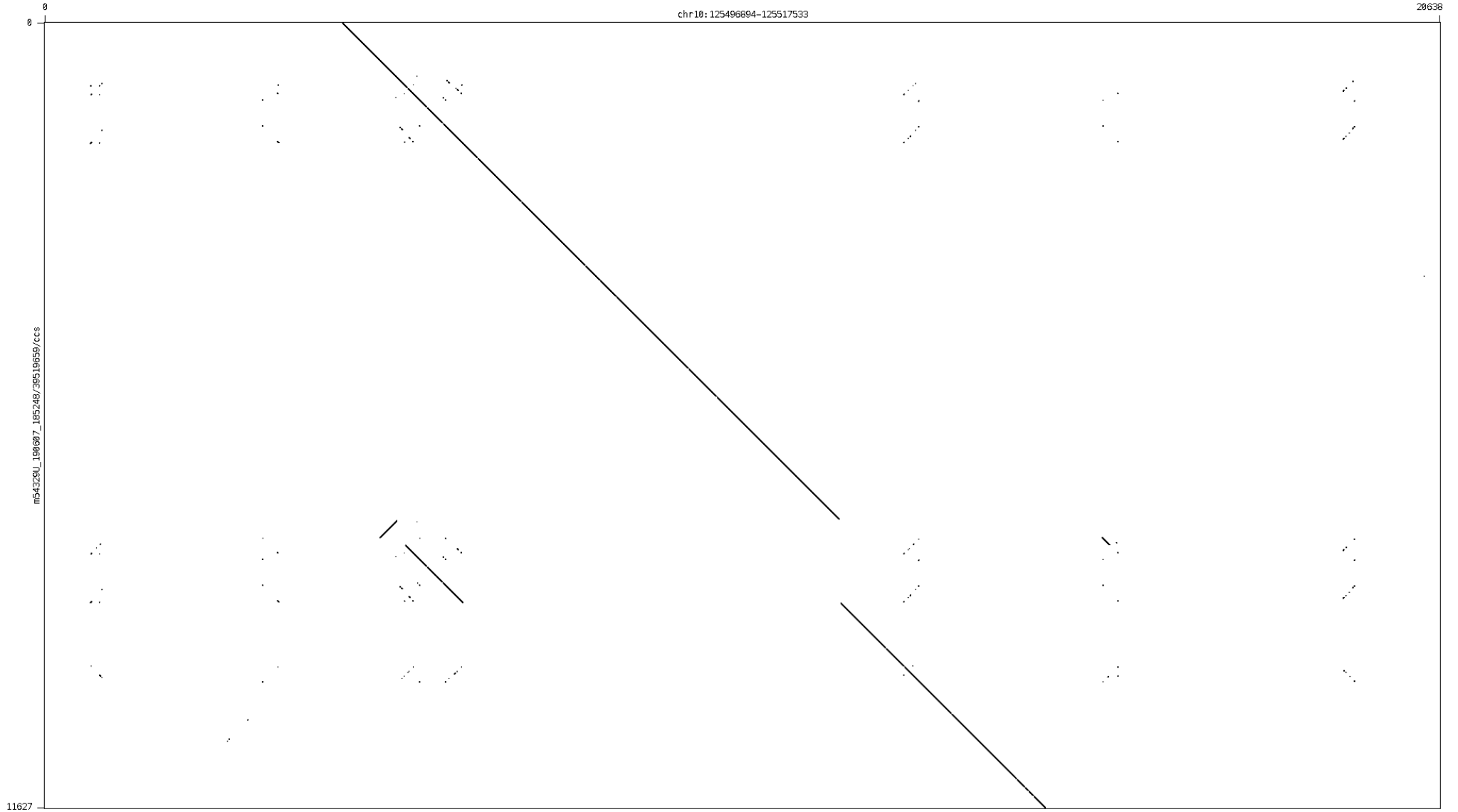
➤ chr10\_124227125\_124227273

chr10:124222125-124232273 vs. n543290\_160615\_010947/739902077/ccs

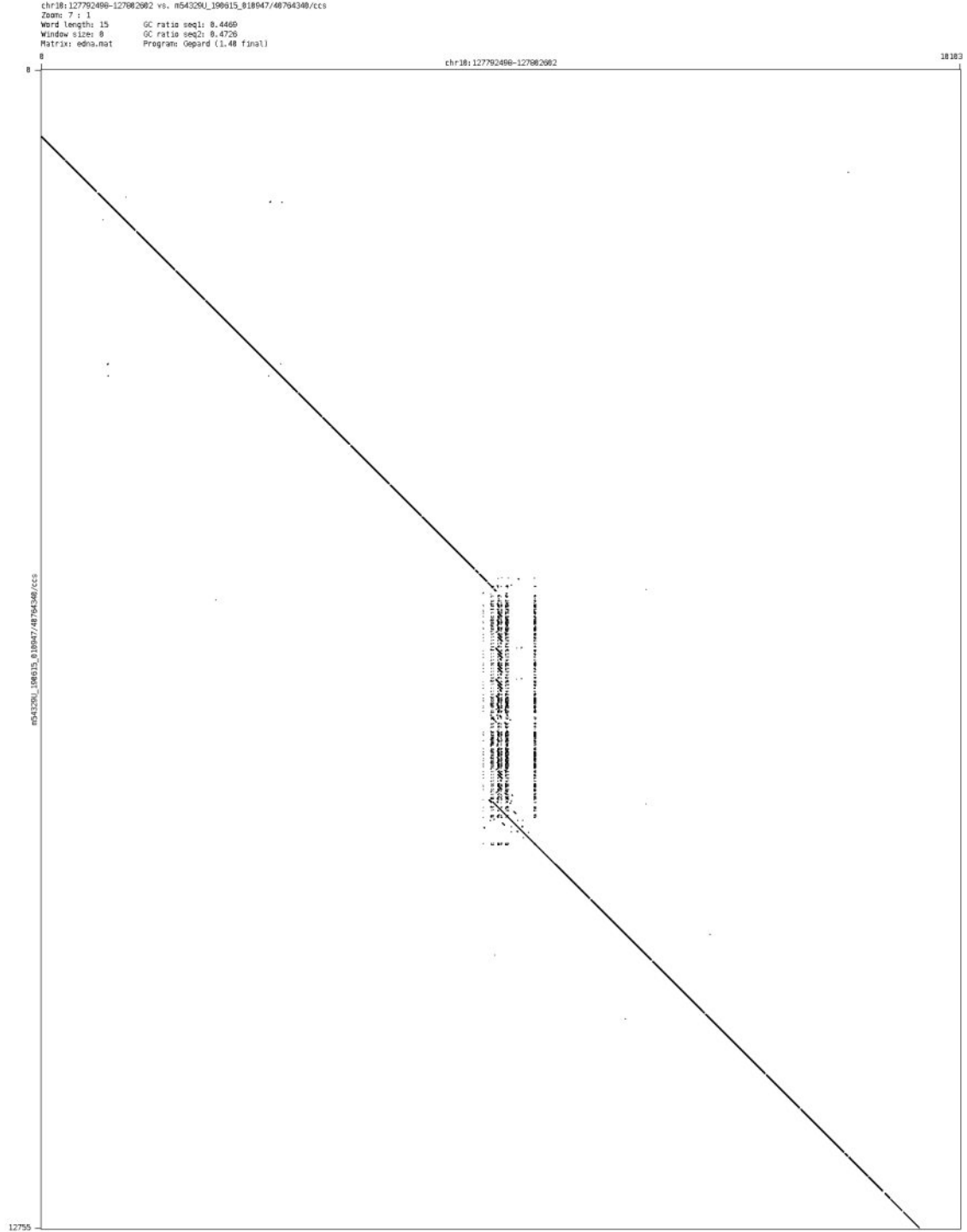


➤ chr10\_125501894\_125512533

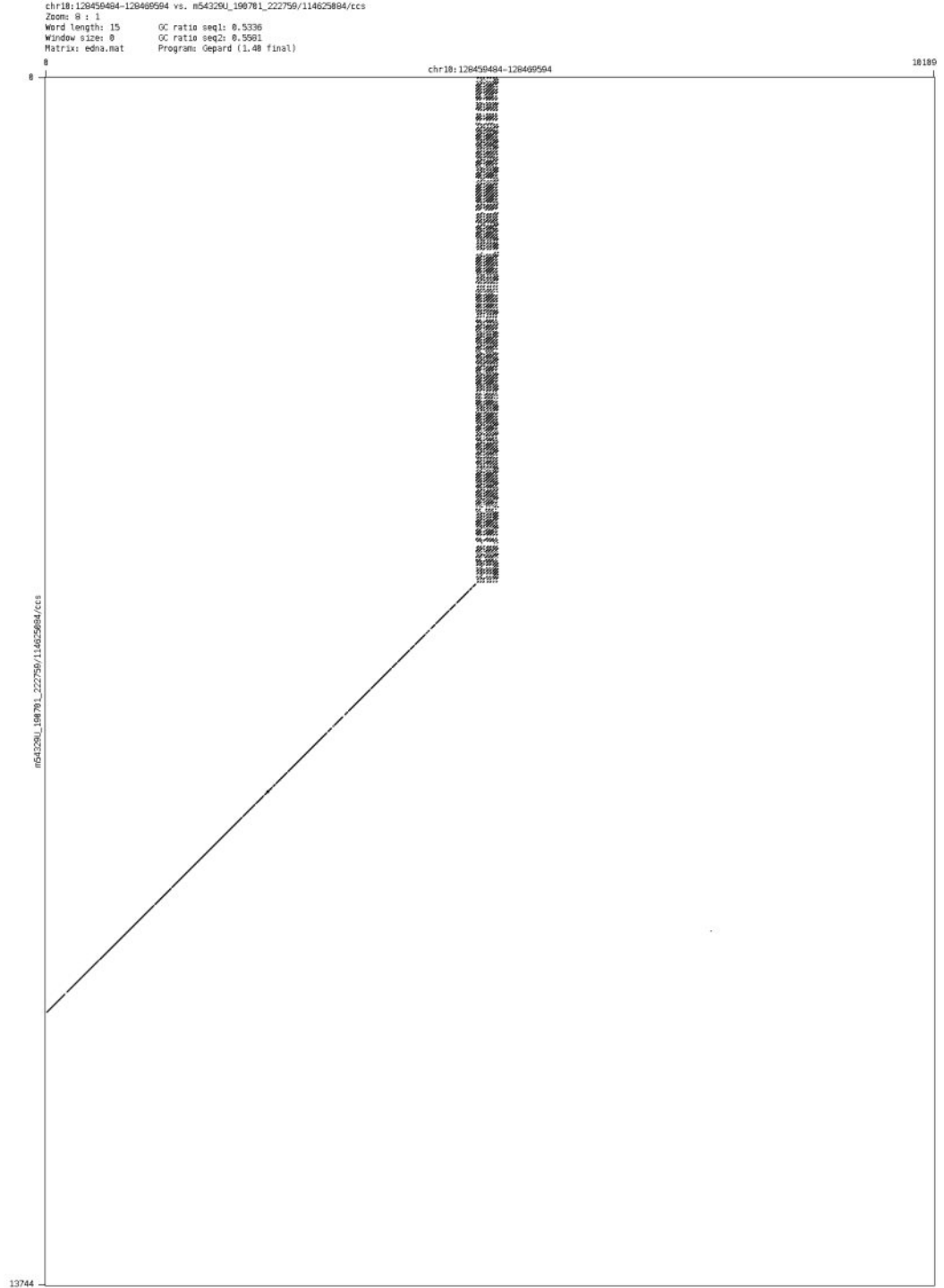
chr10:125496894-125517533 vs. m54329U\_190607\_185248/39519659/ccs  
Zoom: 11 : 1  
Word length: 15 GC ratio seq1: 0.4232  
Window size: 0 GC ratio seq2: 0.4210  
Matrix: edna.mat Program: Gepard (1.48 final)



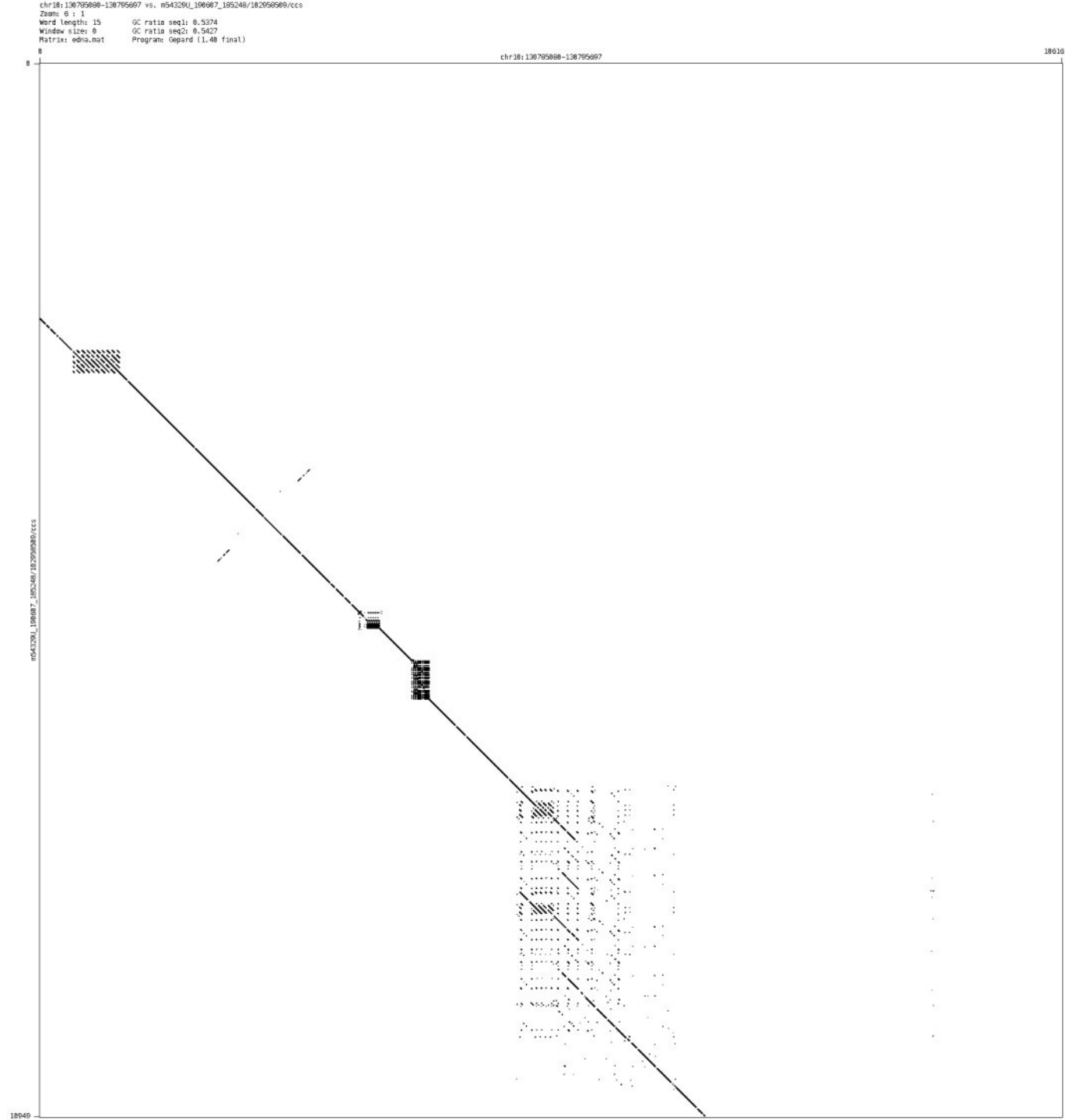
➤ chr10\_127797498\_127797602



➤ chr10\_128464484\_128464594

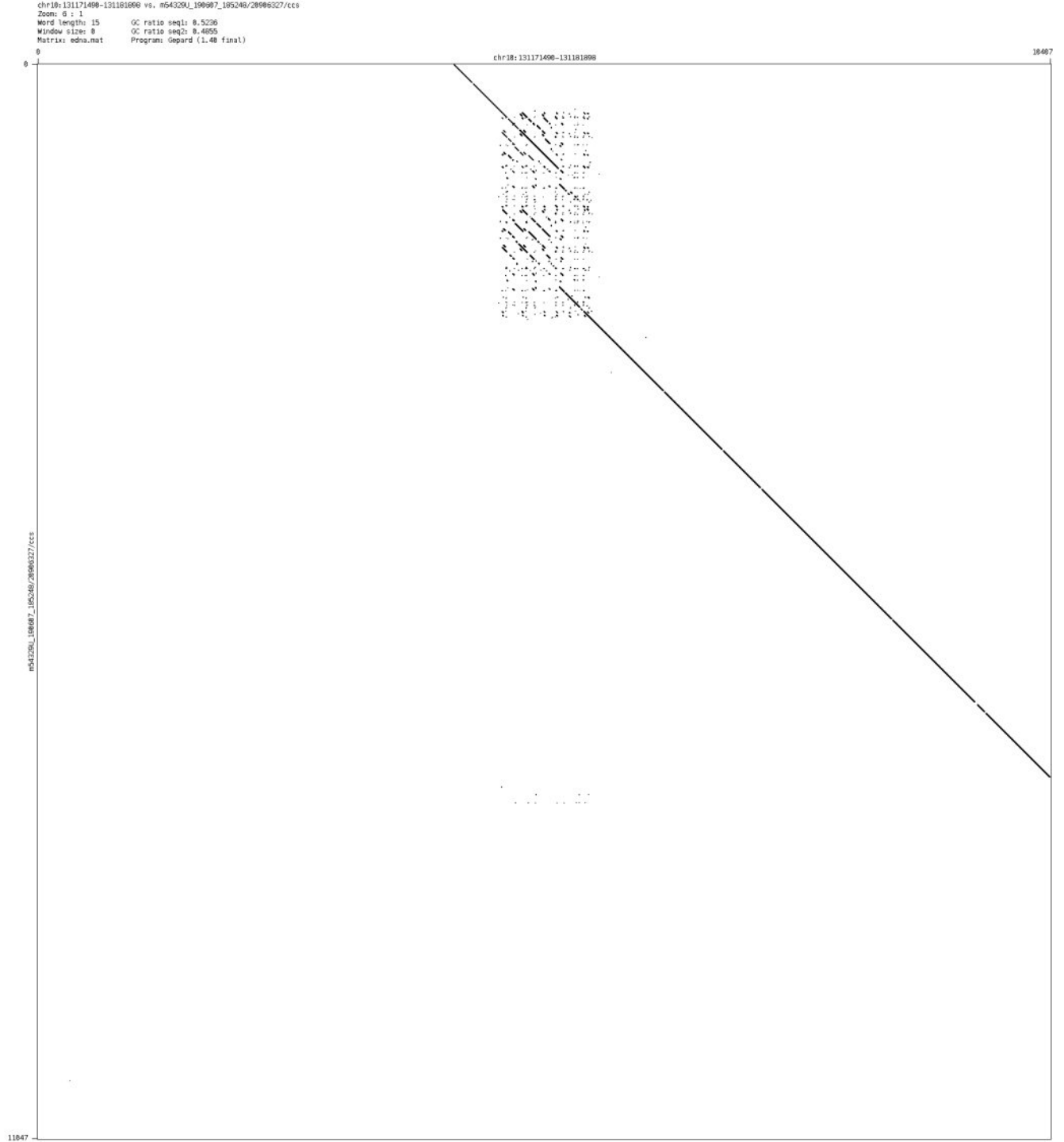


➤ chr10\_130790080\_130790697

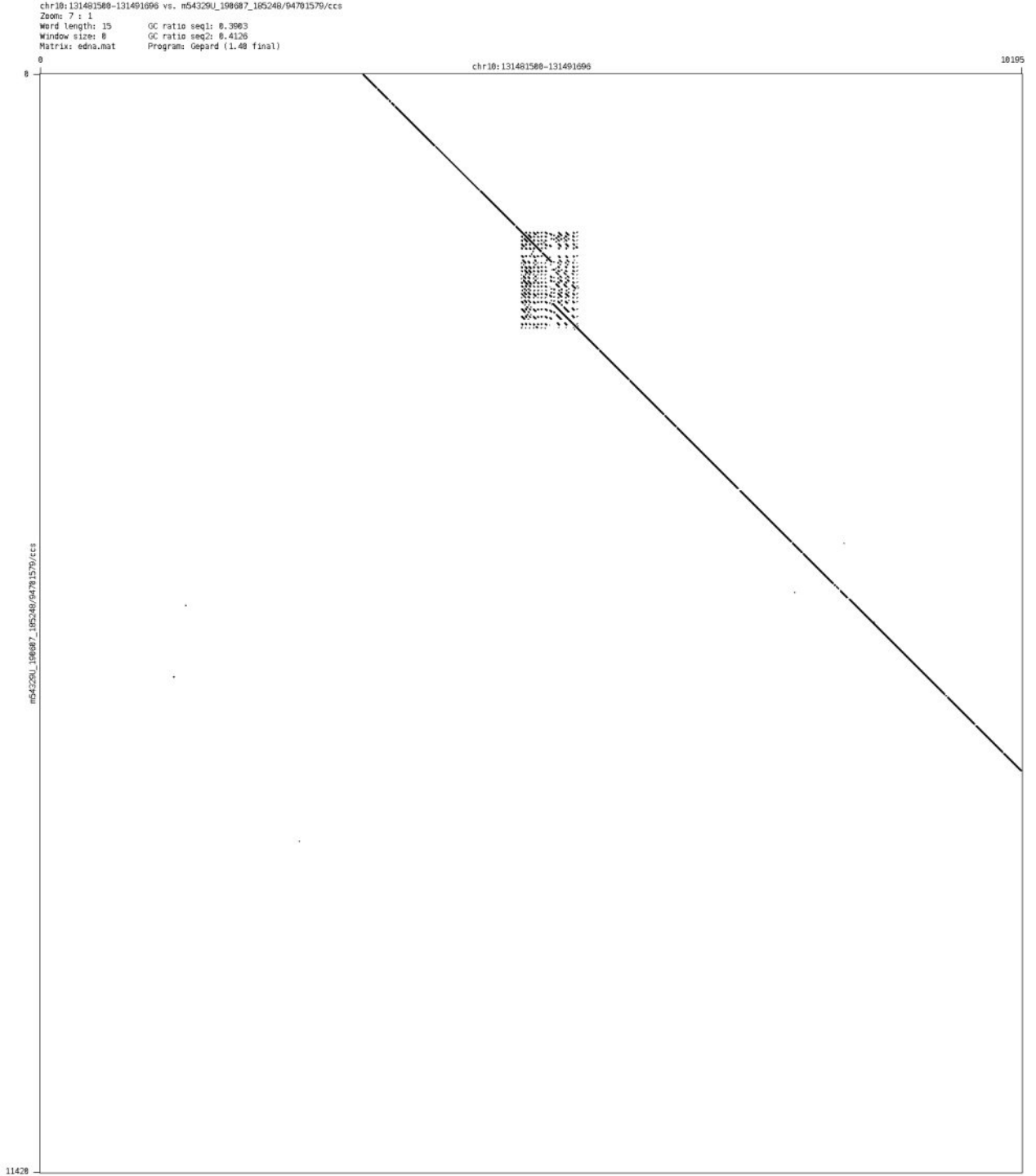




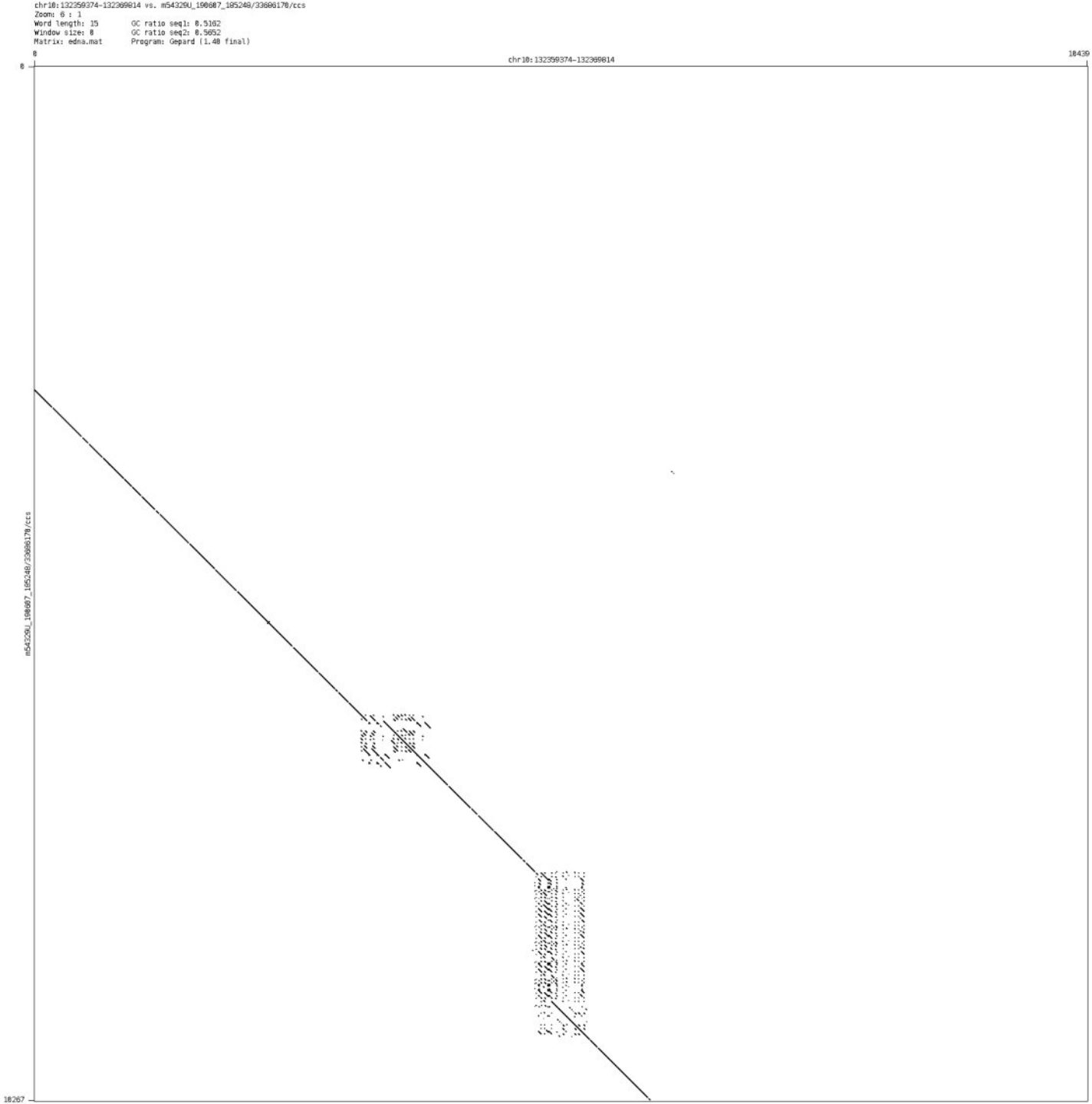
➤ chr10\_131176490\_131176898



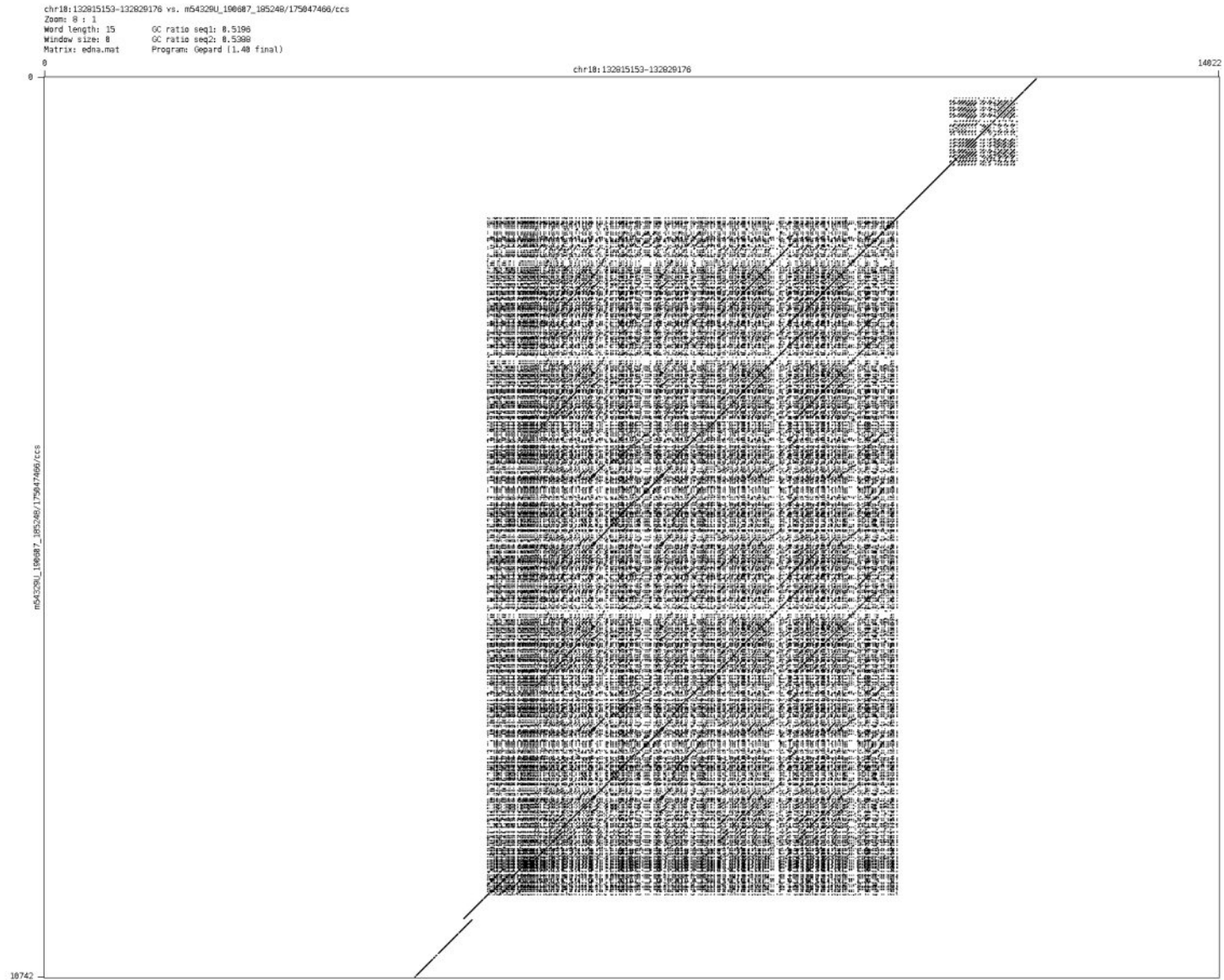
➤ chr10\_131486500\_131486696



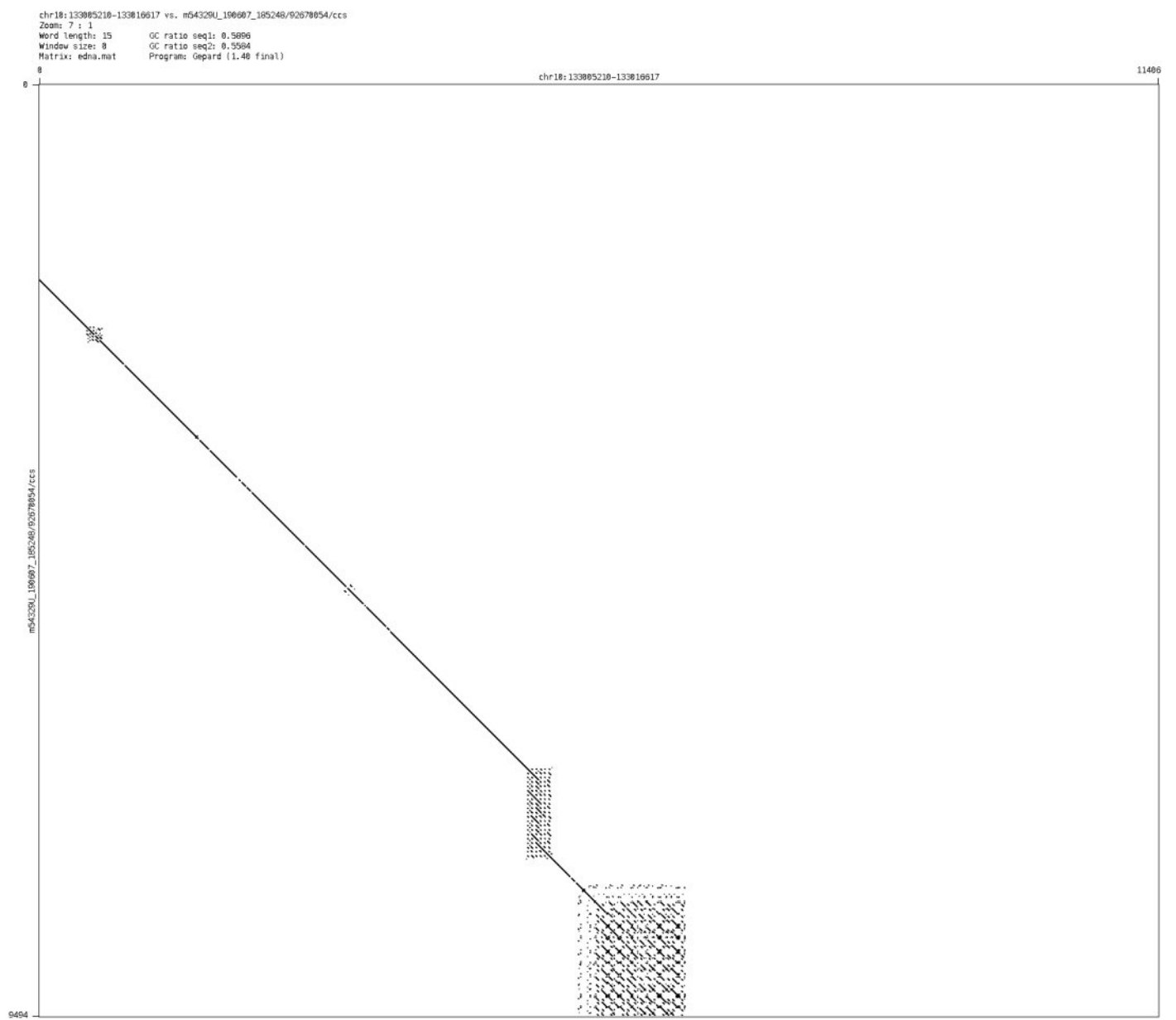
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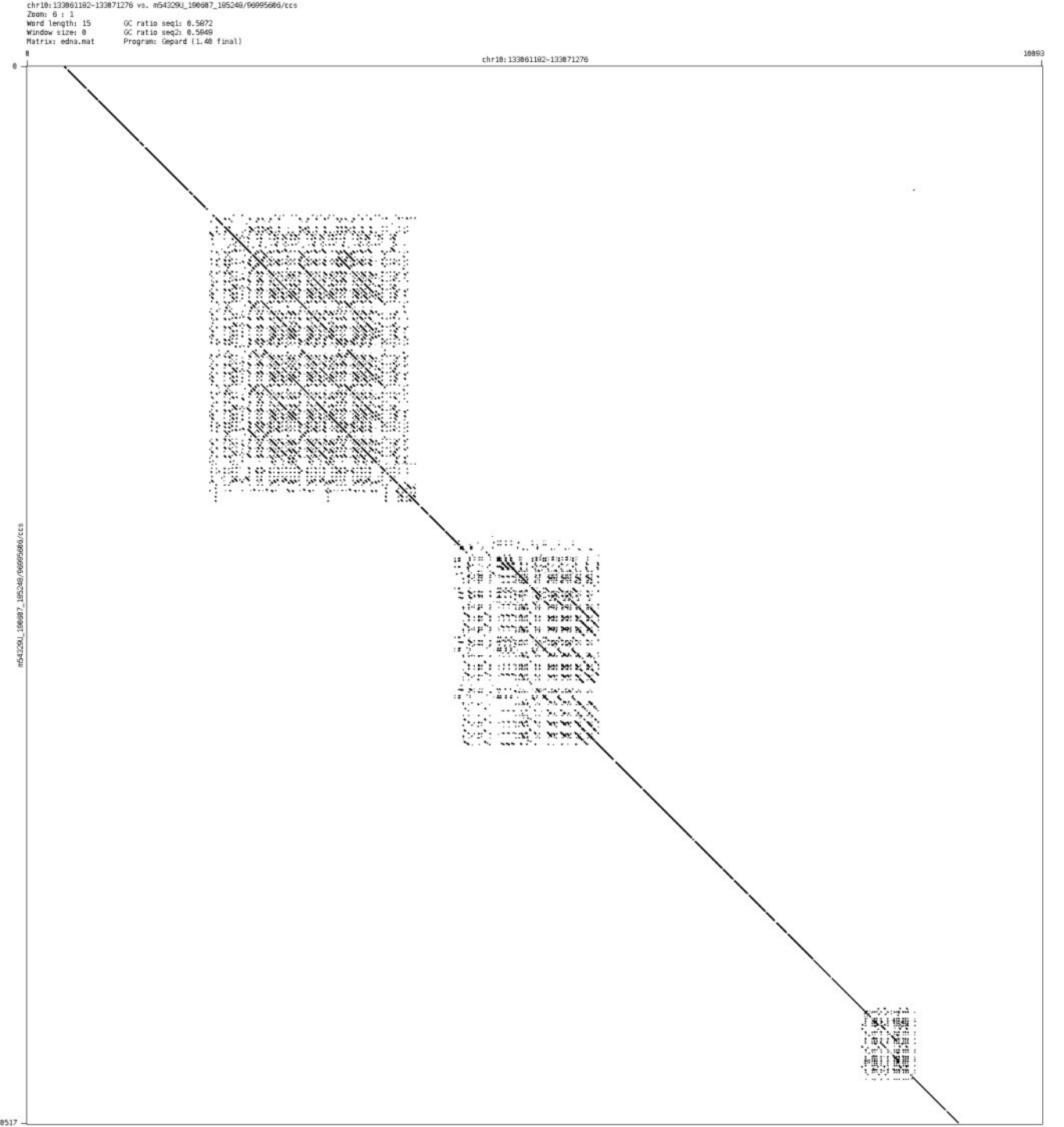
➤ chr10\_132820153\_132824176



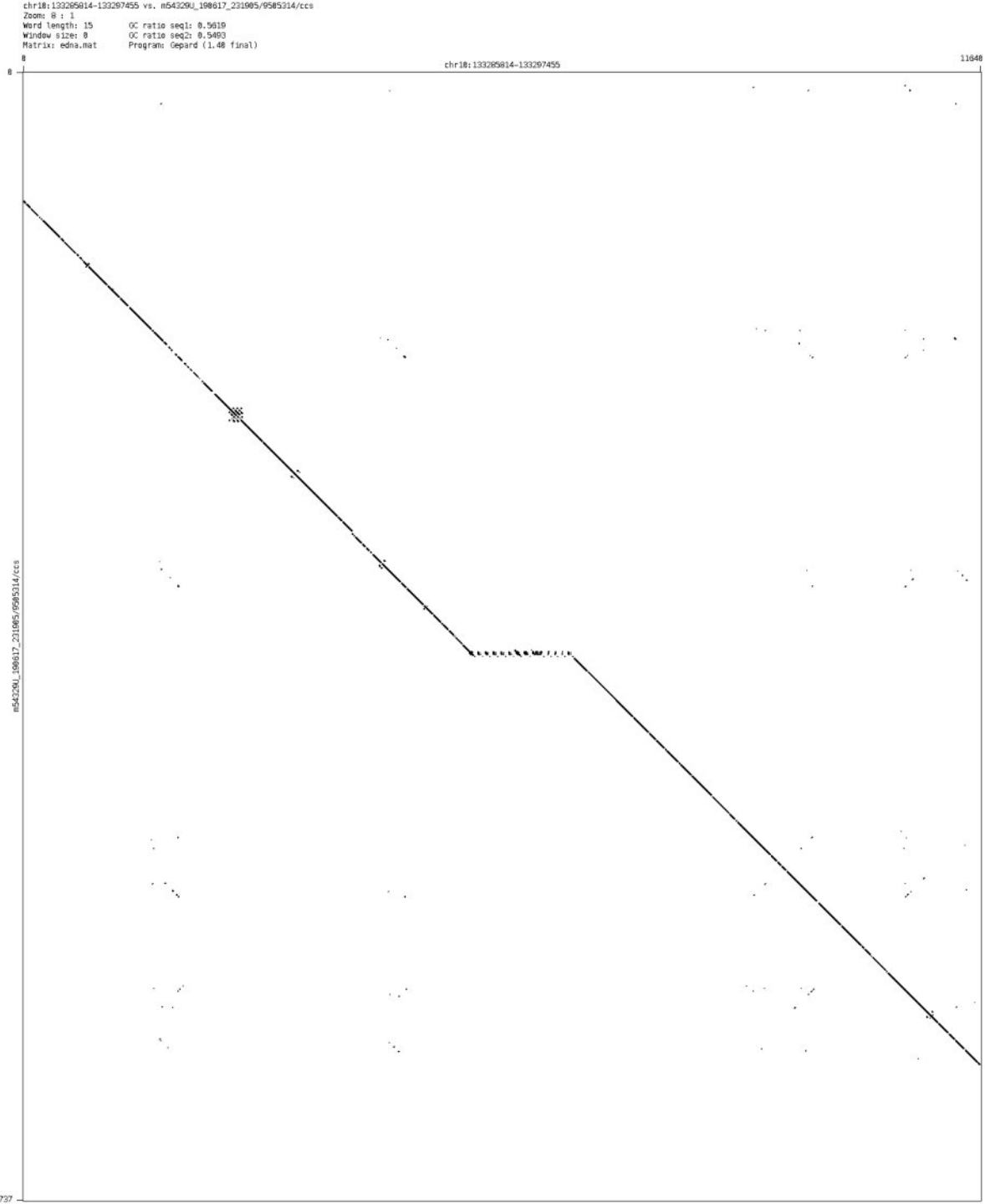
➤ chr10\_133010210\_133011617



➤ chr10\_133066182\_133066276

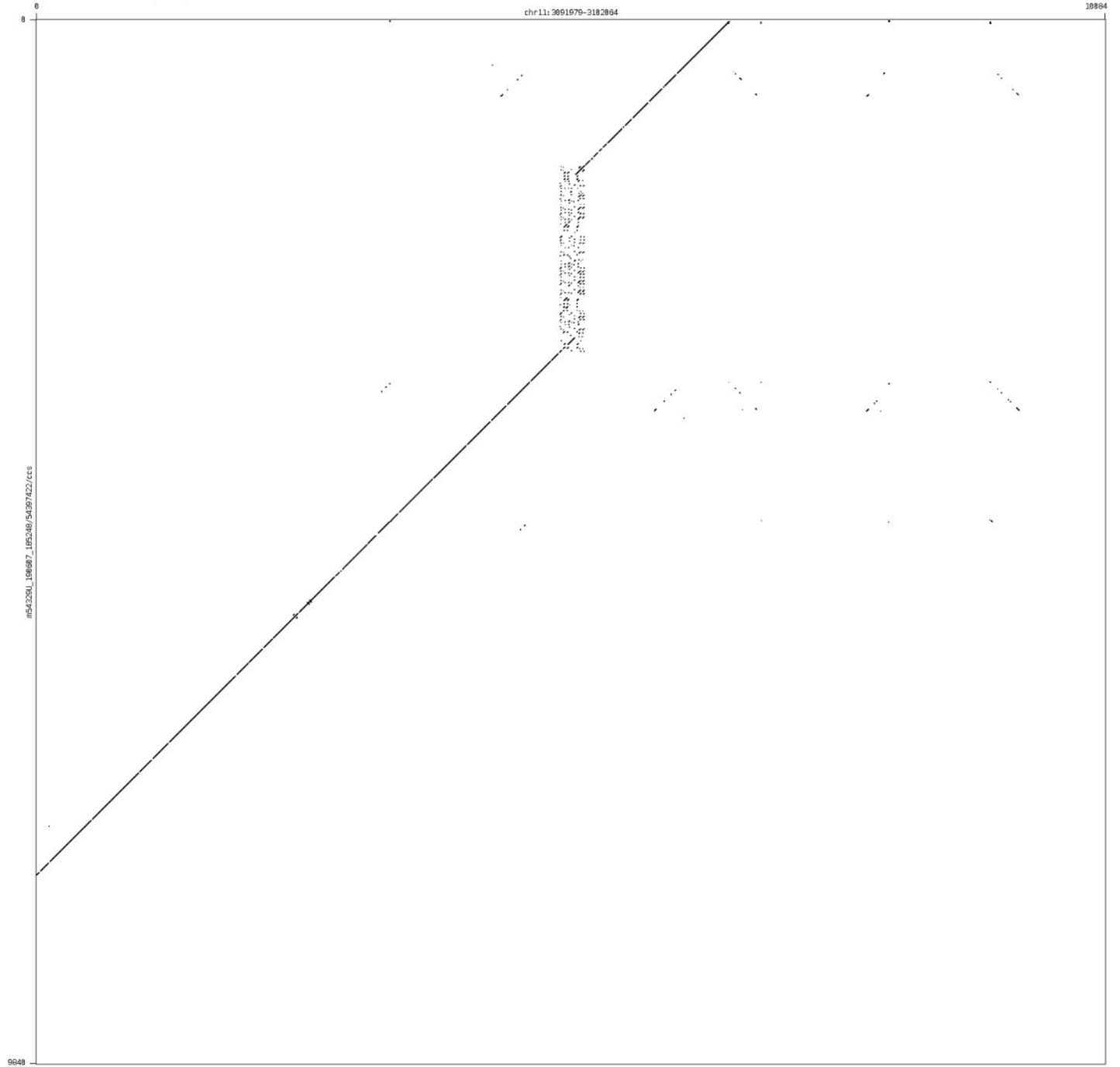


➤ chr10\_133290814\_133292455



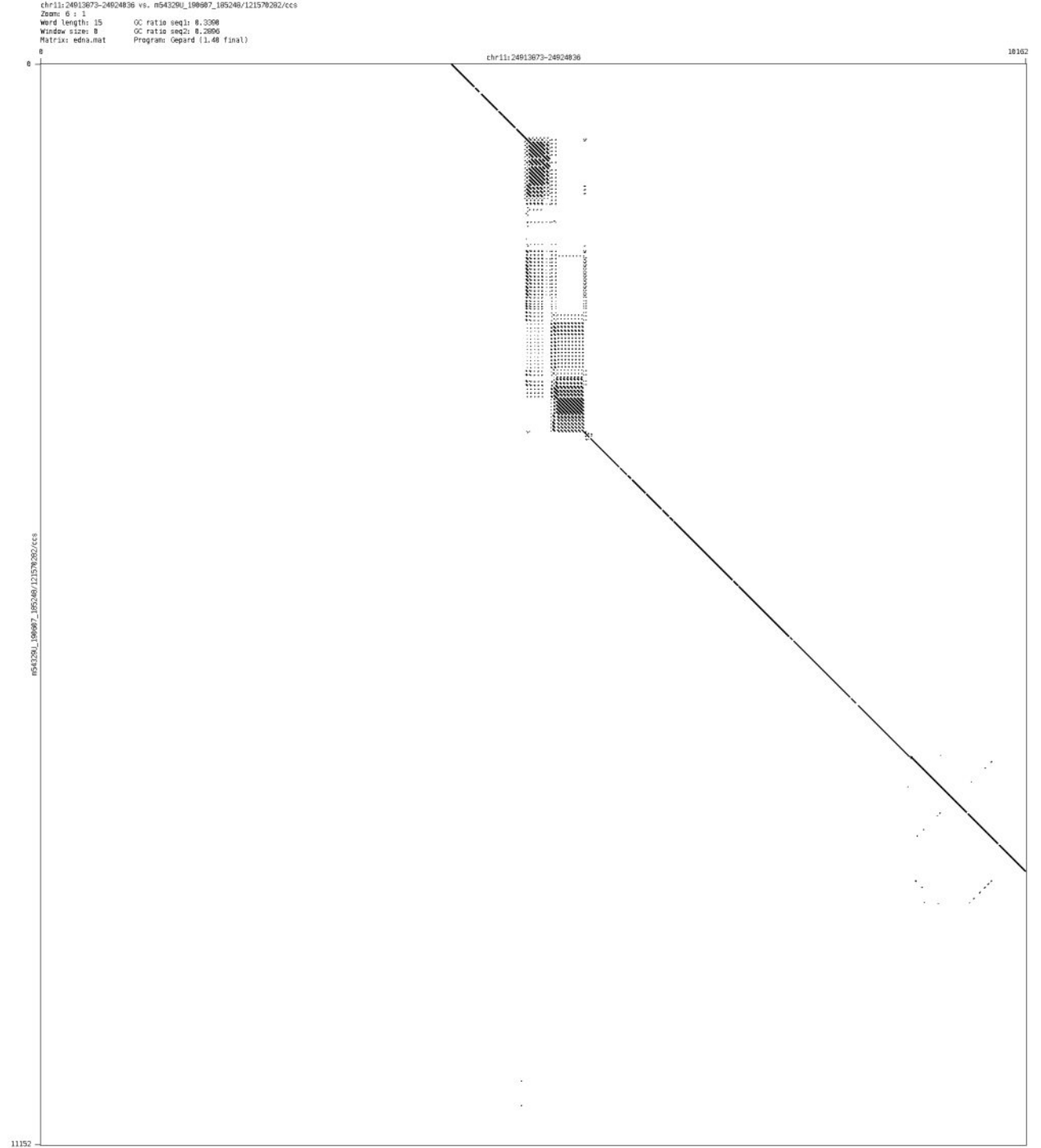
➤ chr11\_3096979\_3097064

chr11:3091979-3182864 vs. m543250\_198987\_185248/54397422/ccs  
Zoom: 0 : 1  
Word length: 15 GC ratio seq1: 0.5291  
Window size: 0 GC ratio seq2: 0.5621  
Matrix: edna.mat Program: Oepard (1.40 final)

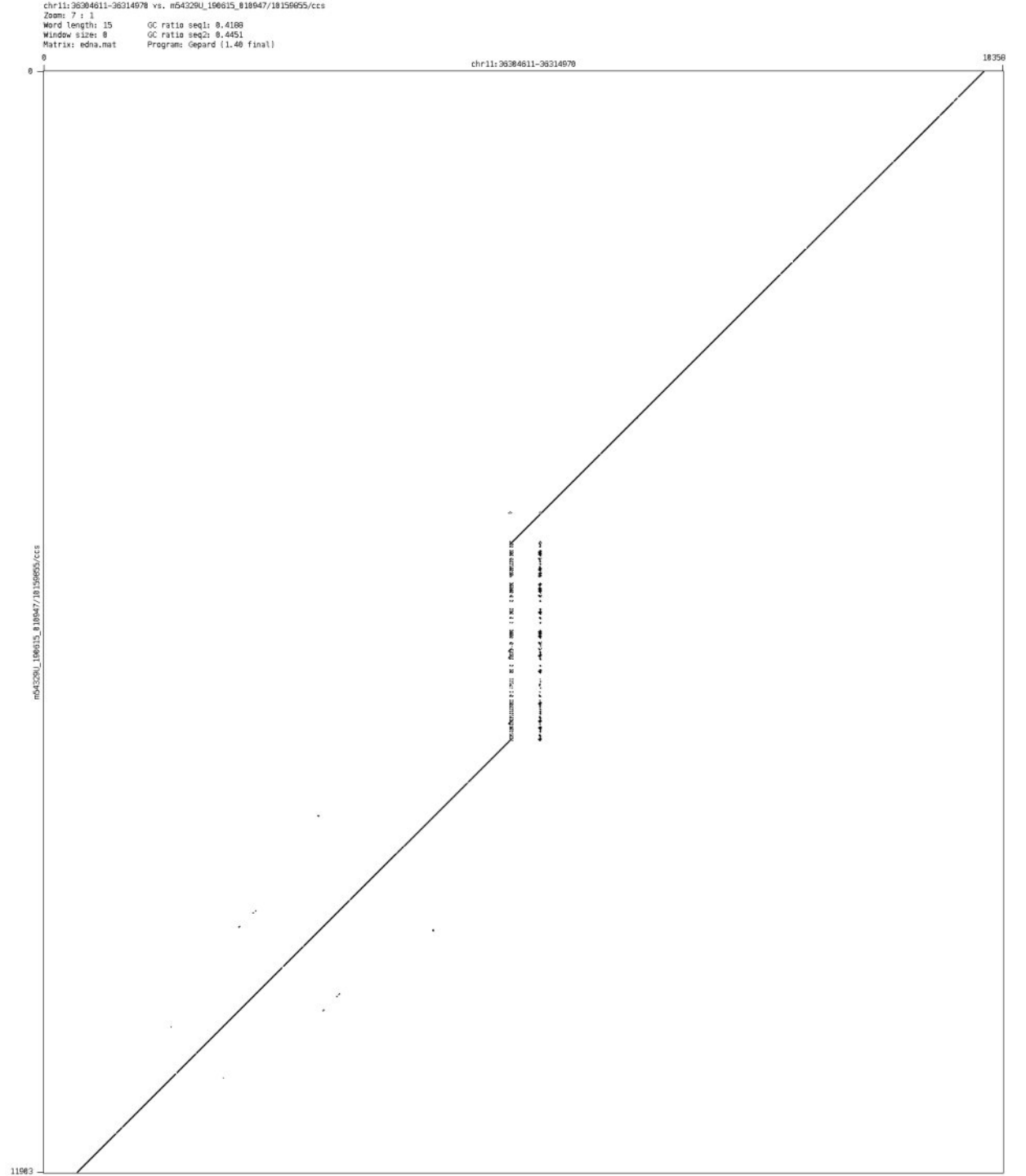




➤ chr11\_24918873\_24919036

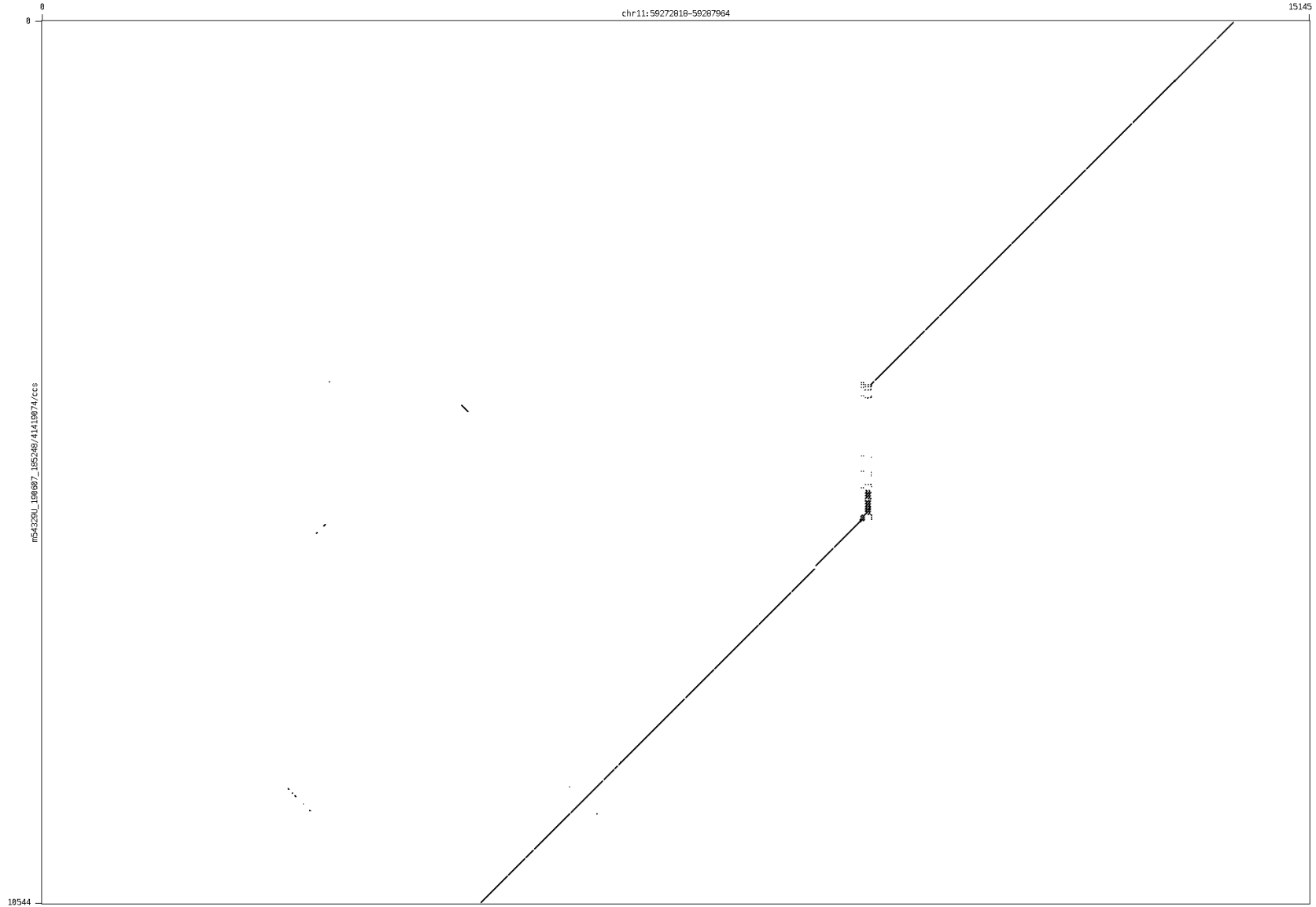


➤ chr11\_36309611\_36309970

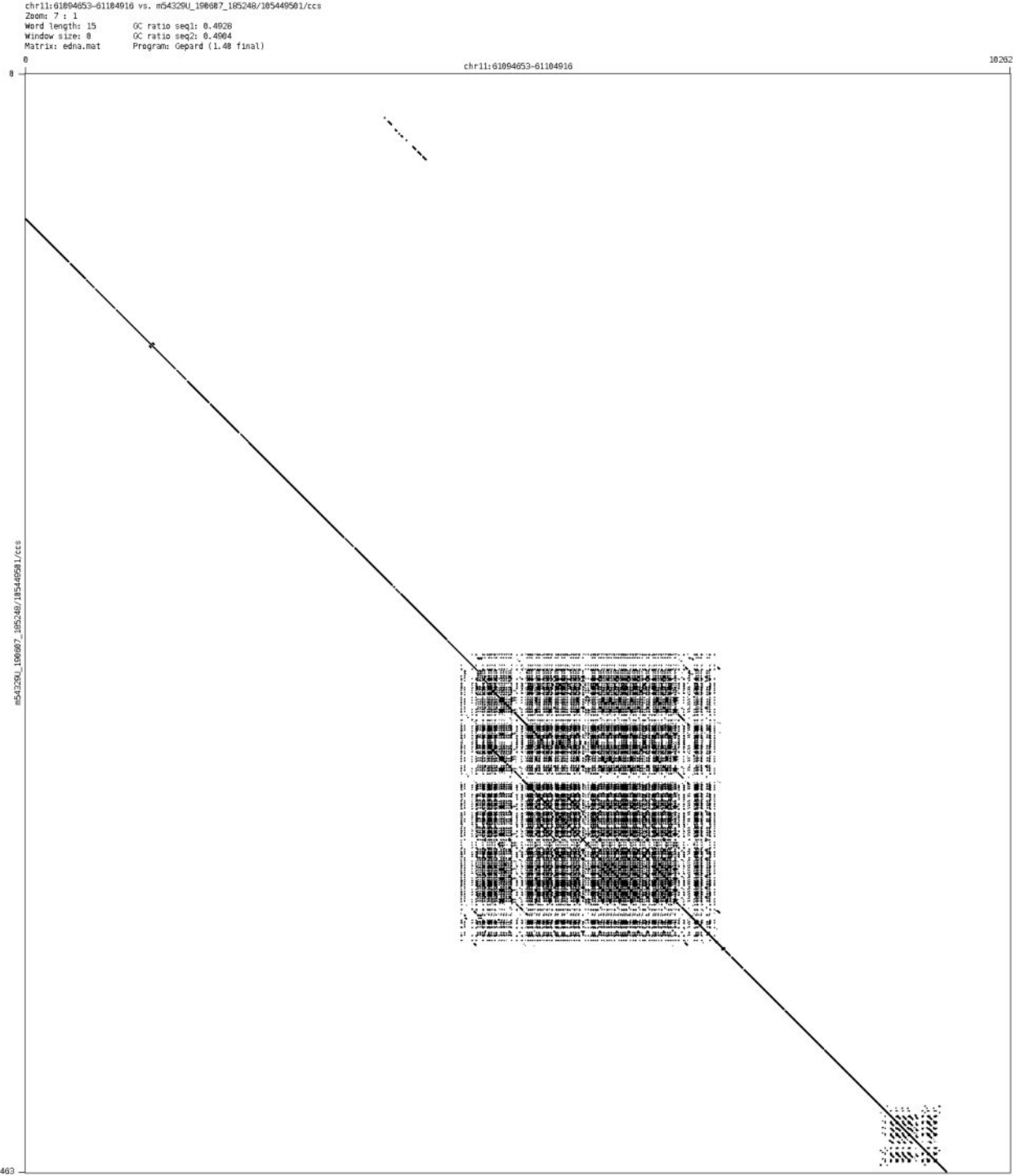


➤ chr11\_59277818\_59282964

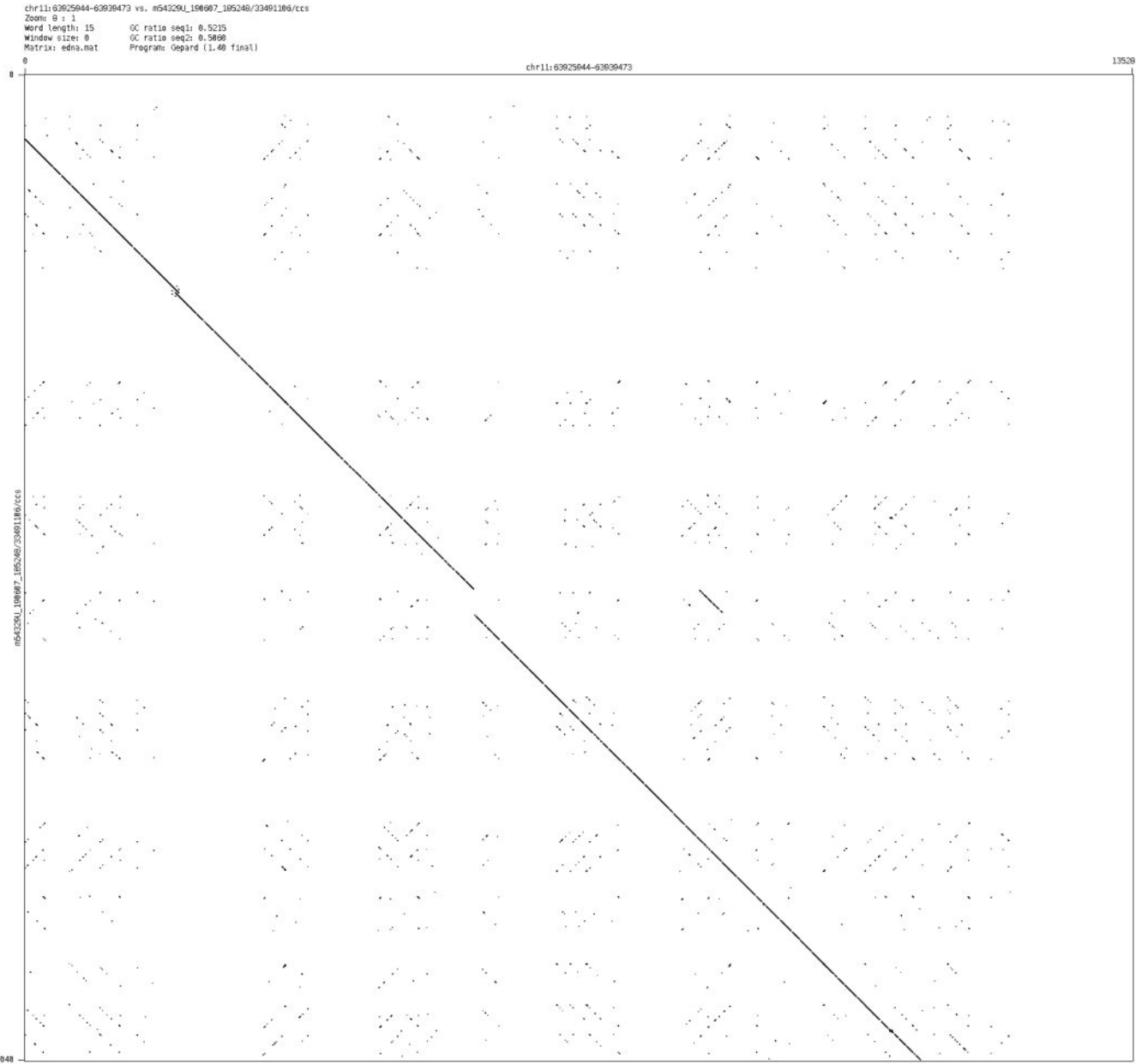
chr11:59272818-59287964 vs. m54329U\_190697\_185248/41419074/ccs  
Zoom: 8 : 1  
Word length: 15 GC ratio seq1: 0.4598  
Window size: 0 GC ratio seq2: 0.3949  
Matrix: edna.mat Program: Gepard (1.40 final)



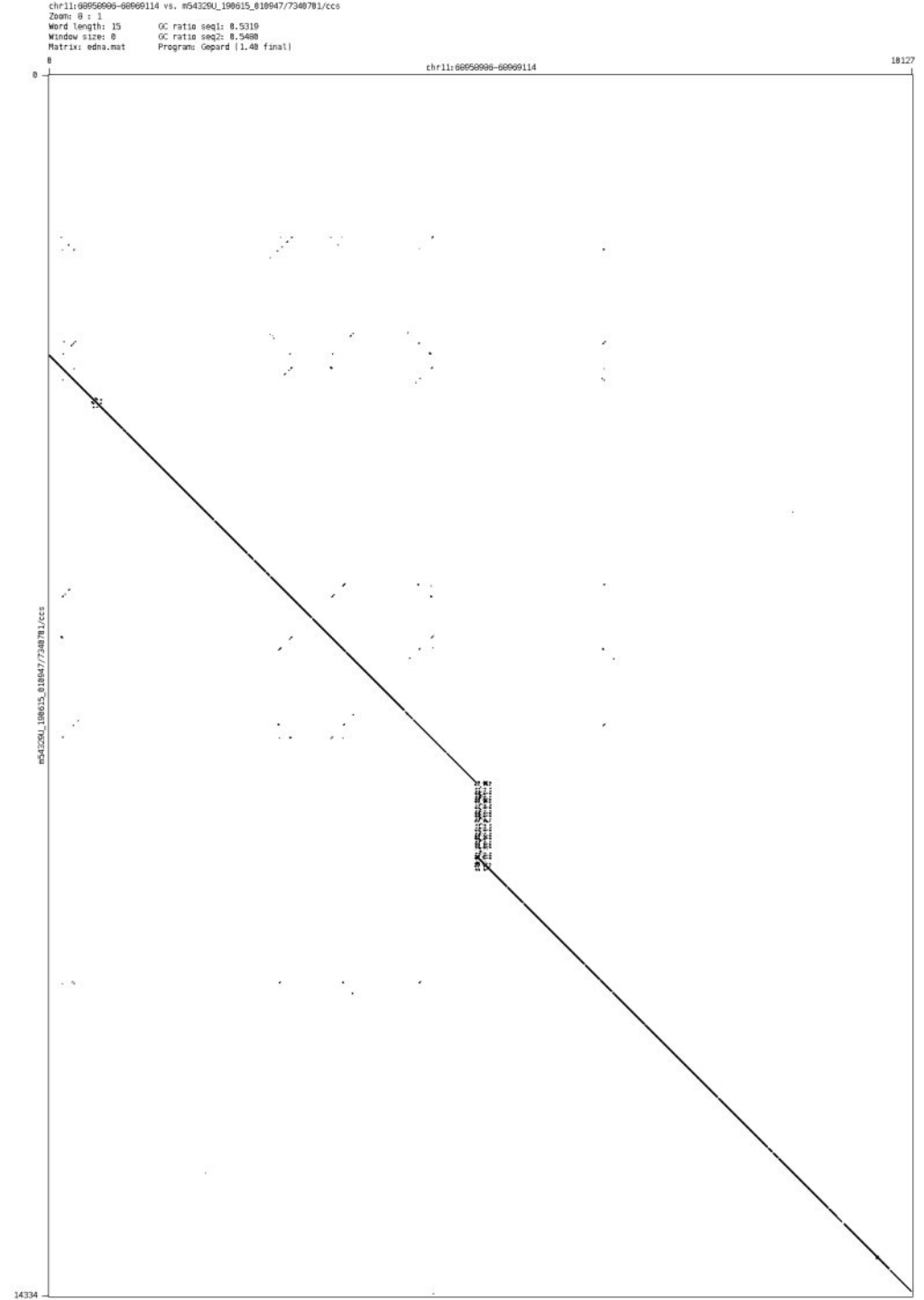
➤ chr11\_61099653\_61099916



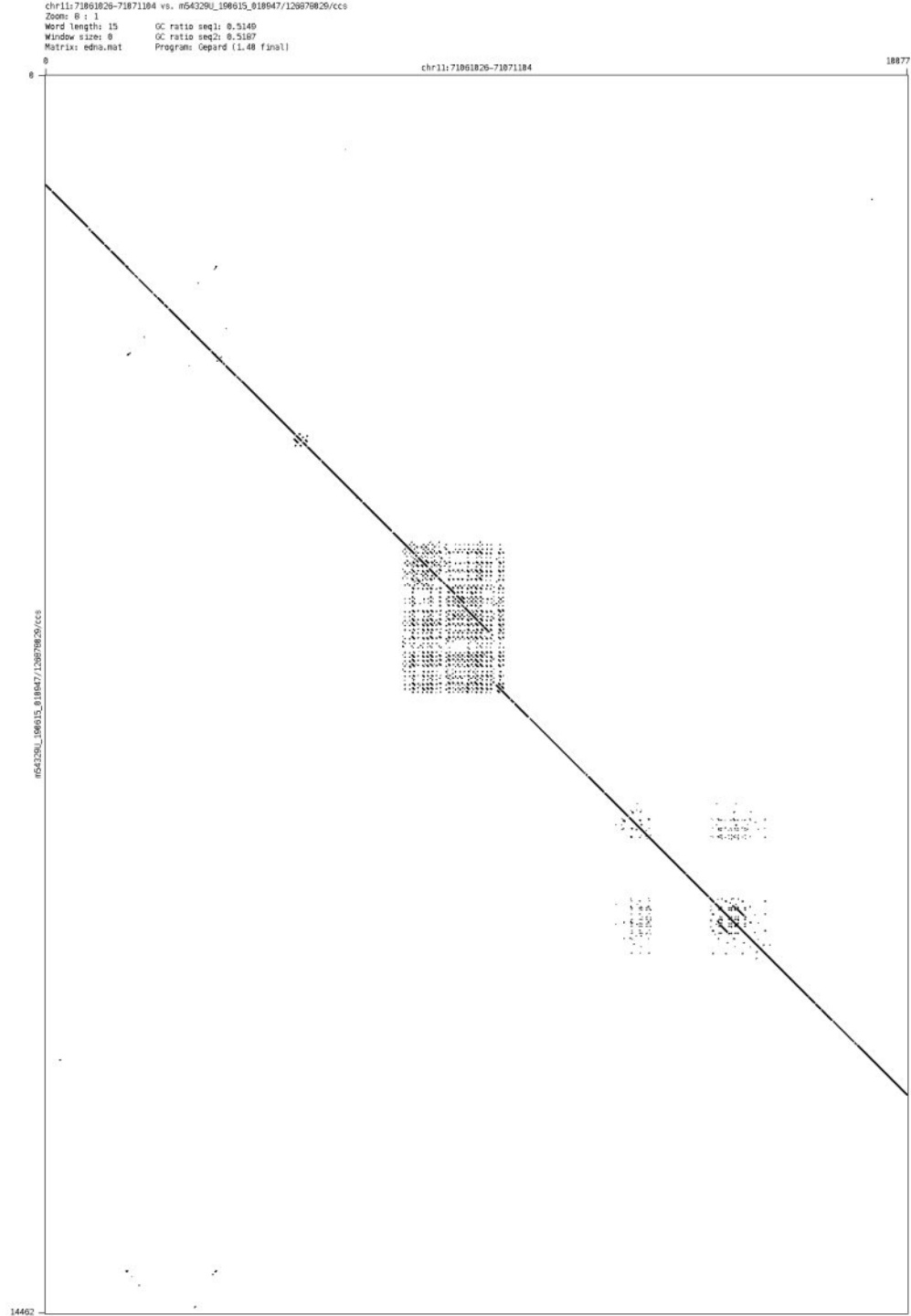
➤ chr11\_63930944\_63934473



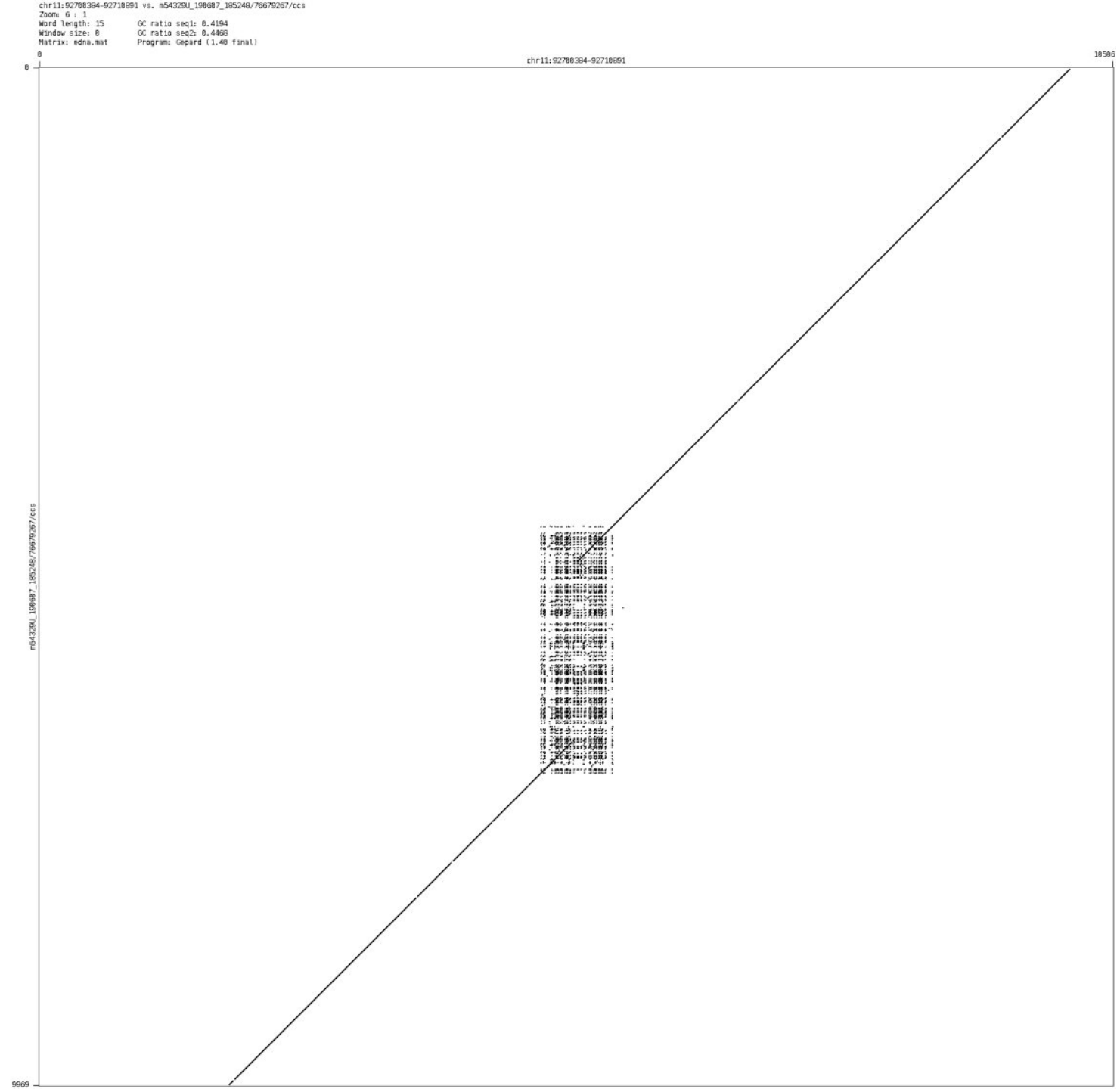
➤ chr11\_68963986\_68964114



➤ chr11\_71066026\_71066104

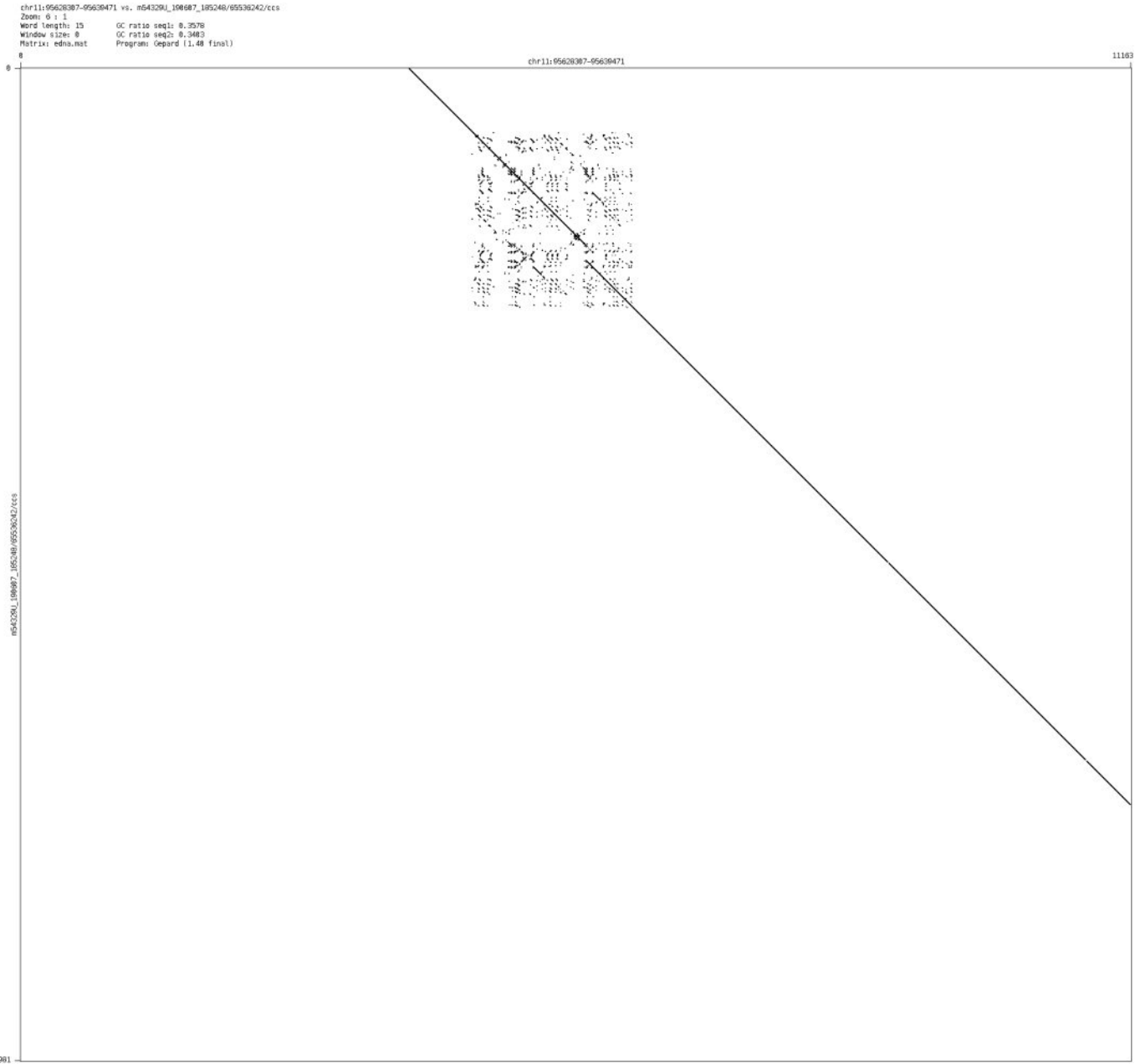


➤ chr11\_92705384\_92705891



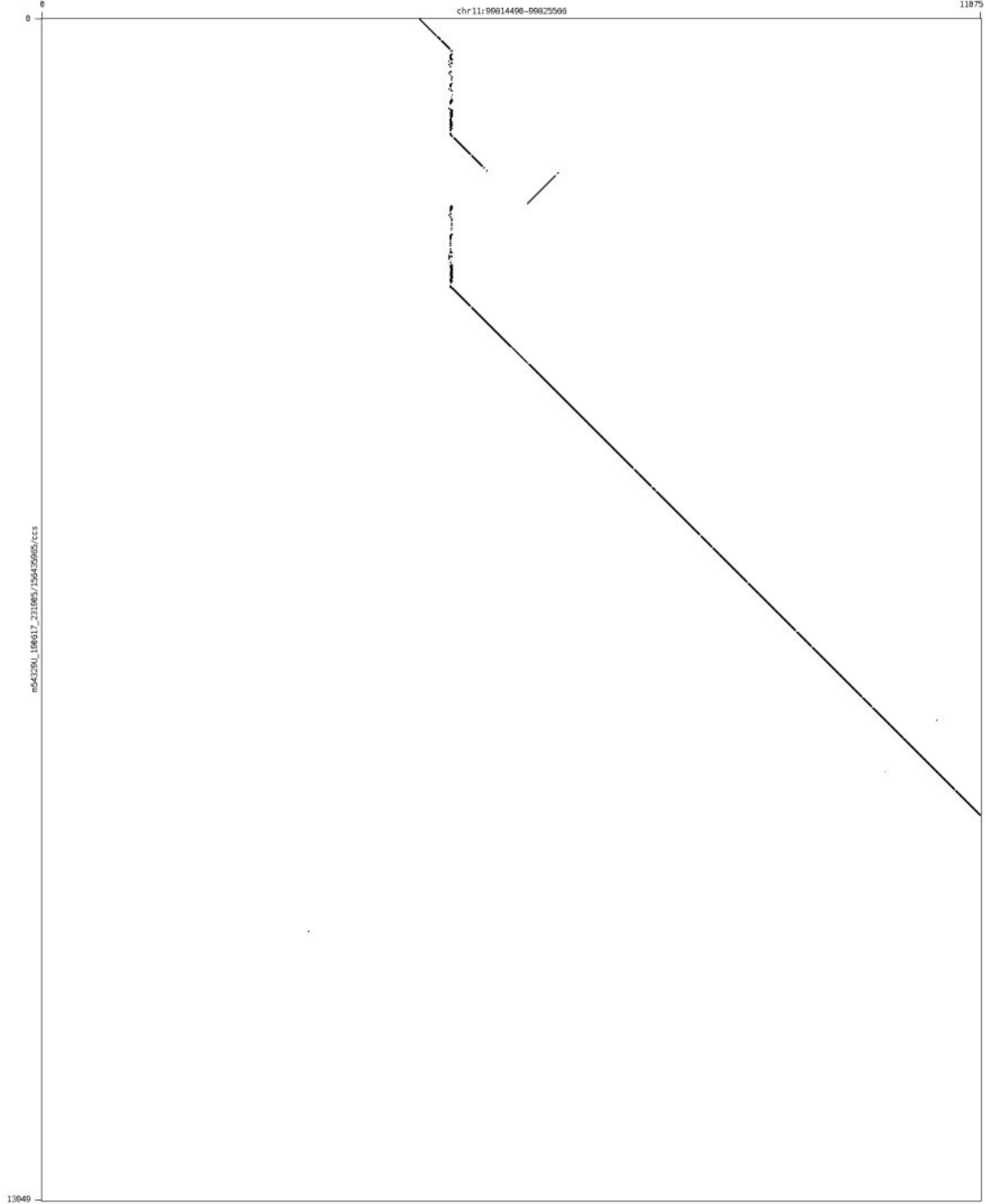


➤ chr11\_95633307\_95634471

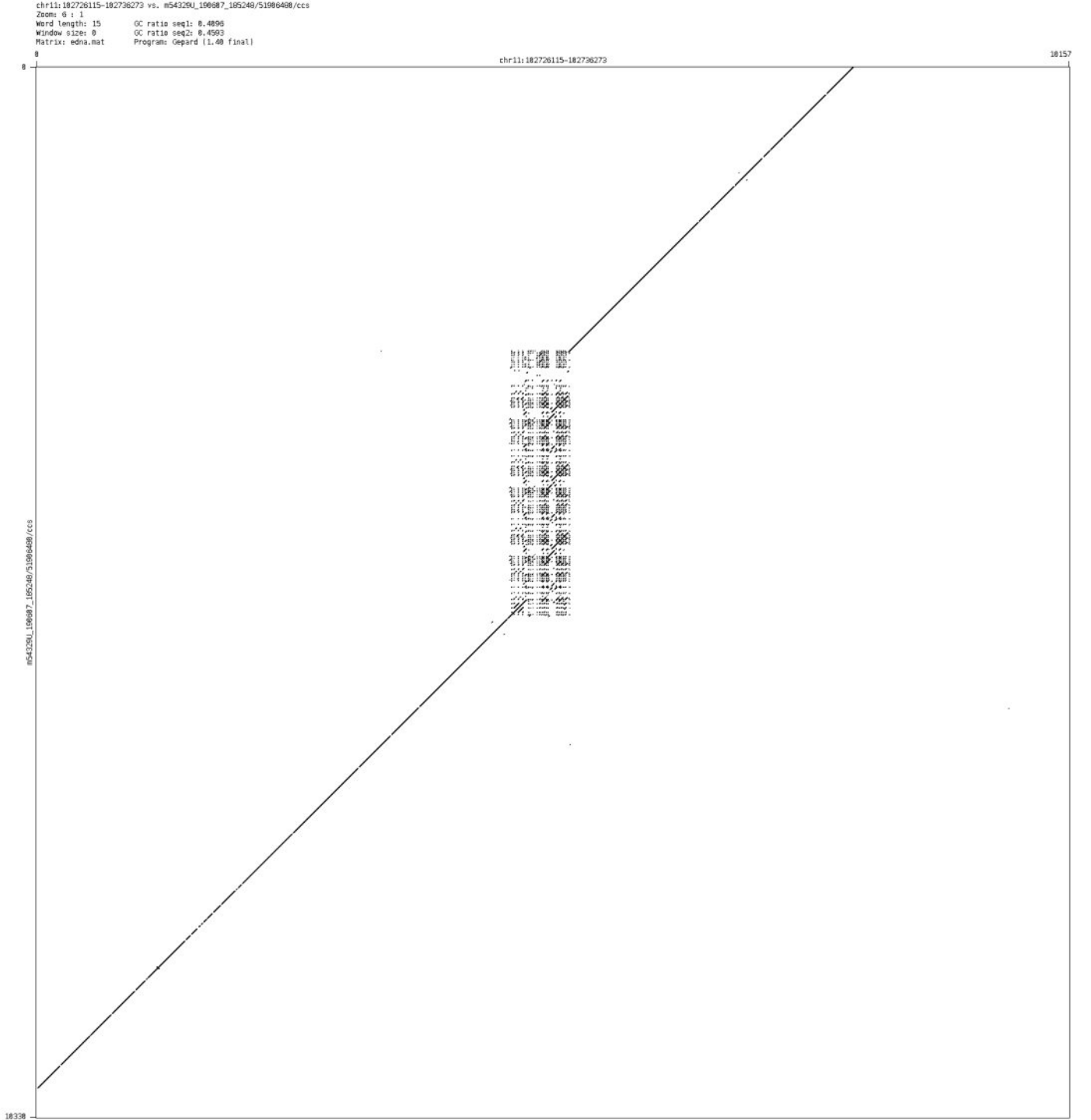


➤ chr11\_99819490\_99820566

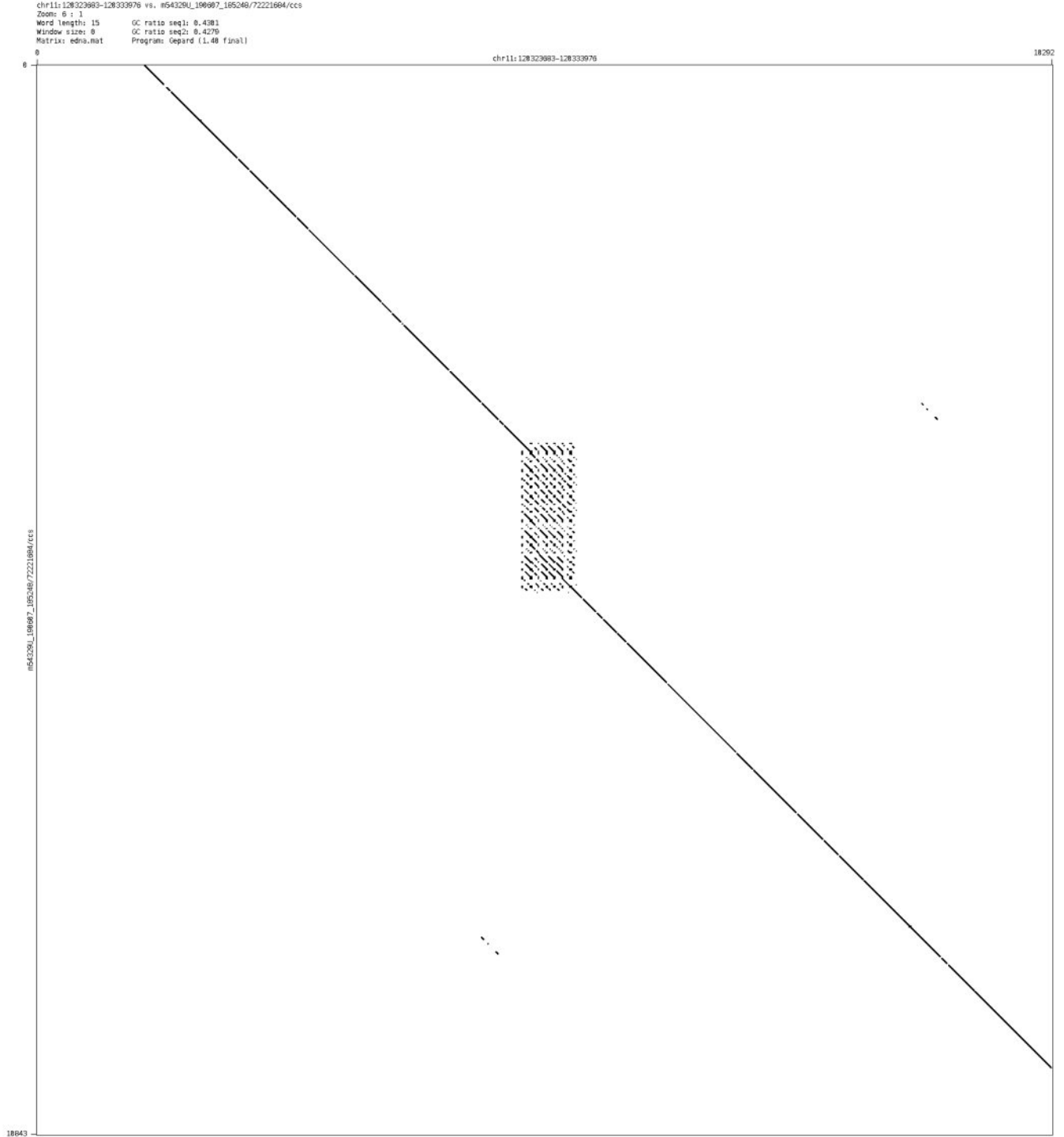
chr11:99814490-99825566 vs. m543290\_198617\_231985/158435965/ccs  
Zoom: 8 : 1 GC ratio seq1: 0.3497  
Word length: 15 GC ratio seq2: 0.3847  
Window size: 8 Program: Gepard (1.40 final)  
Matrix: edna.mat



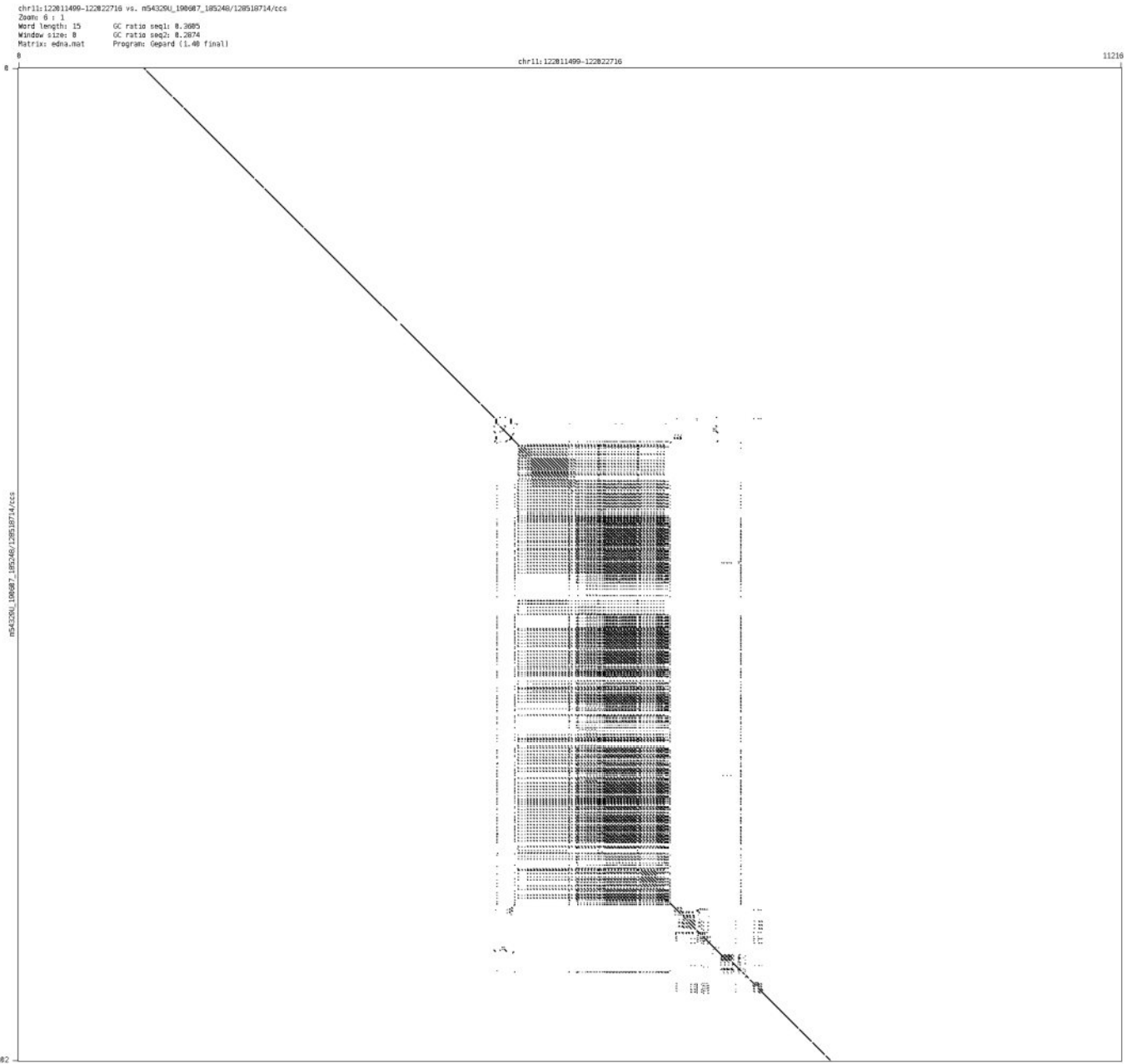
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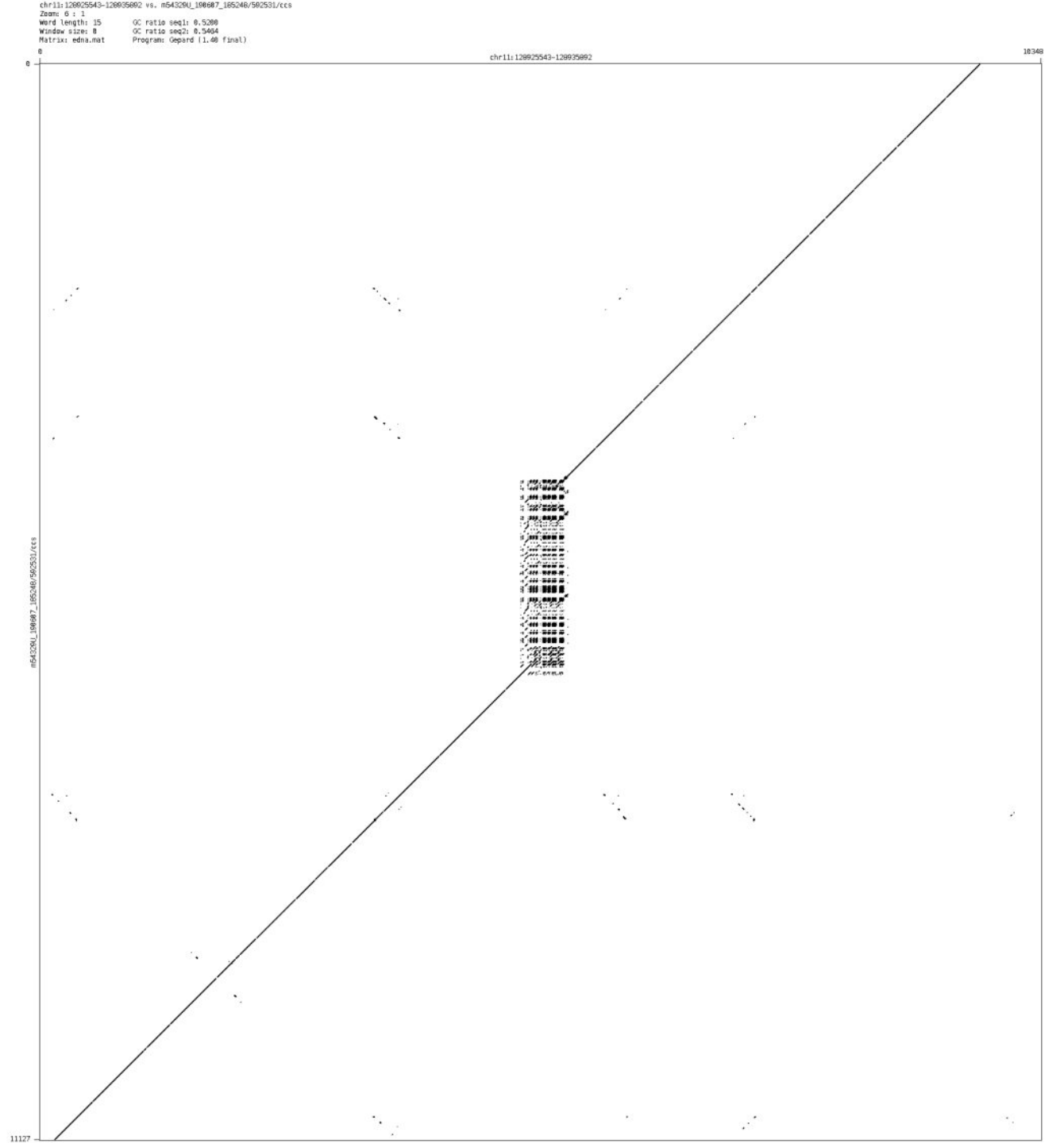
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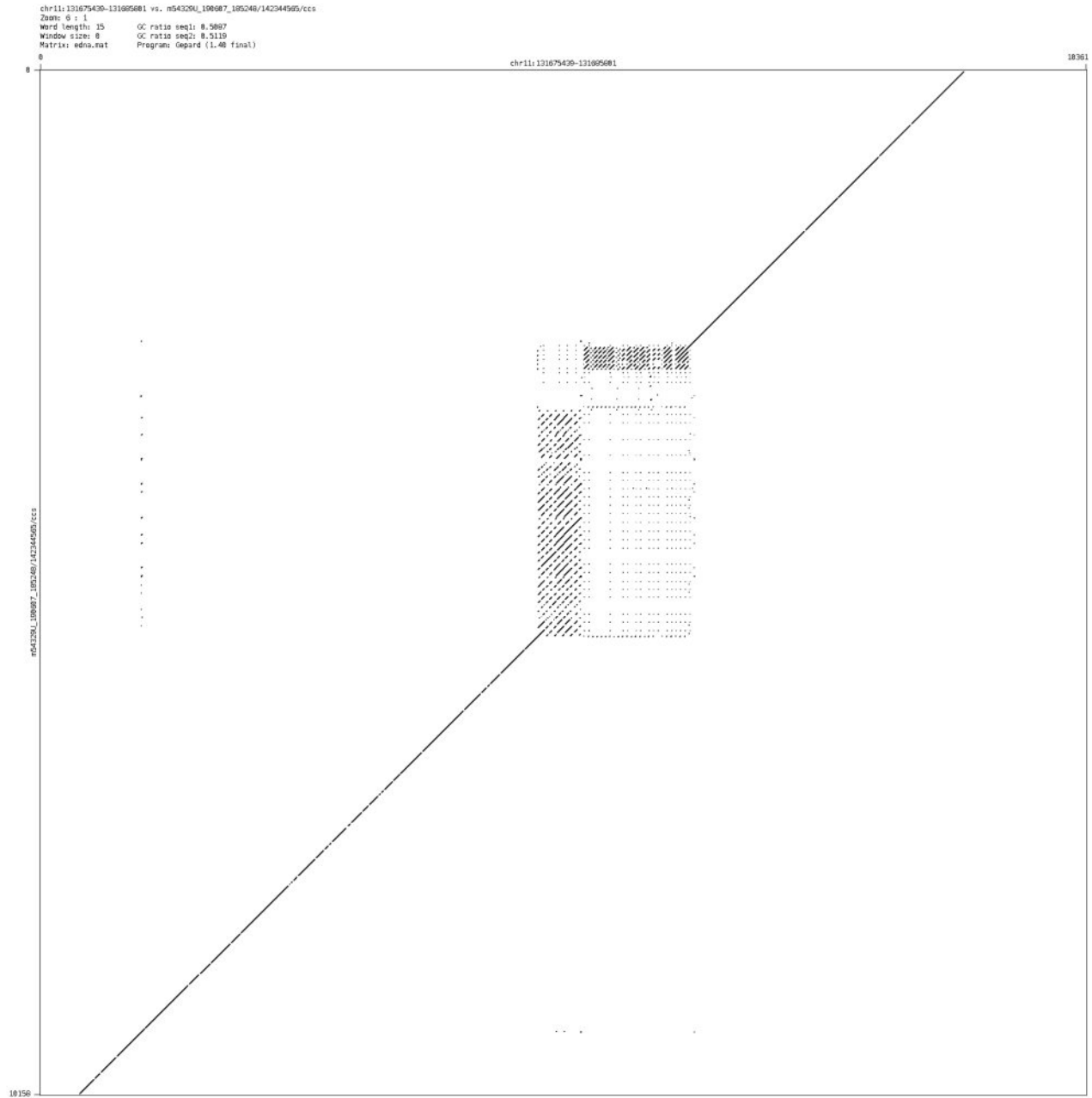
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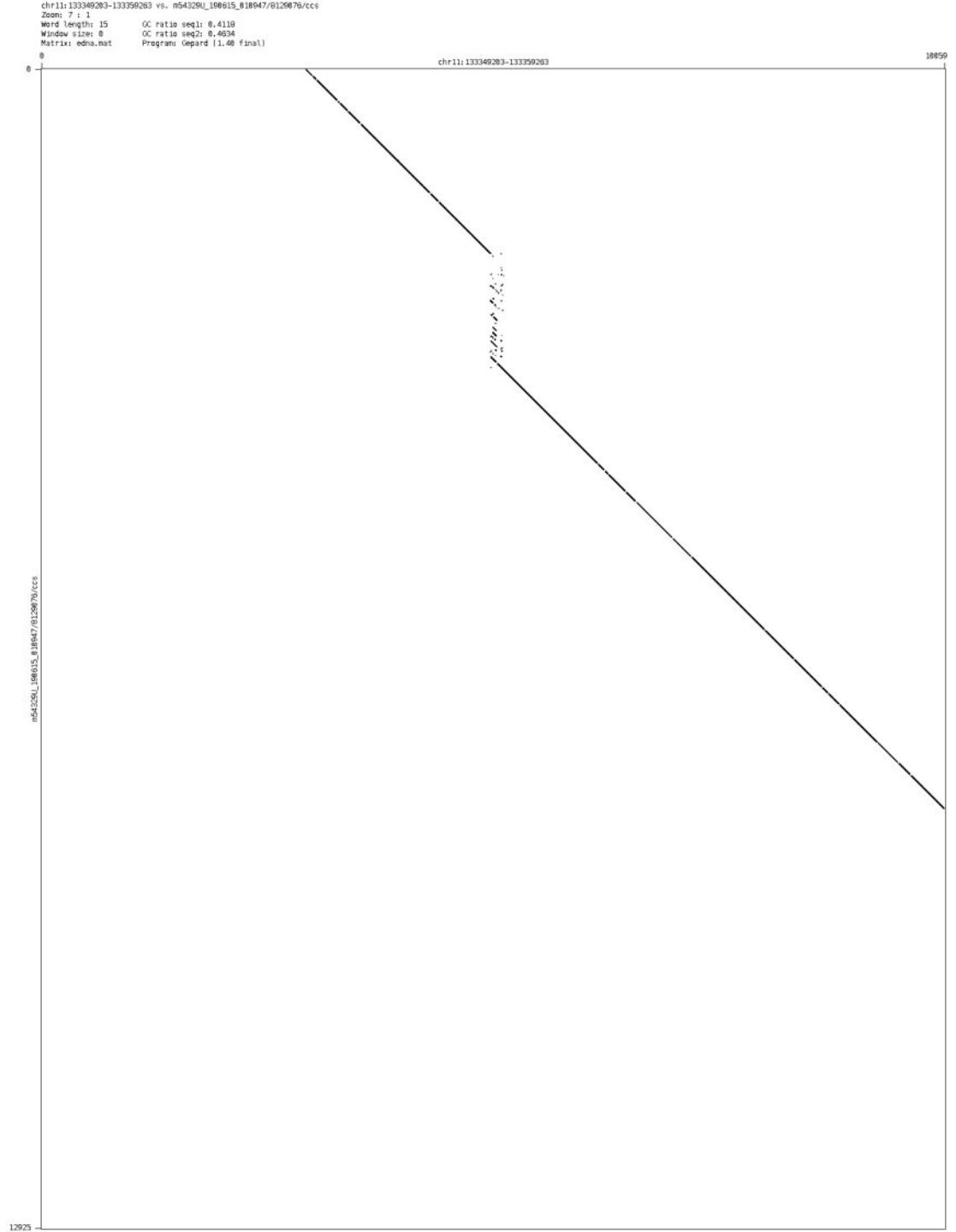
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➤ chr11\_131680439\_131680801

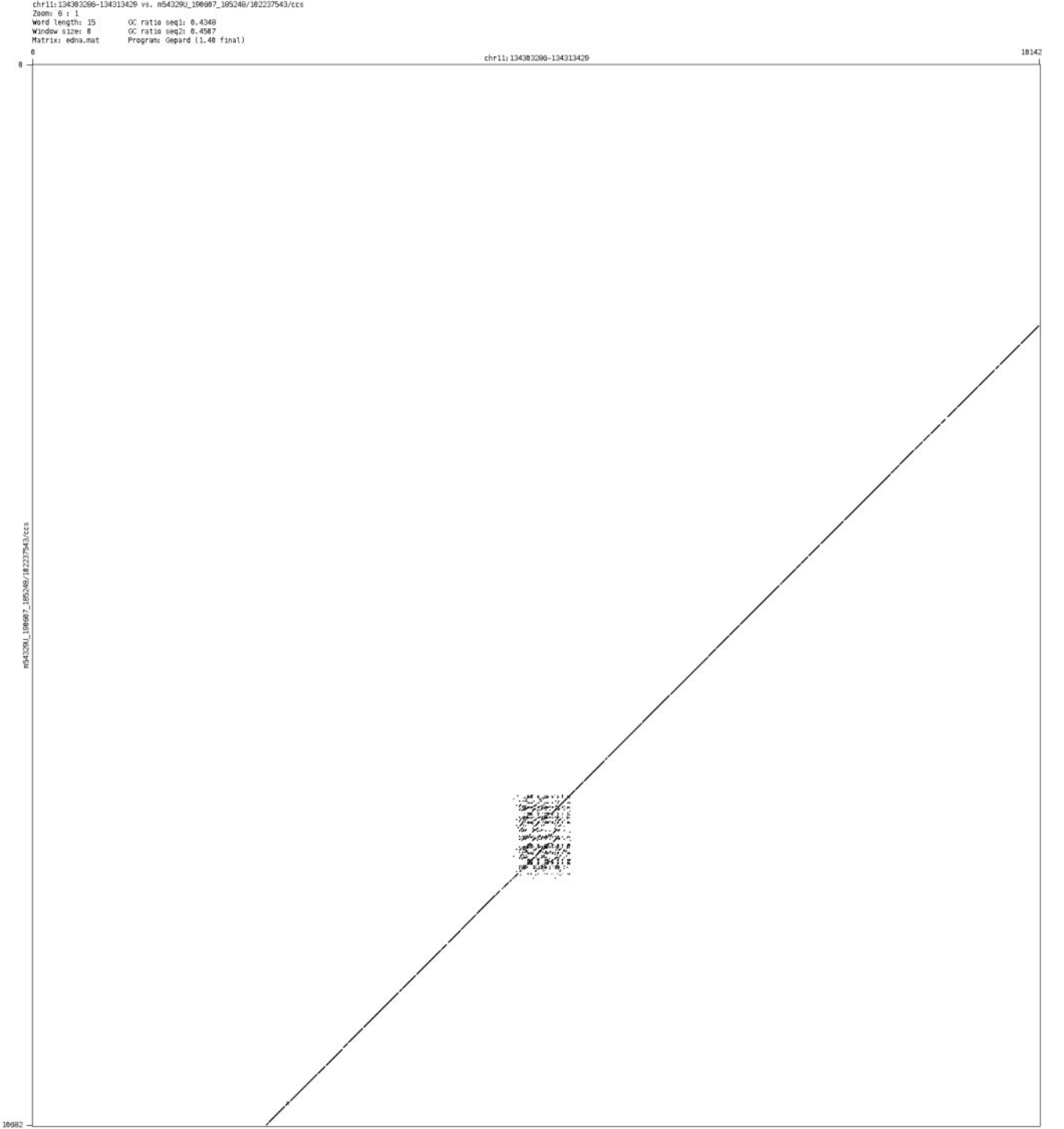


➤ chr11\_133354203\_133354263

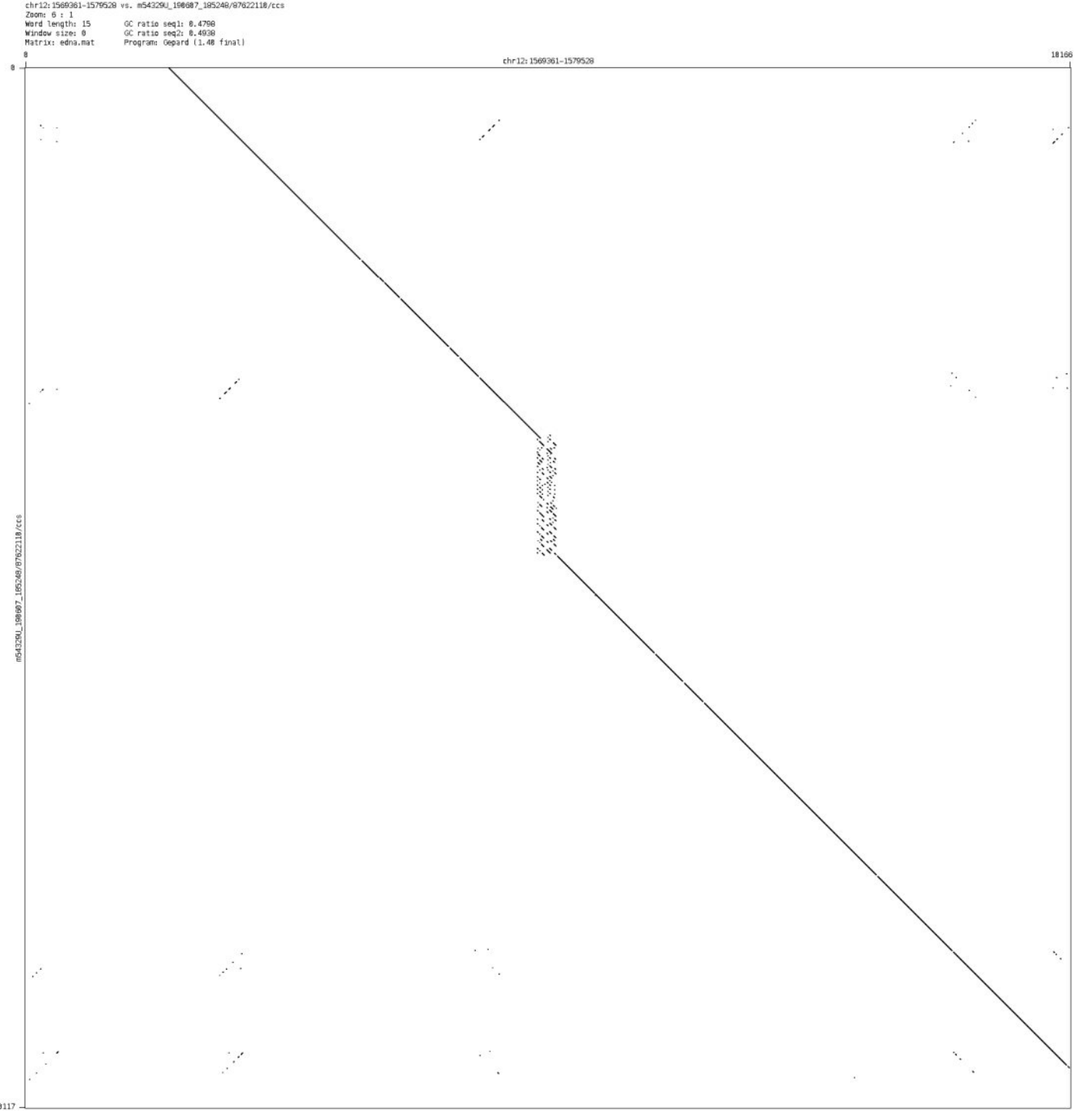




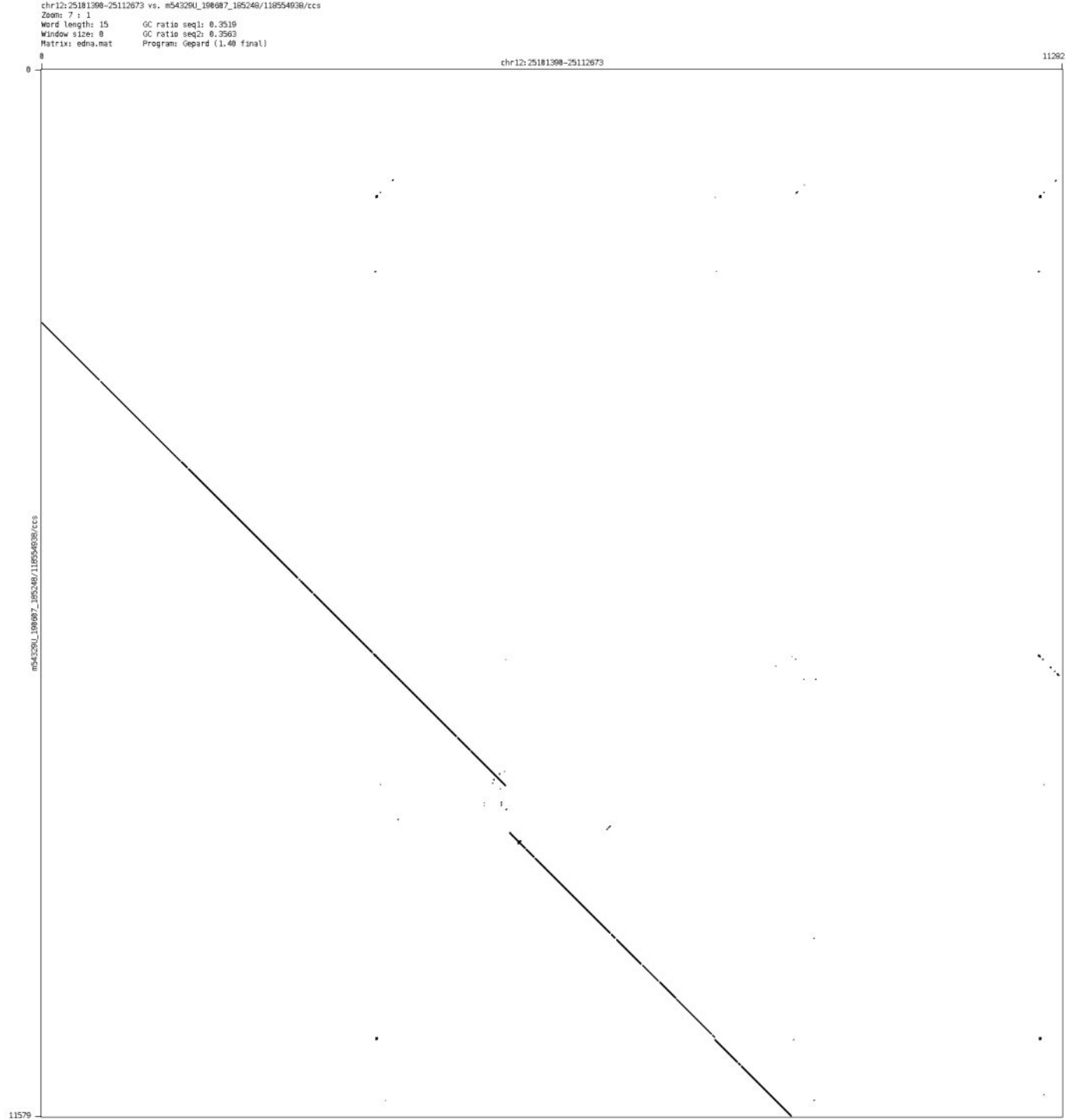
➤ chr11\_134308286\_134308429



➤ chr12\_1574361\_1574528

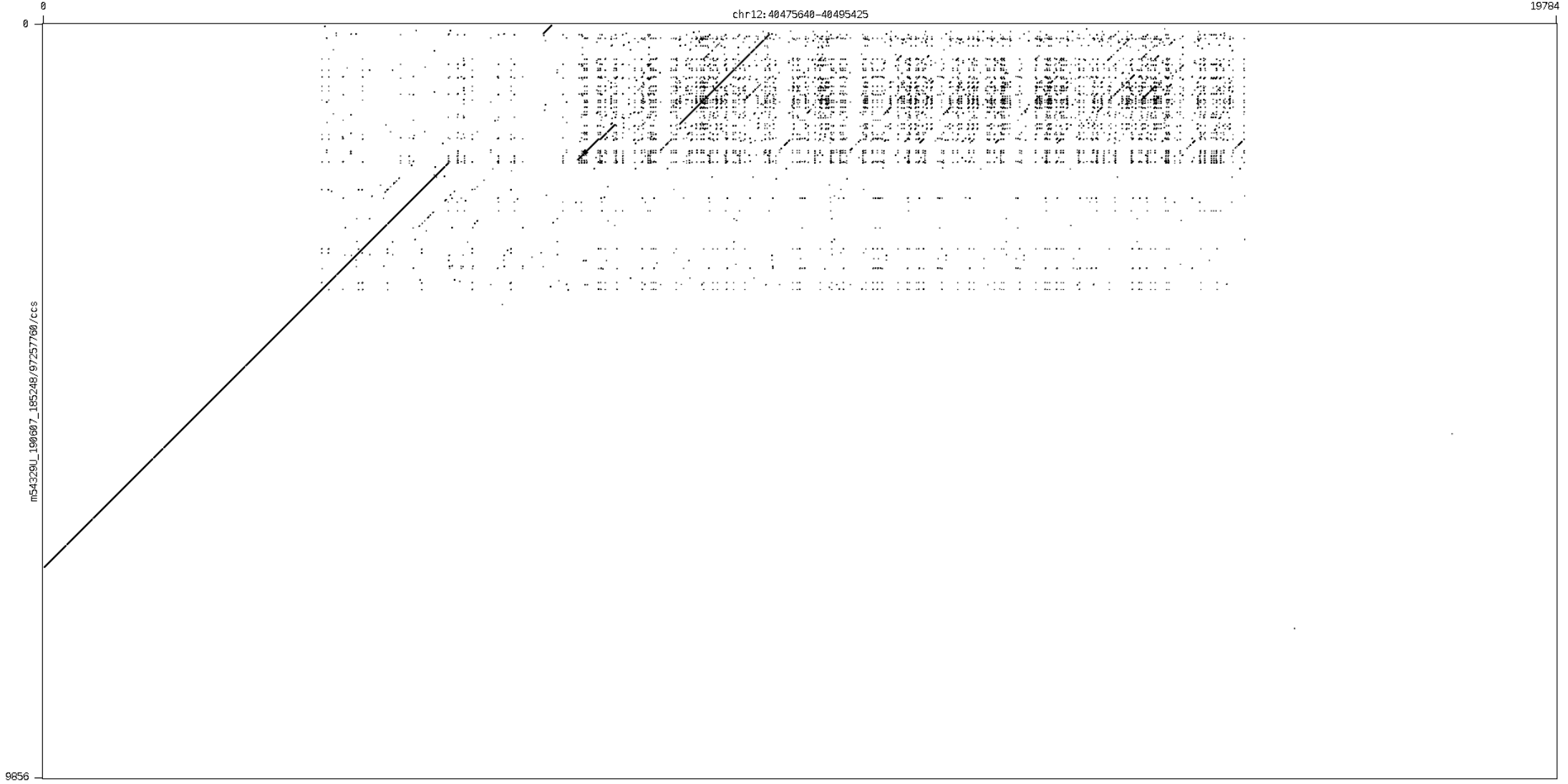


➤ chr12\_25106390\_25107673

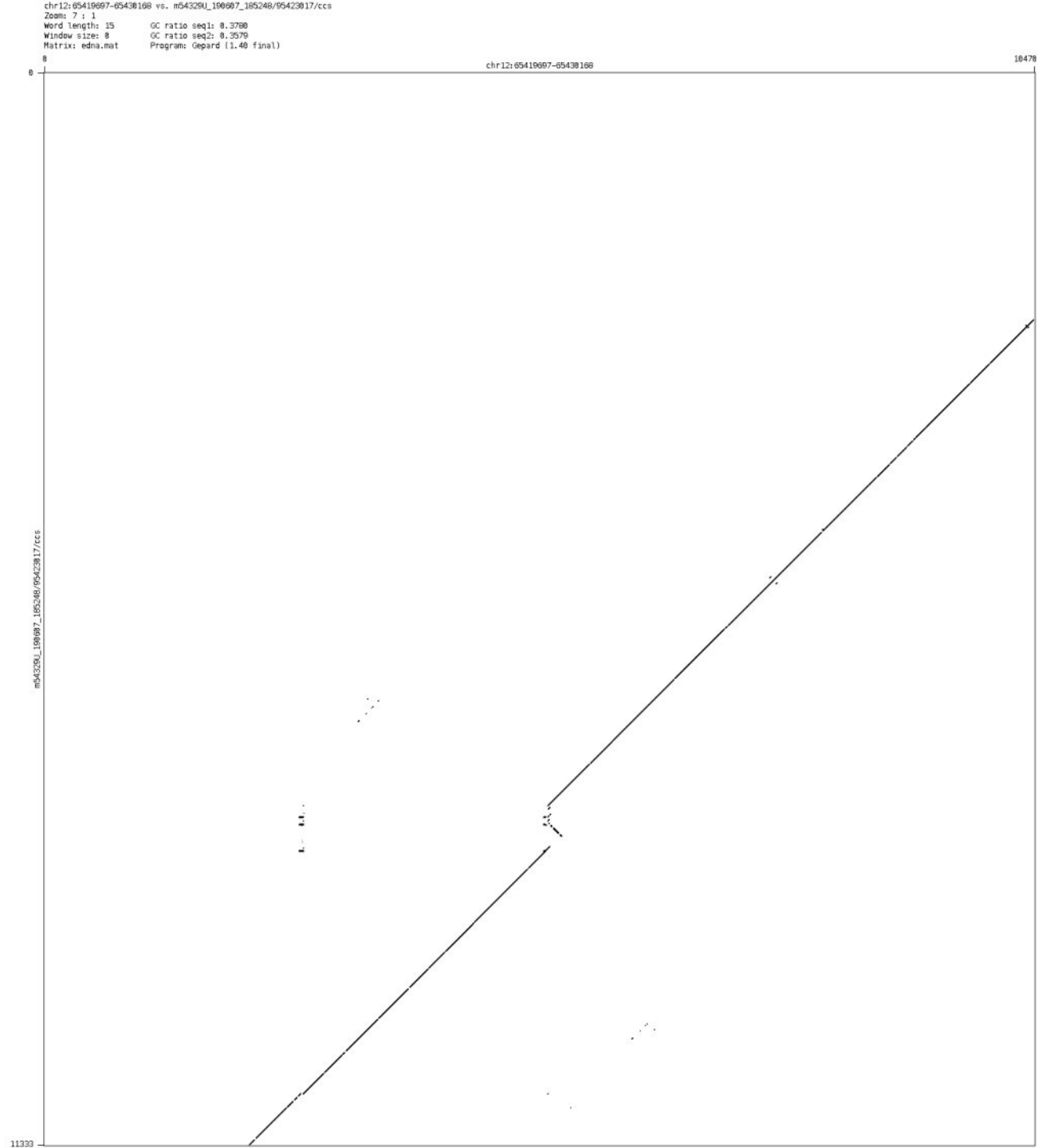


# ➤ chr12\_40480640\_40490425

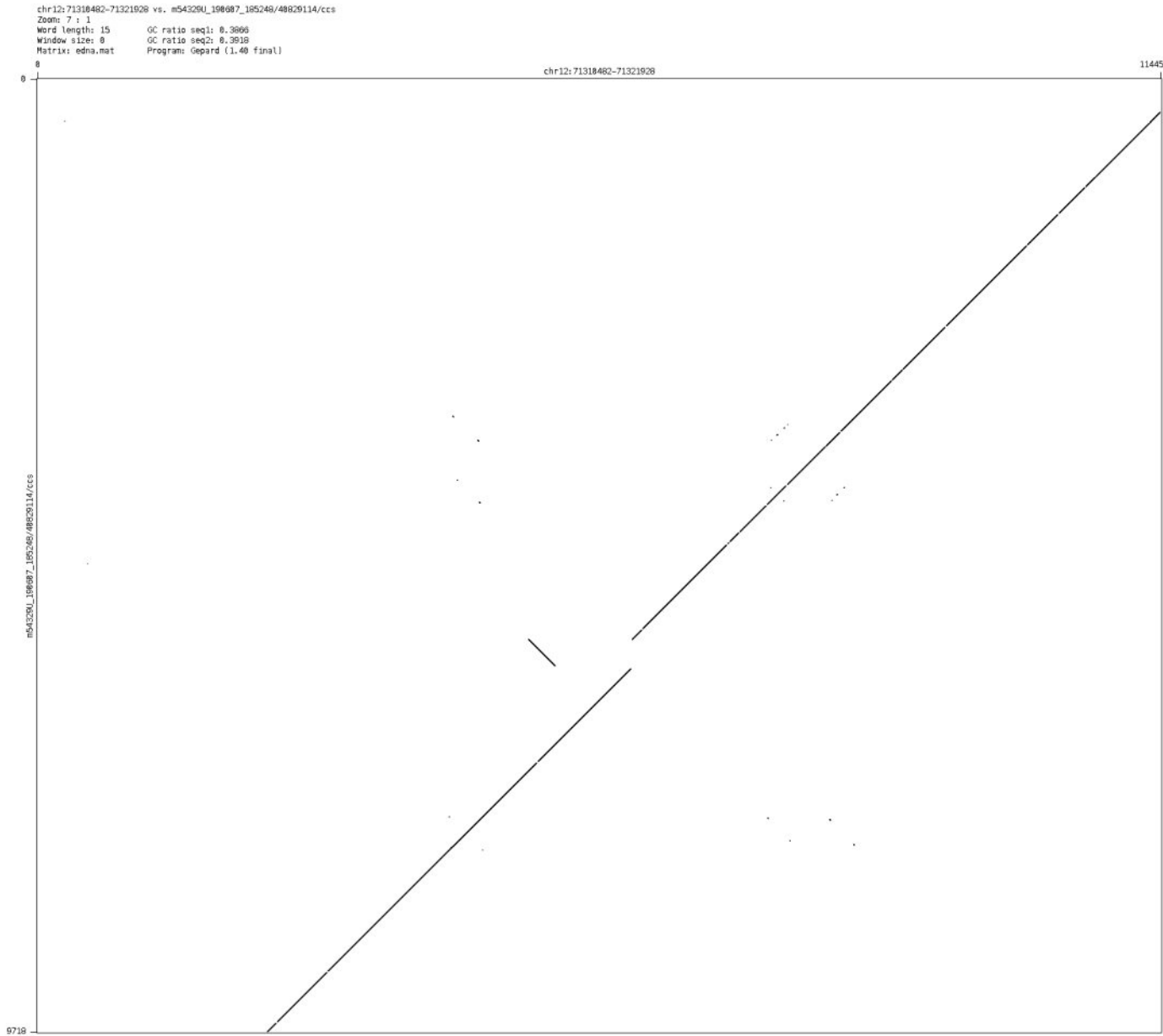
chr12:40475640-40495425 vs. m54329U\_190607\_185248/97257760/ccs  
Zoom: 11 : 1  
Word length: 15 GC ratio seq1: 0.4448  
Window size: 0 GC ratio seq2: 0.4060  
Matrix: edna.mat Program: Gepard (1.40 final)



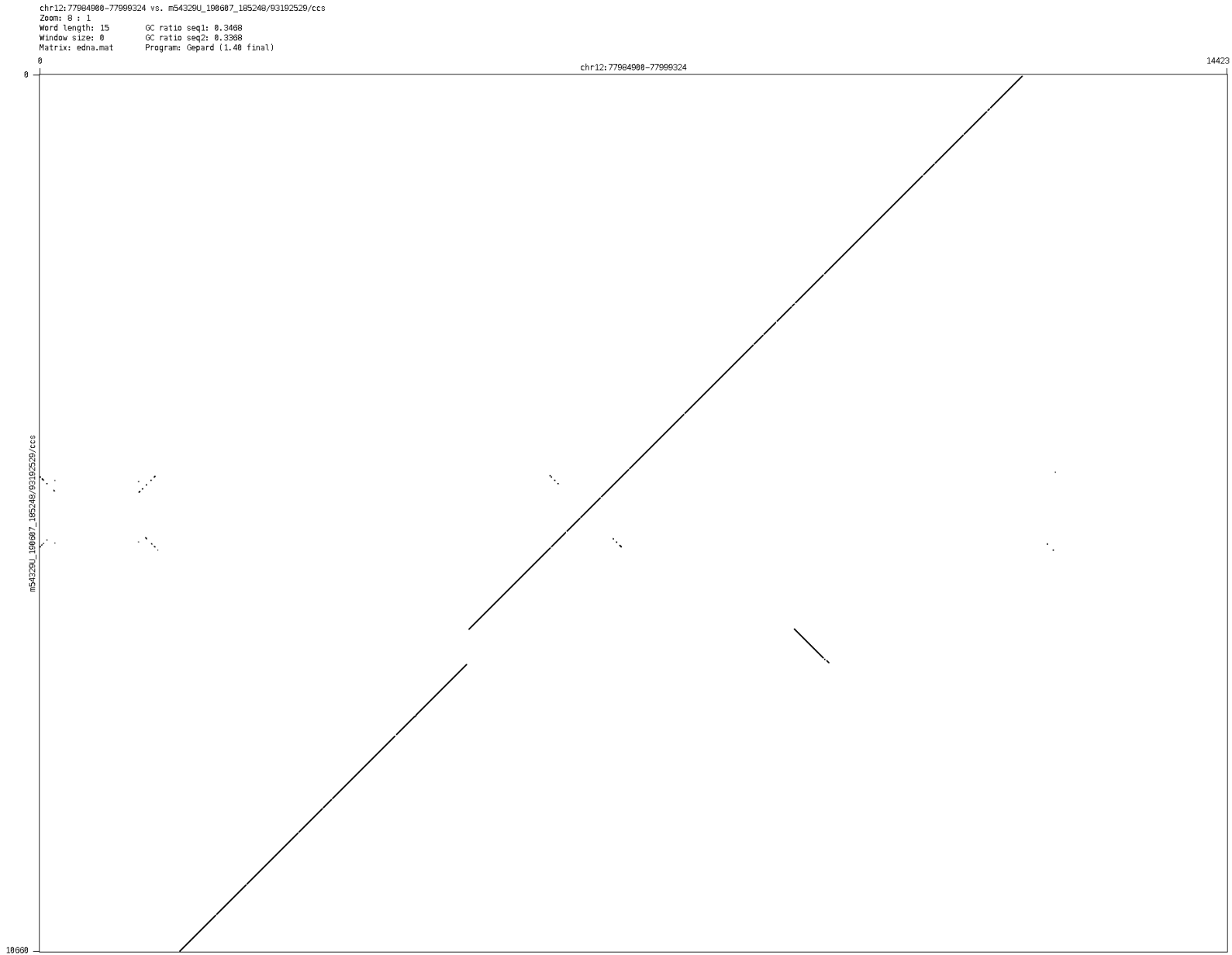
➤ chr12\_65424697\_65425168



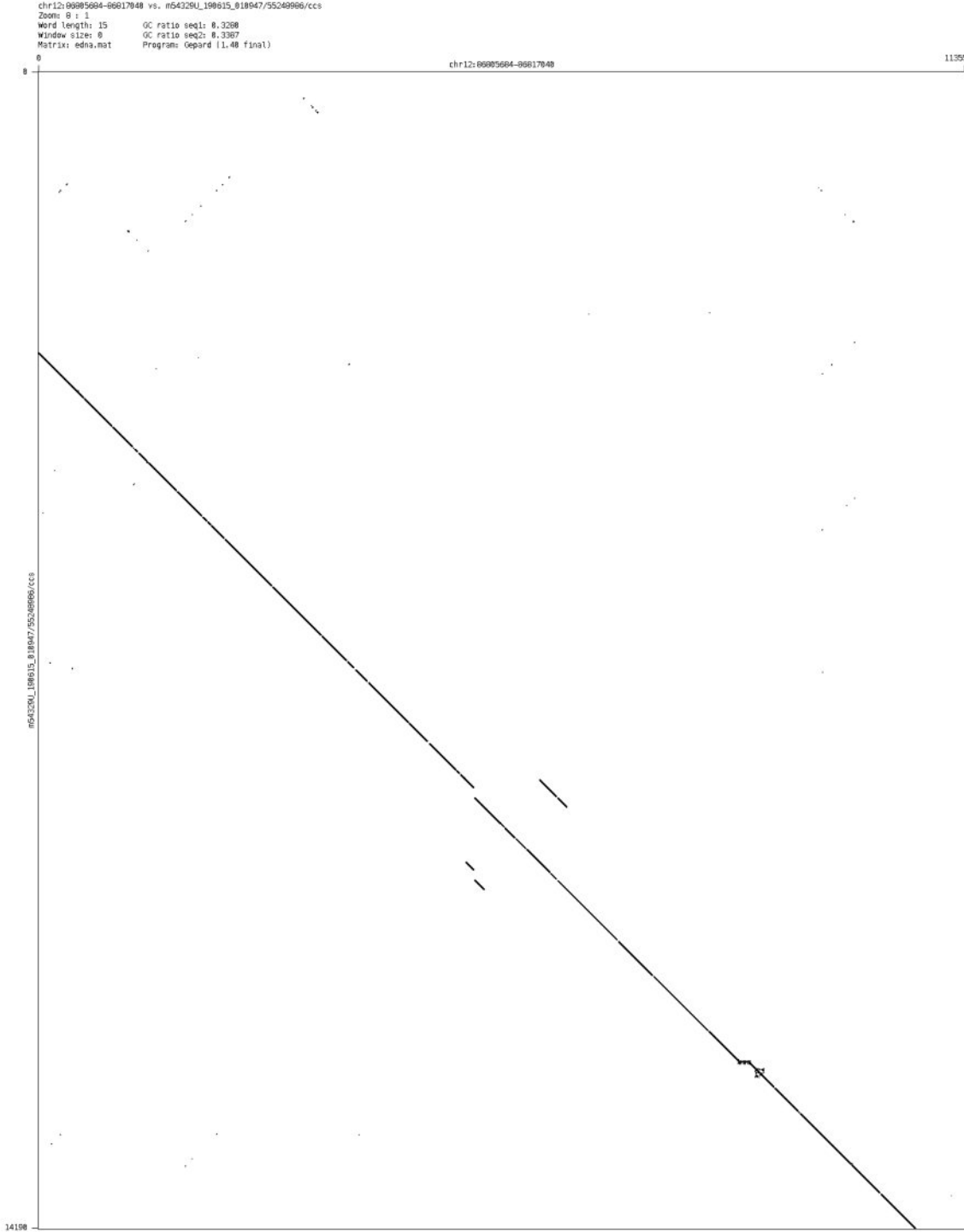
➤ chr12\_71315482\_71316928



➤ chr12\_77989900\_77994324

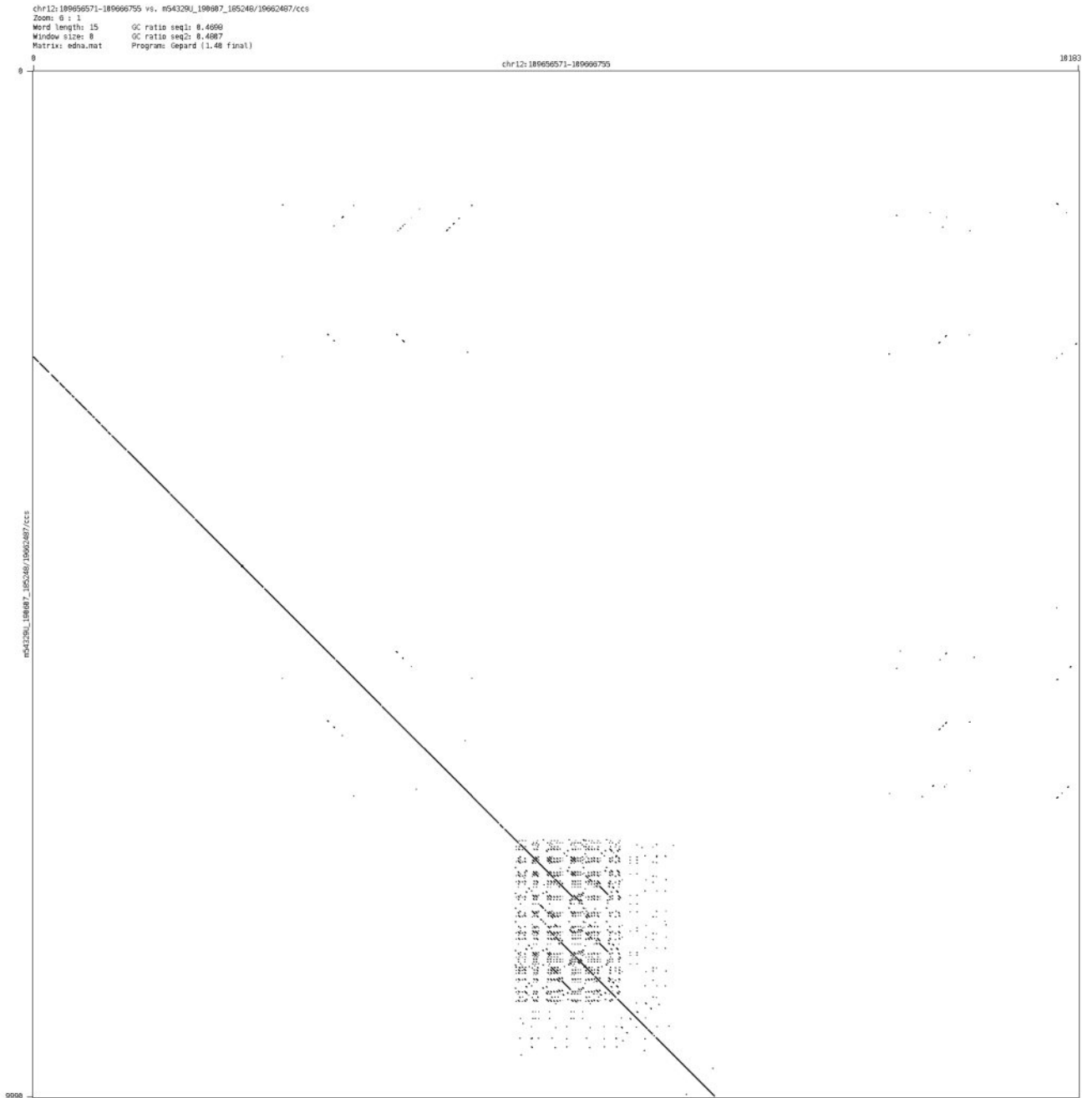


➤ chr12\_86810684\_86812040

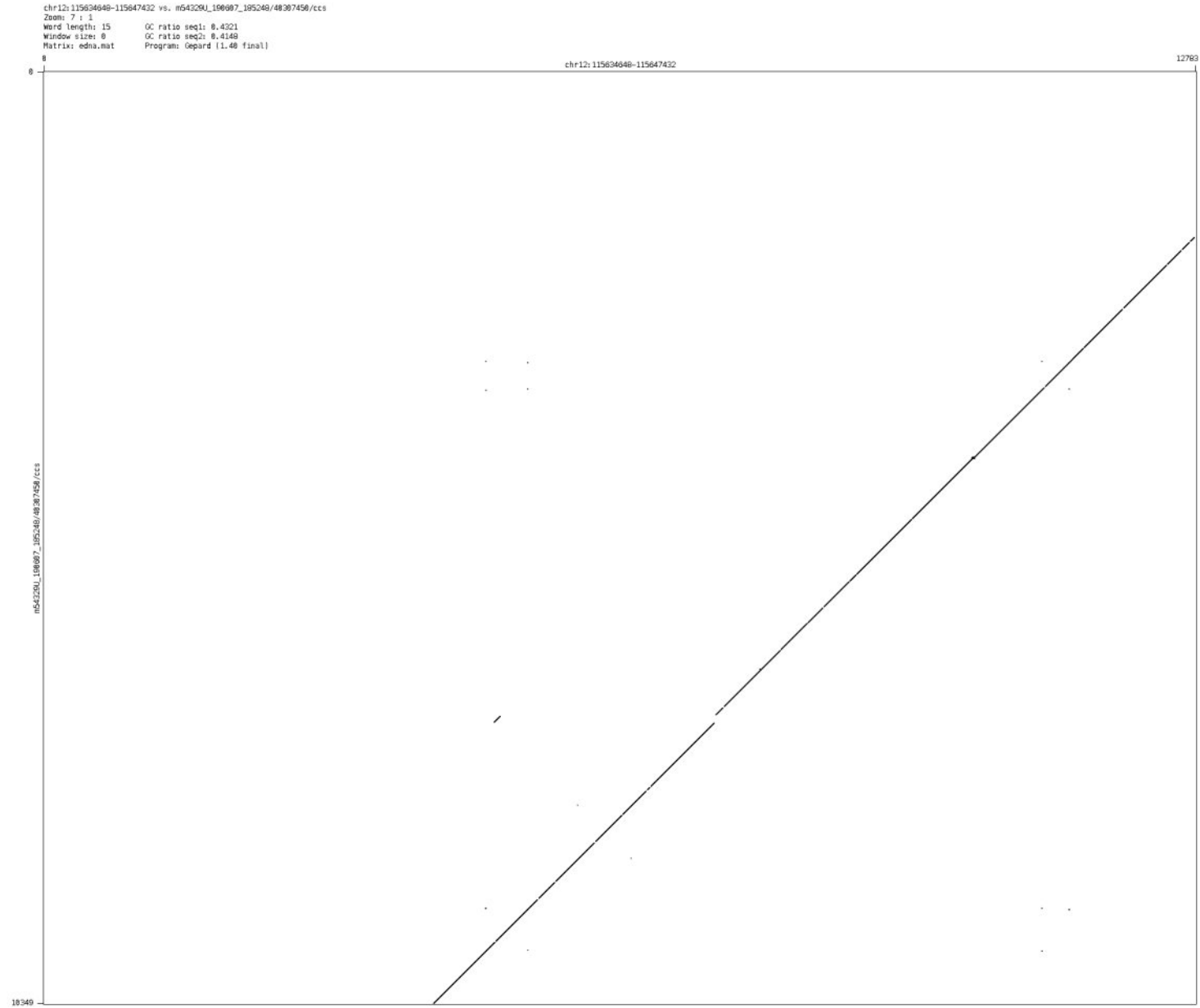




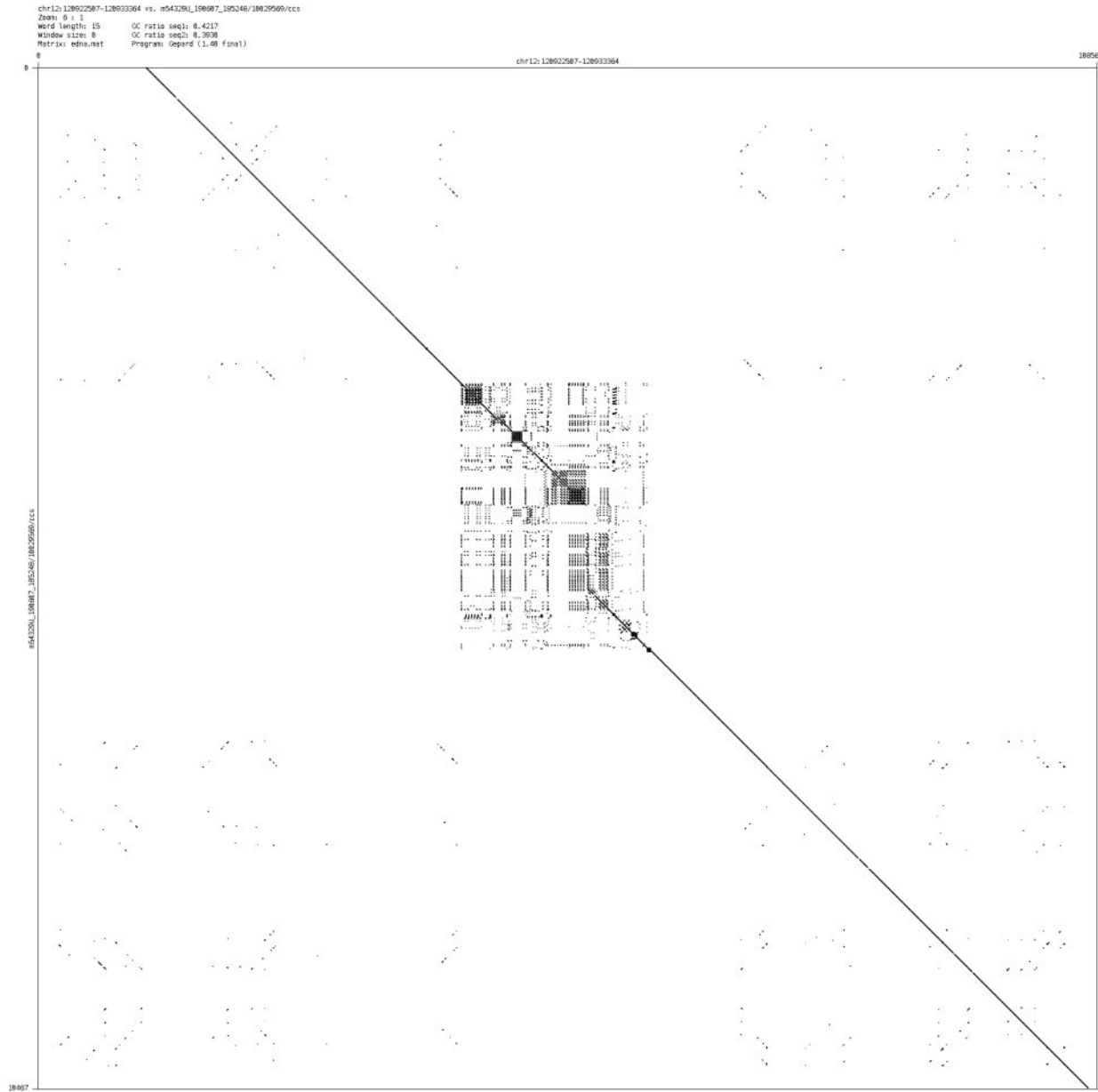
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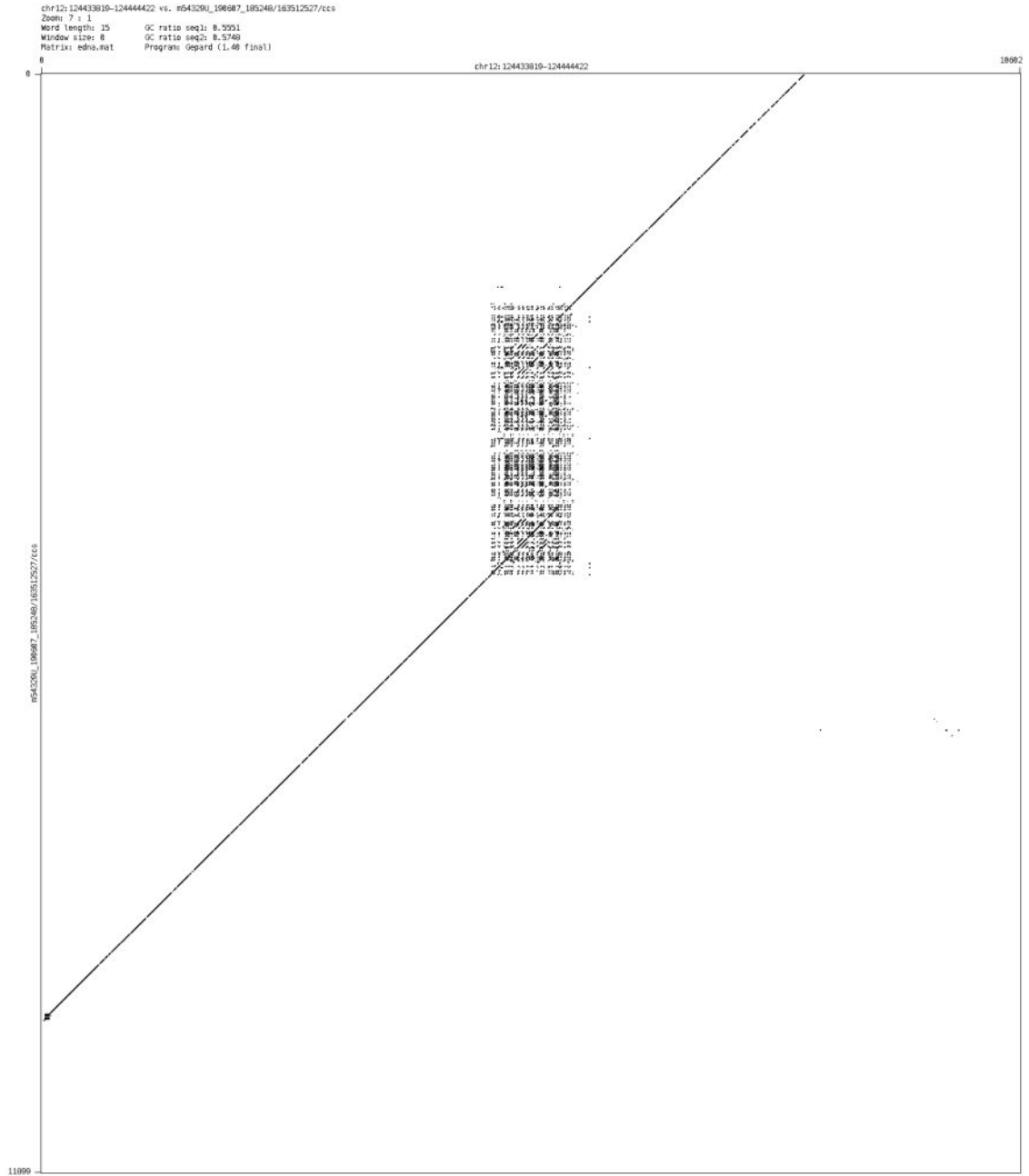
➤ chr12\_115639648\_115642432



➤ chr12\_120927507\_120928364

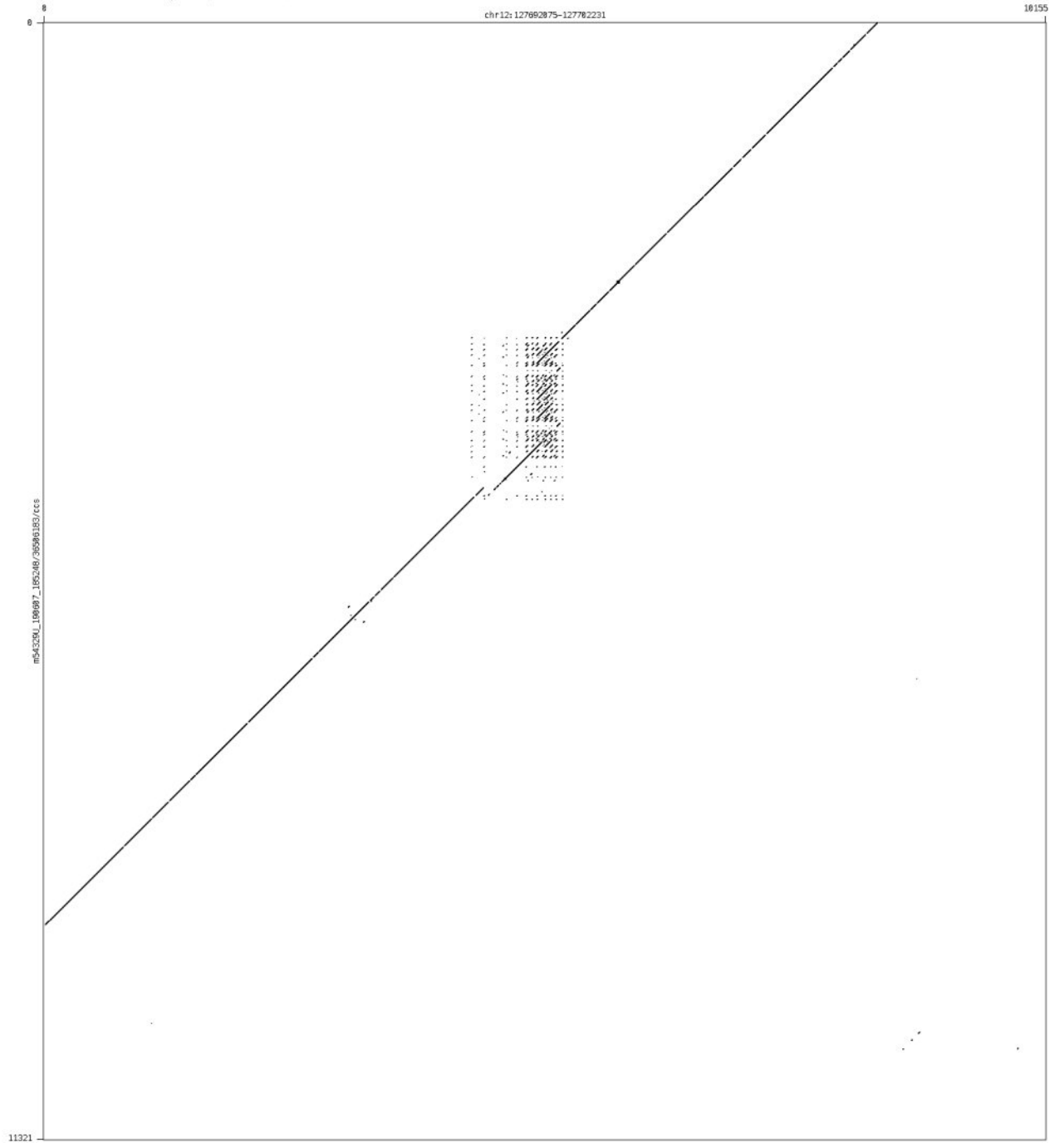


➤ chr12\_124438819\_124439422

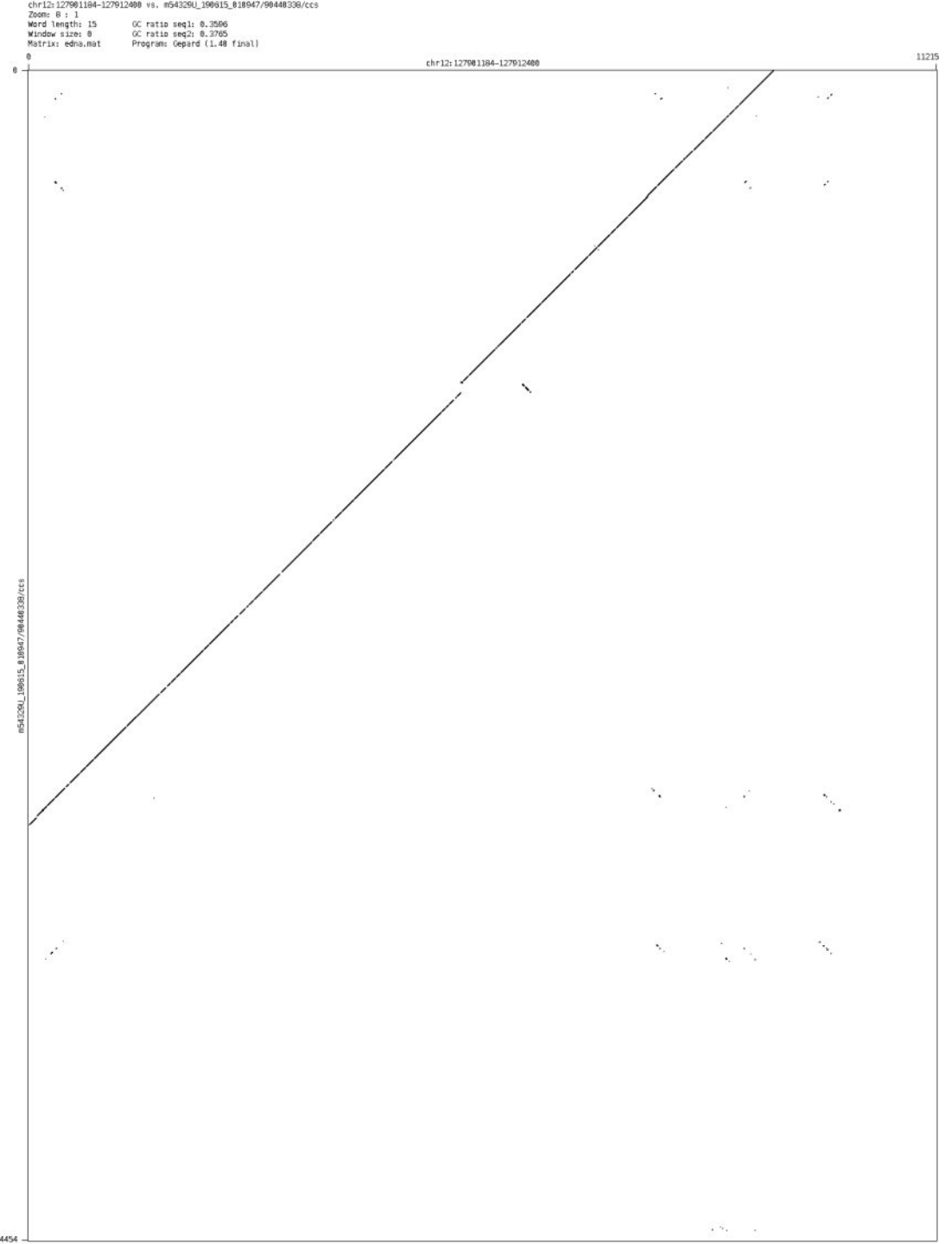


➤ chr12\_127697075\_127697231

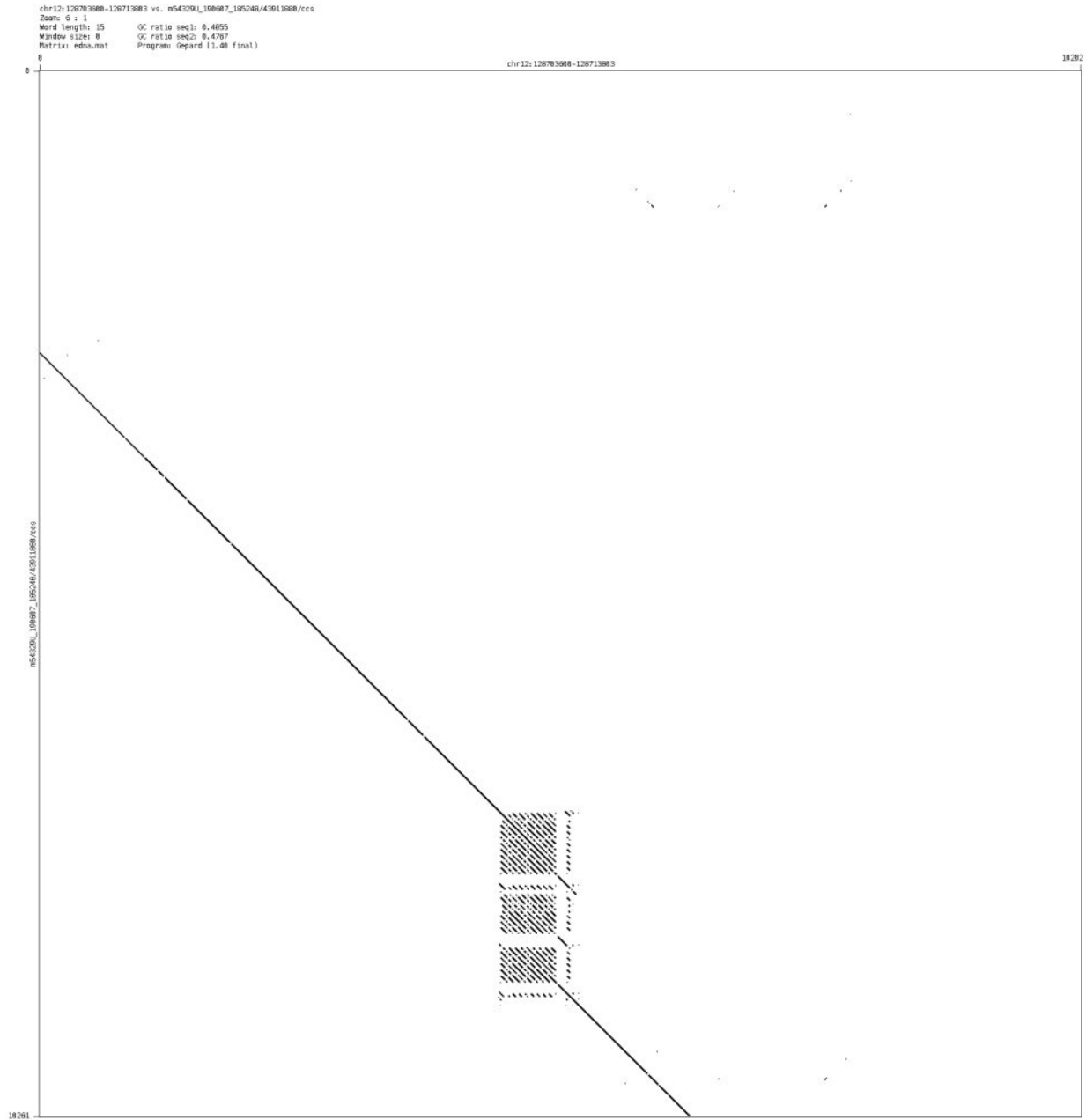
chr12:127692075-127702231 vs. m54320\_190697\_185248/36586183/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 0.3663  
Window size: 0 GC ratio seq2: 0.3628  
Matrix: edna.mat Program: Oepard (1.48 final)



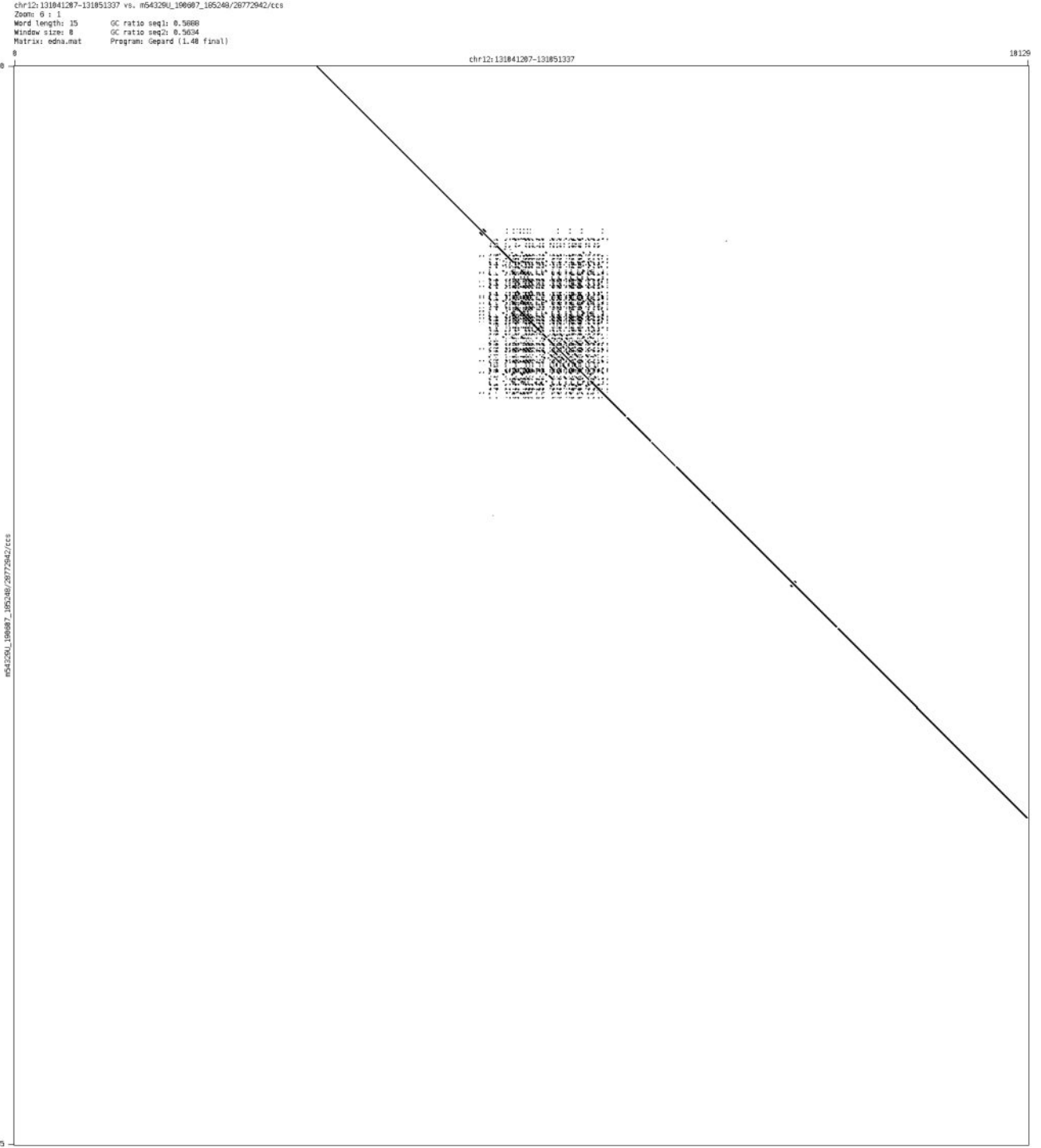
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➤ chr12\_128708600\_128708803

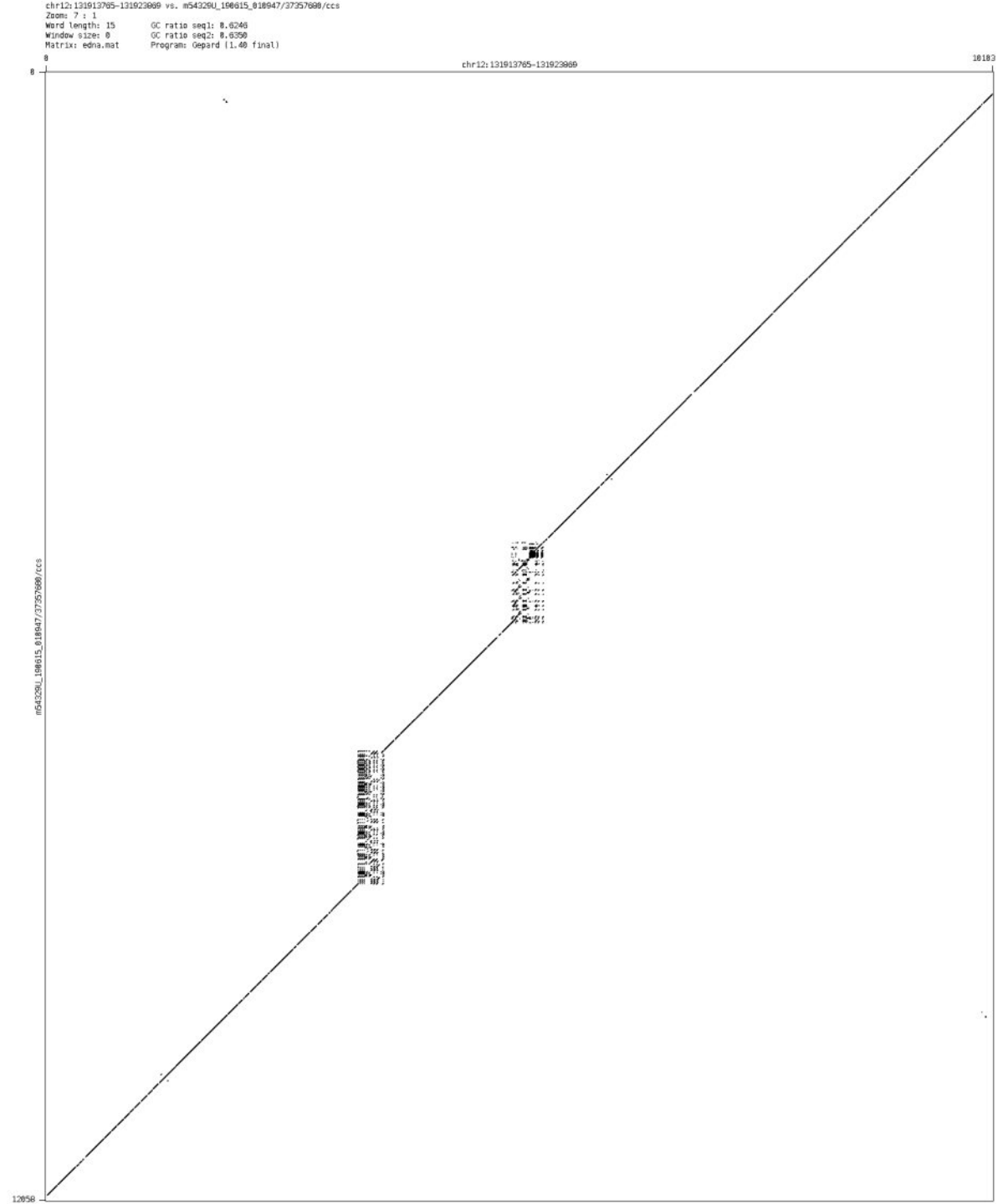


➤ chr12\_131046207\_131046337

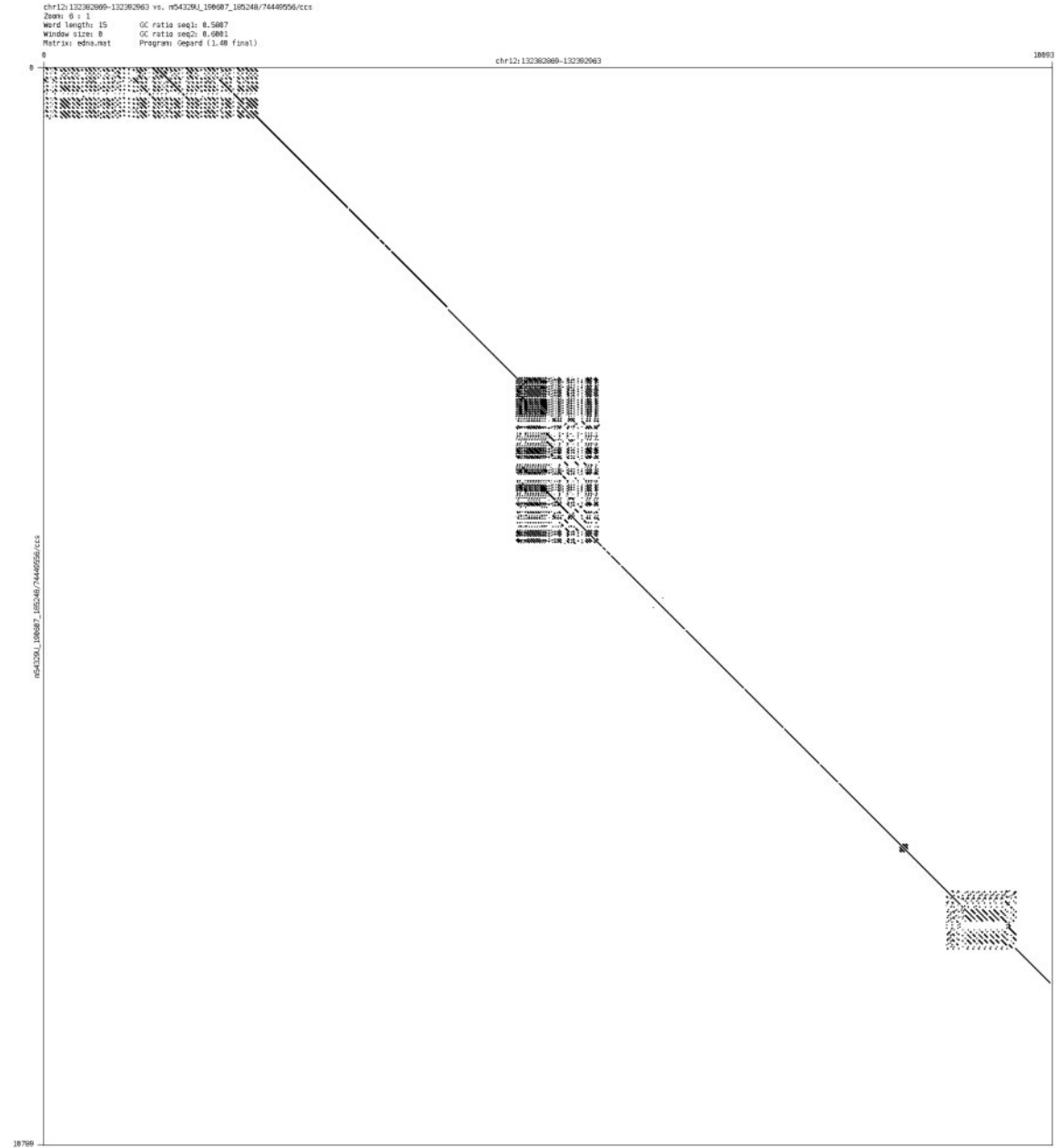




➤ chr12\_131918765\_131918869

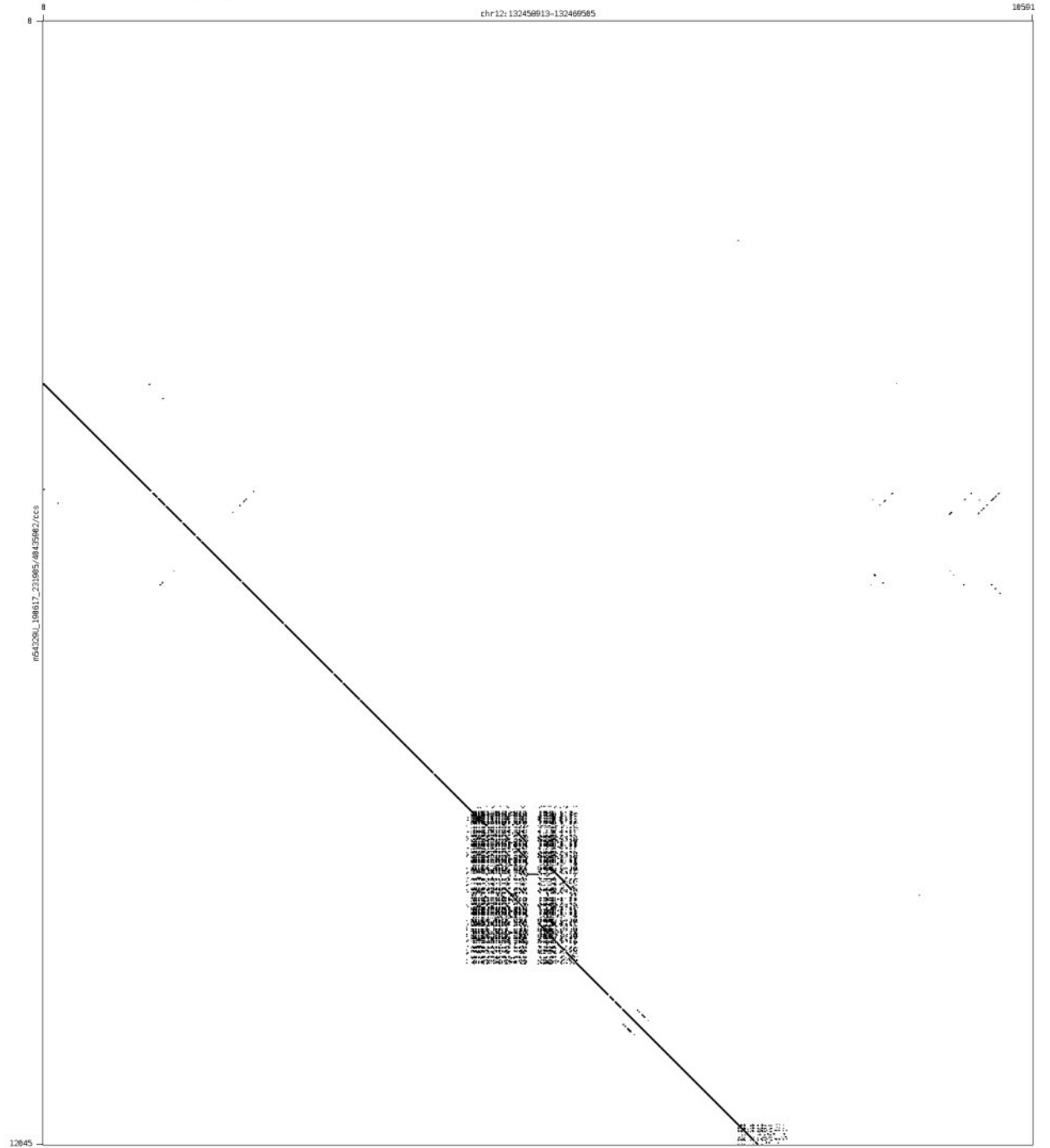


➤ chr12\_132387869\_132387963

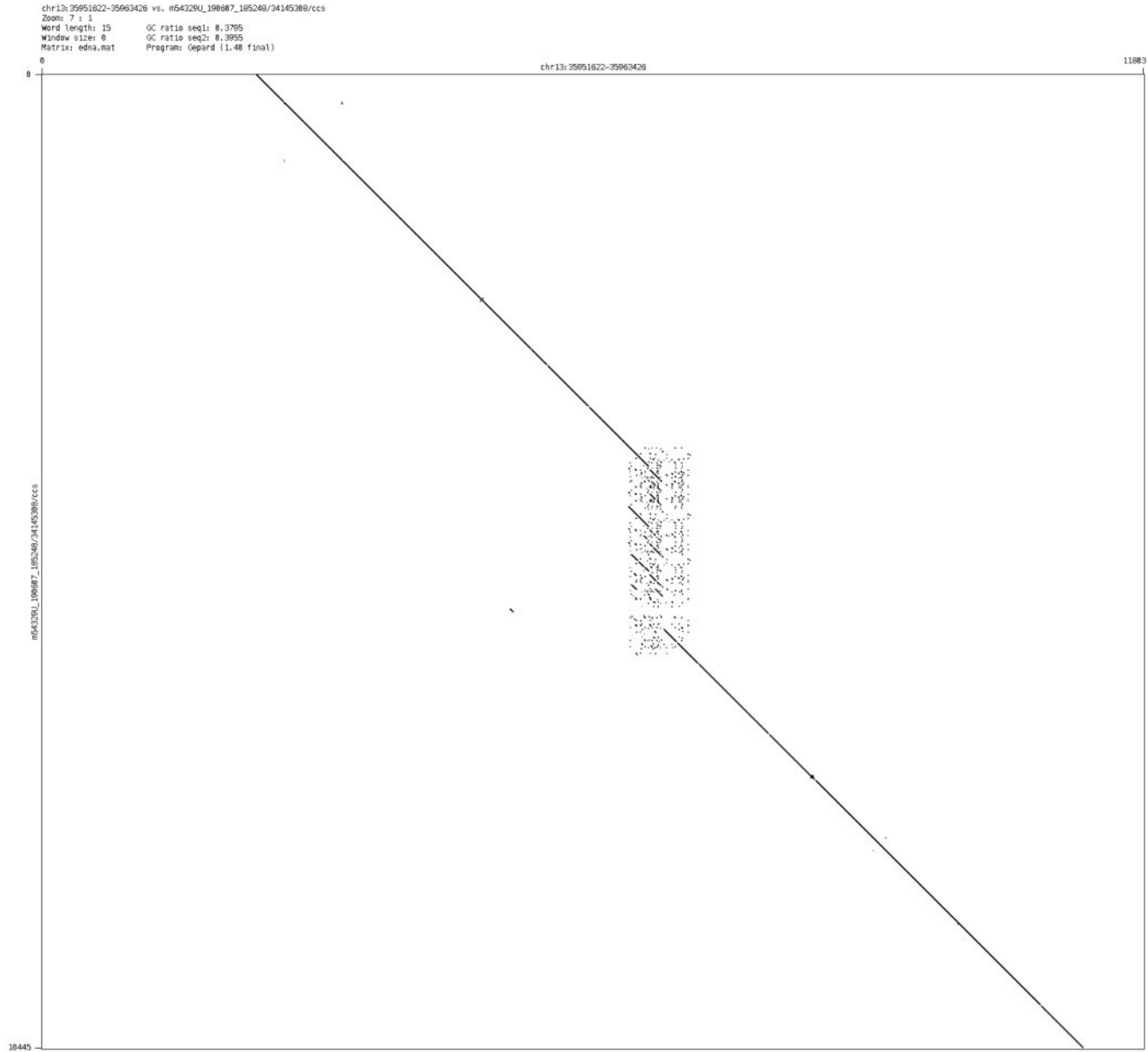


➤ chr12\_132463913\_132464505

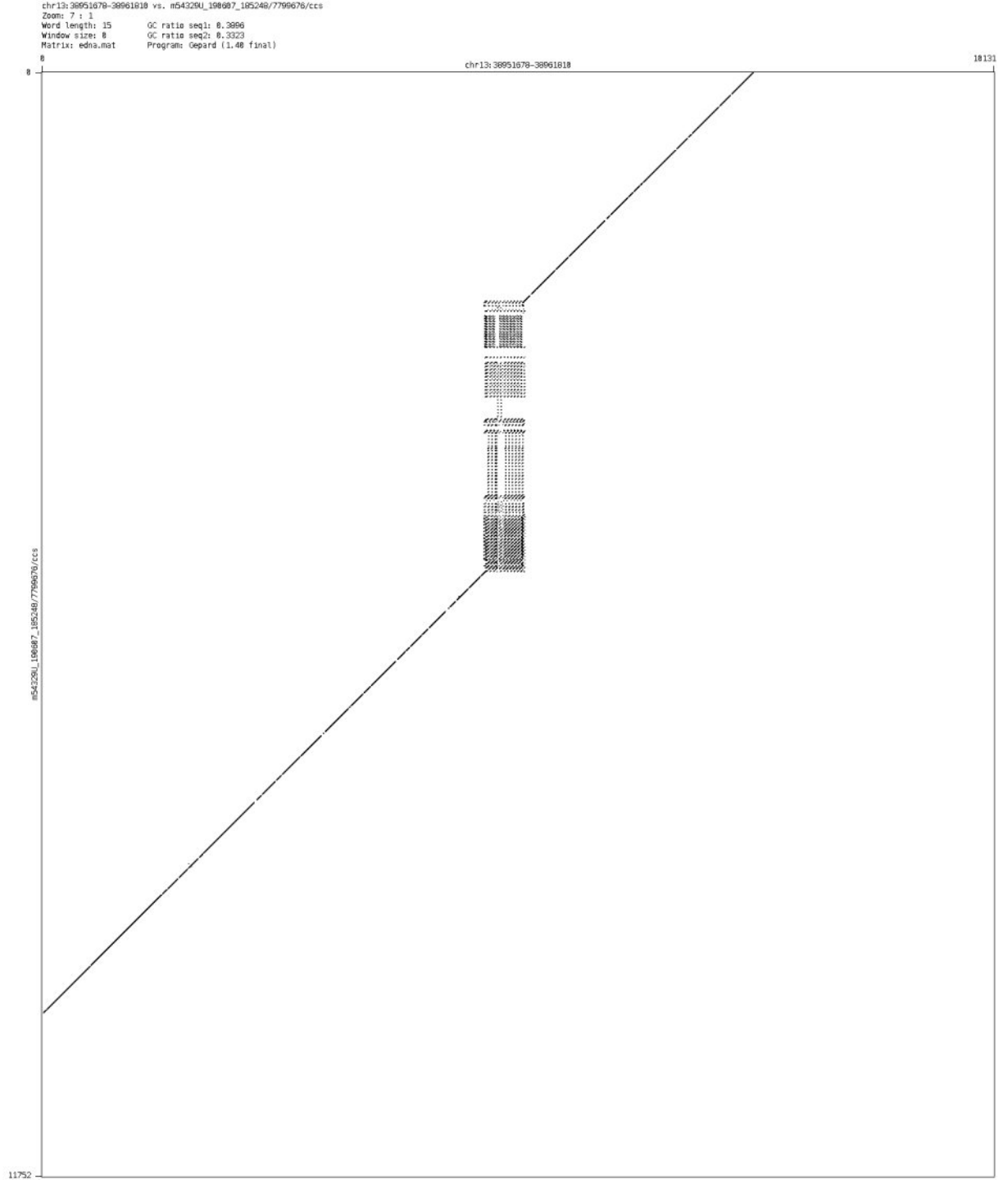
chr12:132458913-132469505 vs. m54329U\_190617\_291995/48435982/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 0.5301  
Window size: 0 GC ratio seq2: 0.5555  
Matrix: edna.mat Program: Gepard (1.48 final)



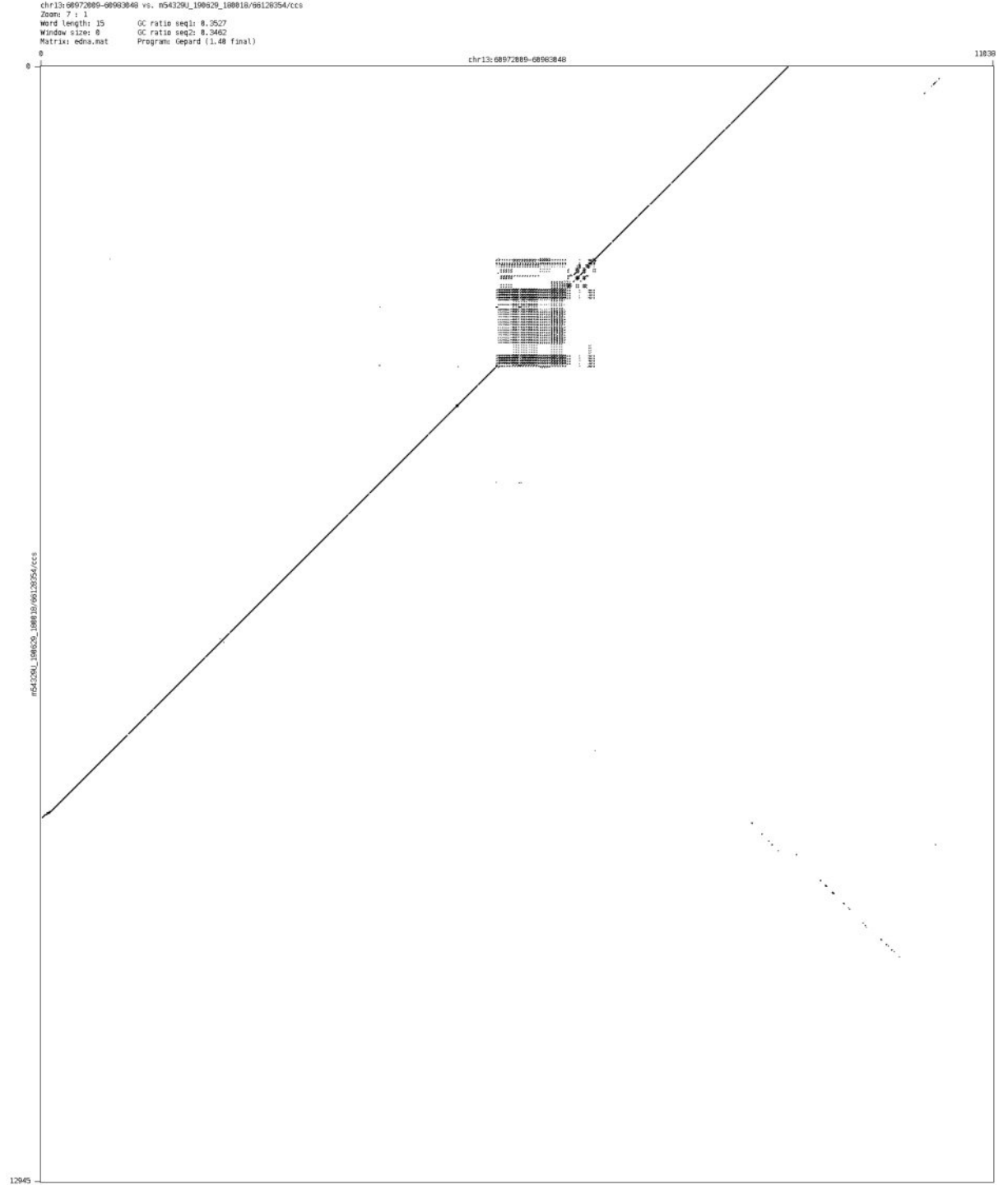
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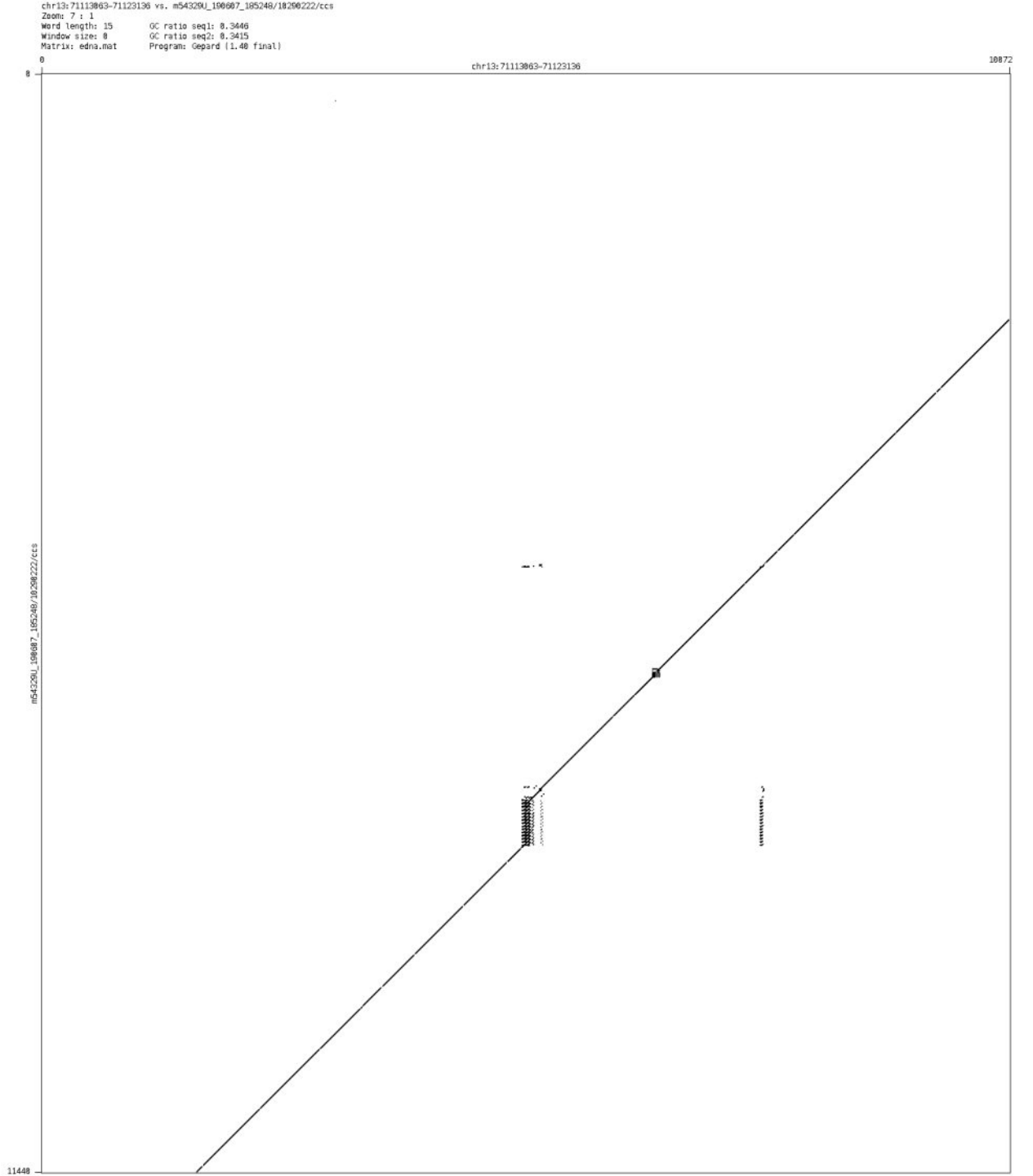
➤ chr13\_38956678\_38956810



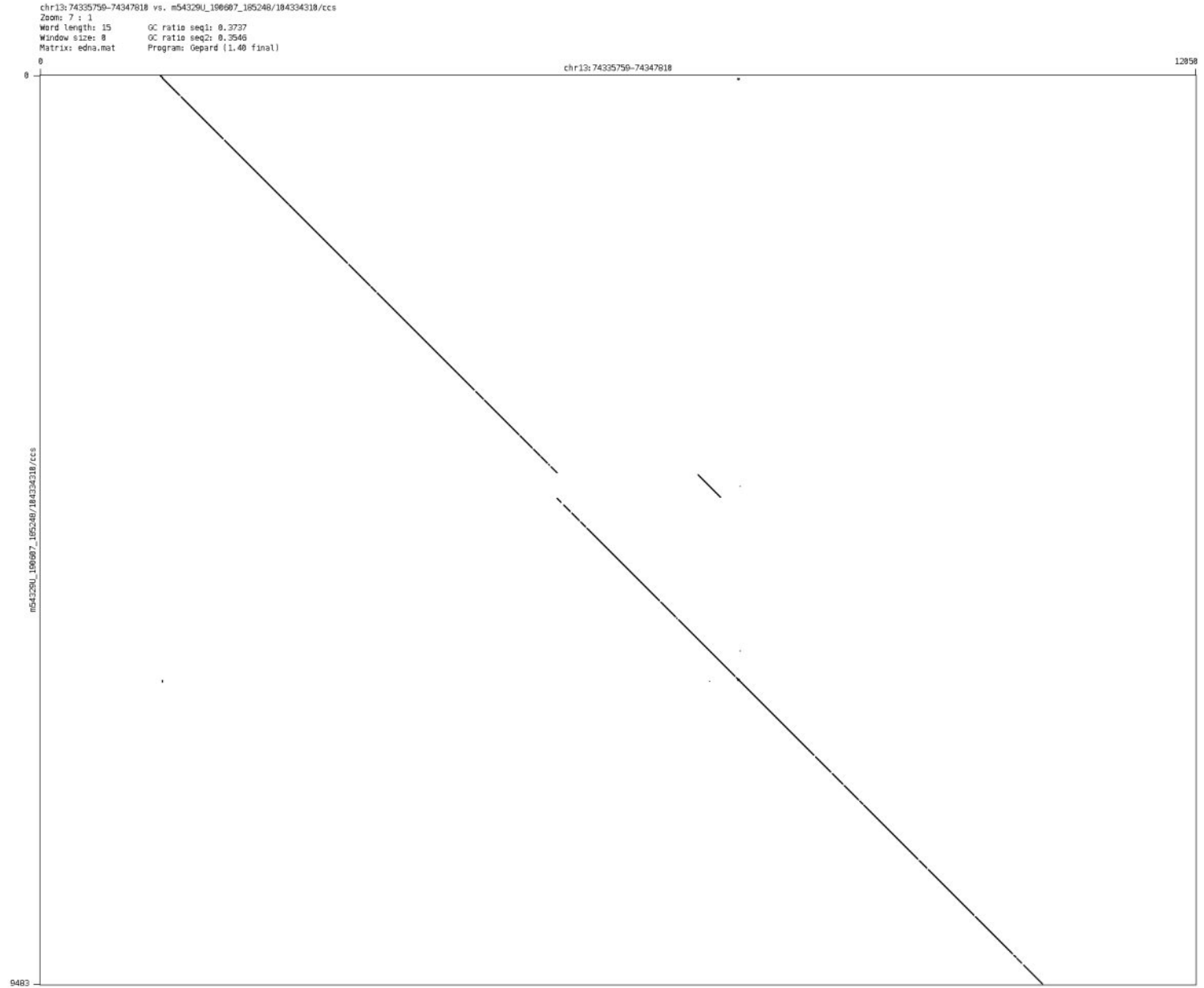
➤ chr13\_60977009\_60978048



➤ chr13\_71118063\_71118136

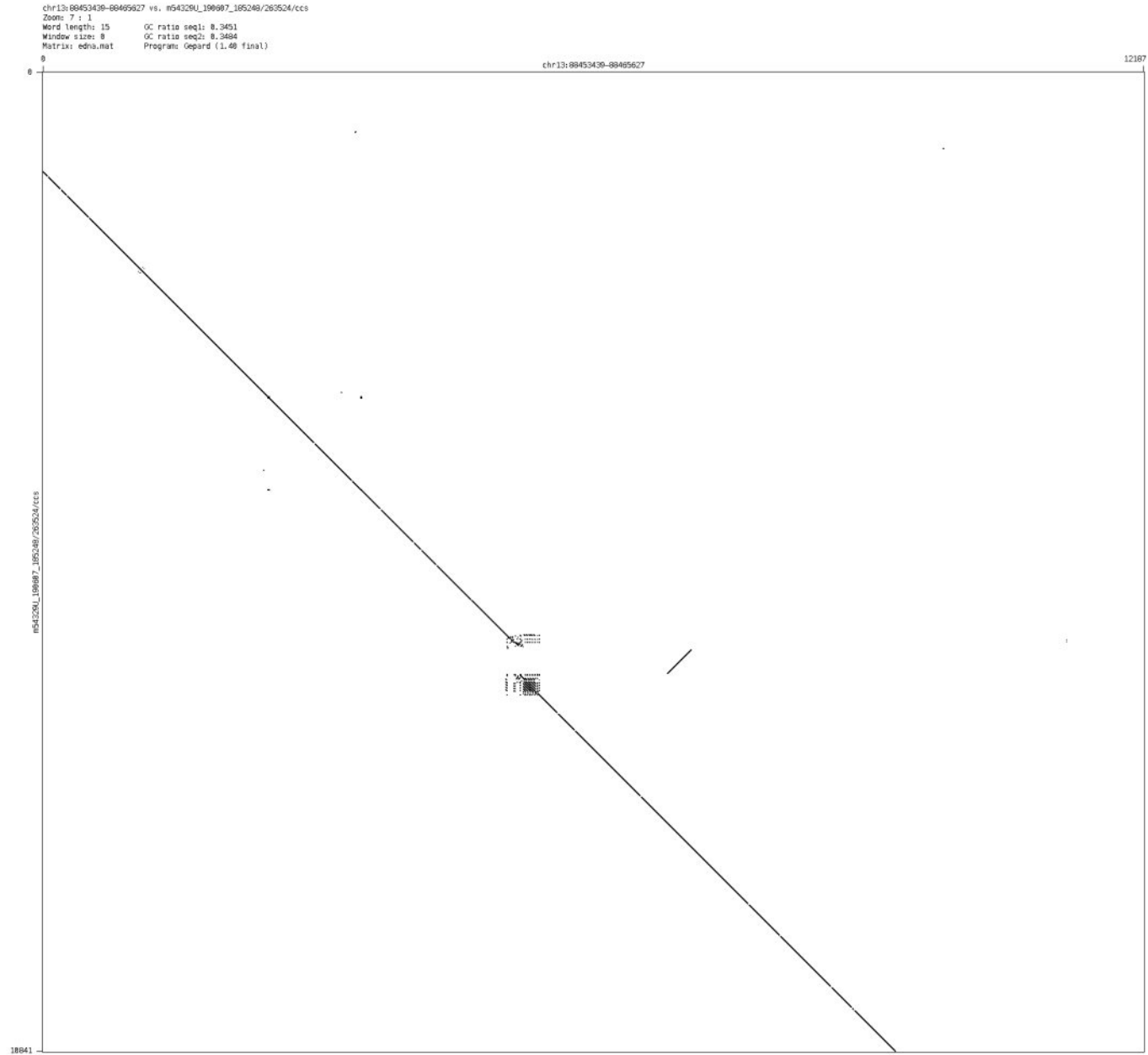


➤ chr13\_74340759\_74342810

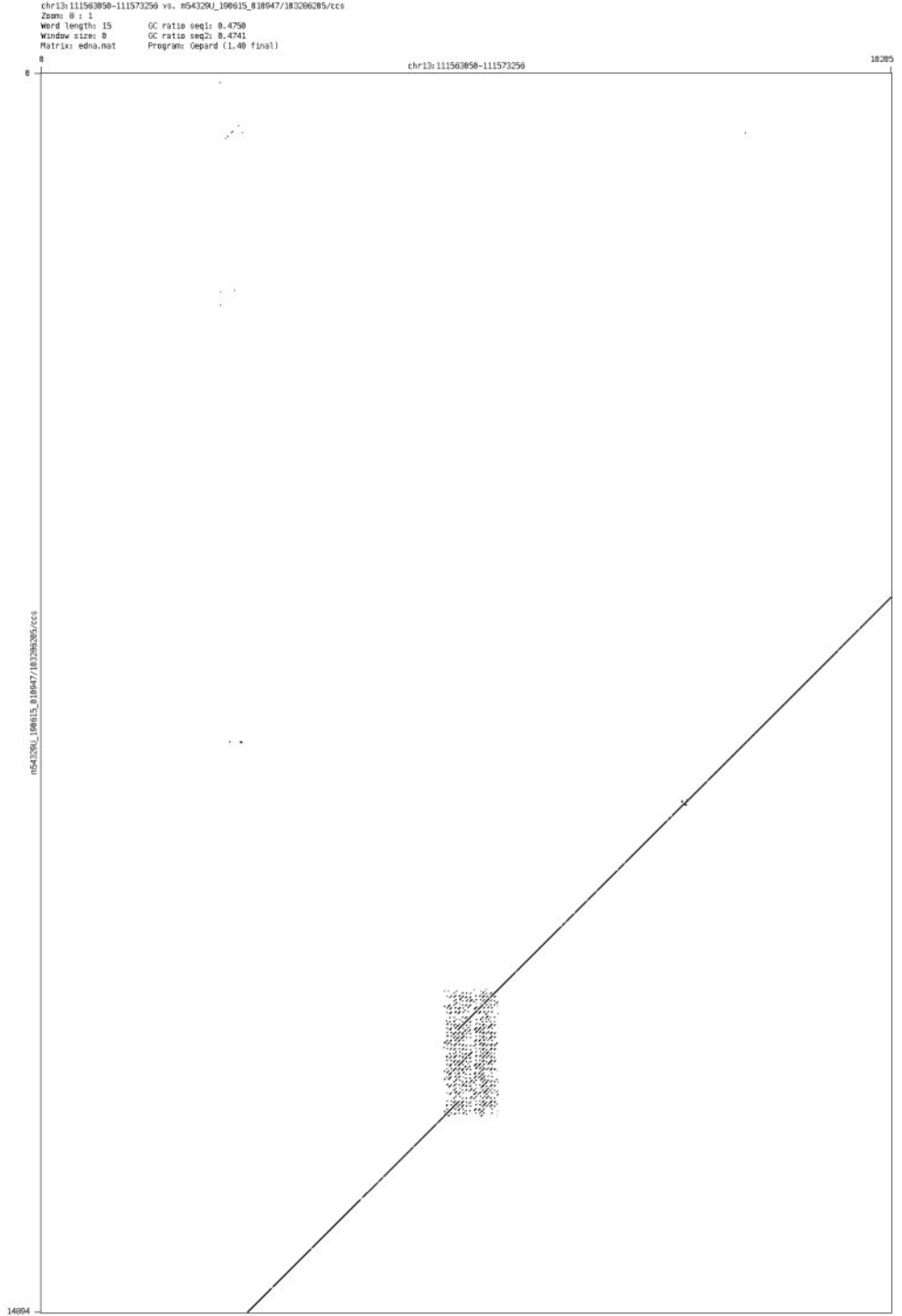




➤ chr13\_88458439\_88460627



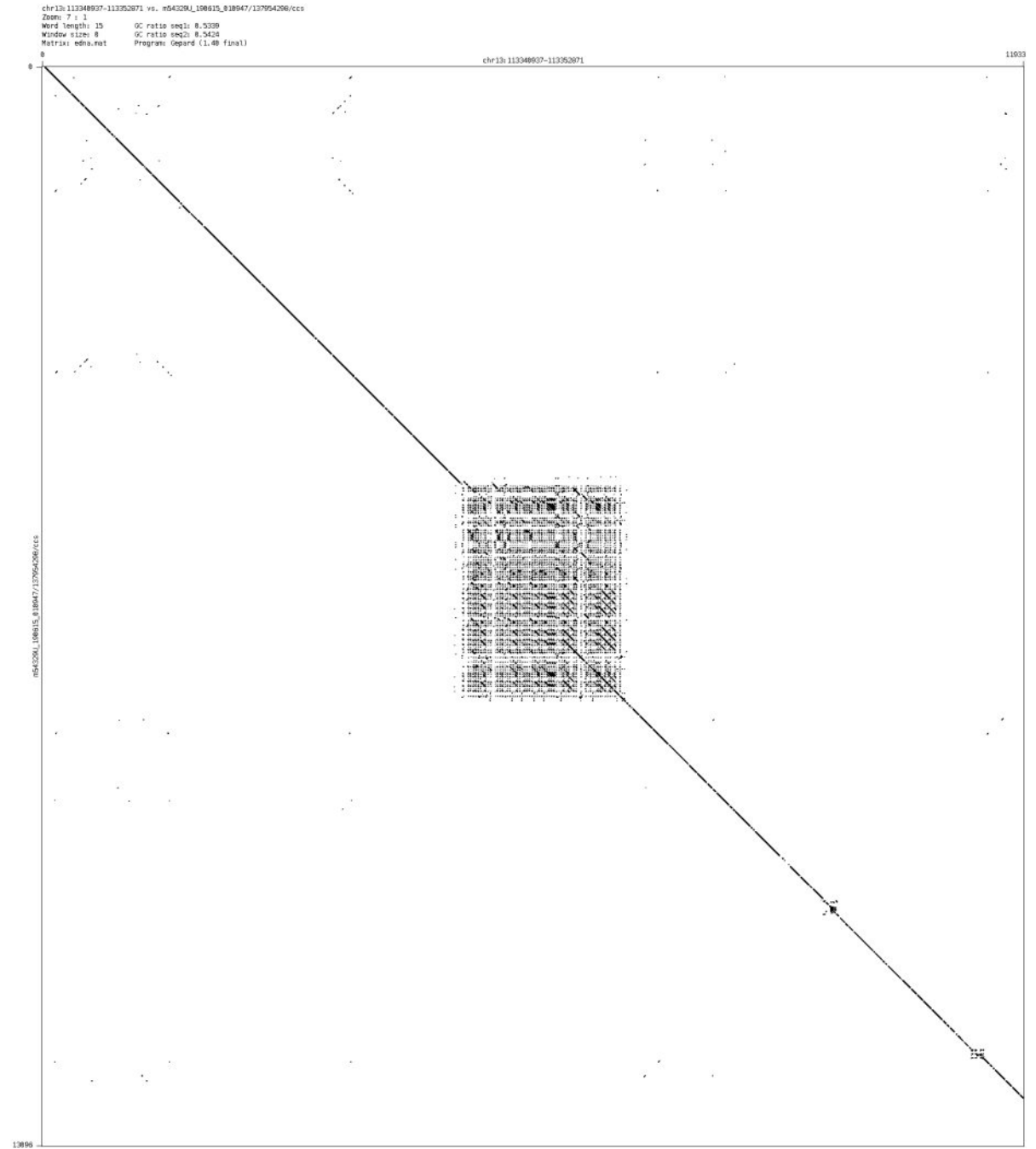
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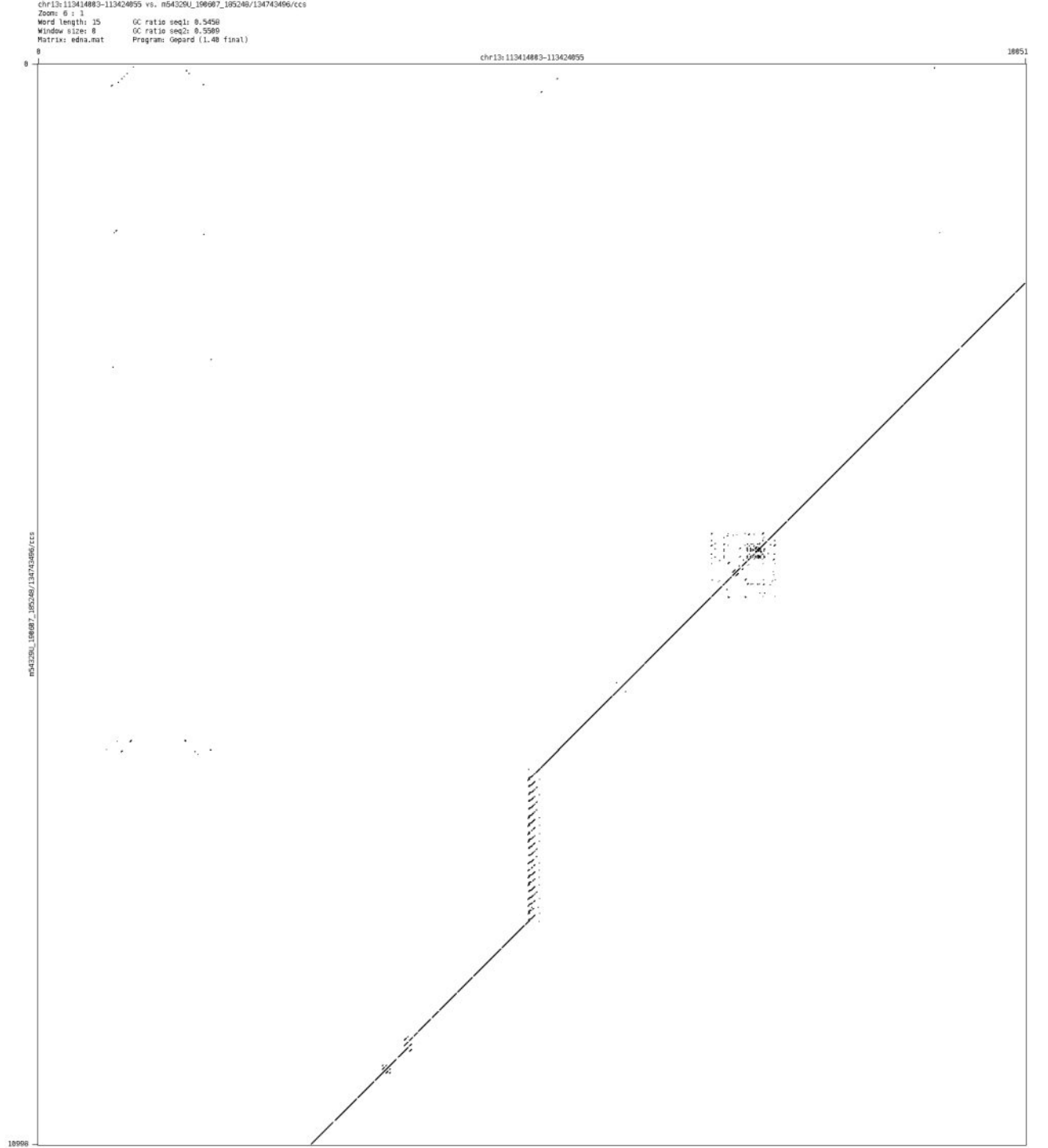
➤ chr13\_113176451\_113176522



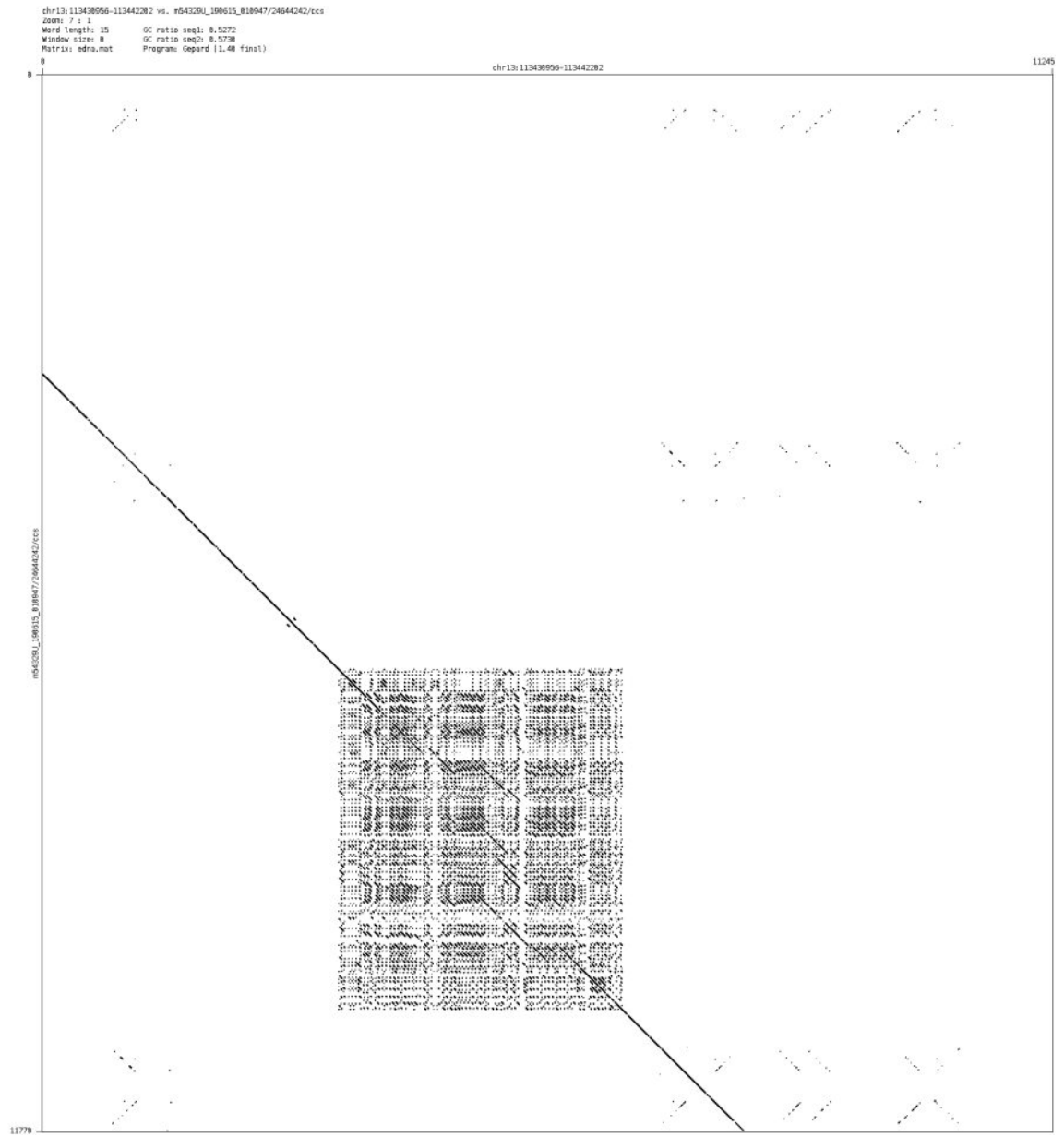
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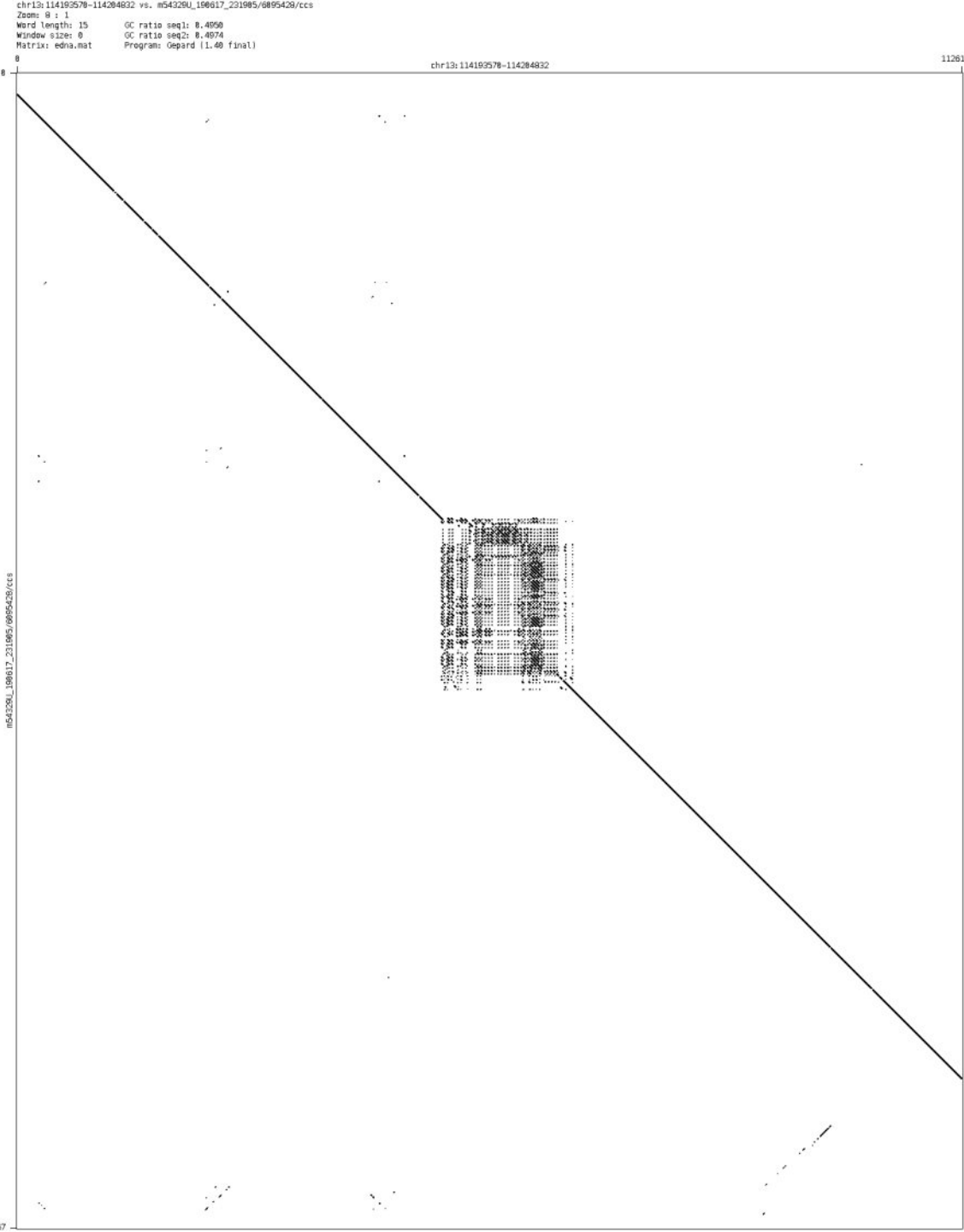
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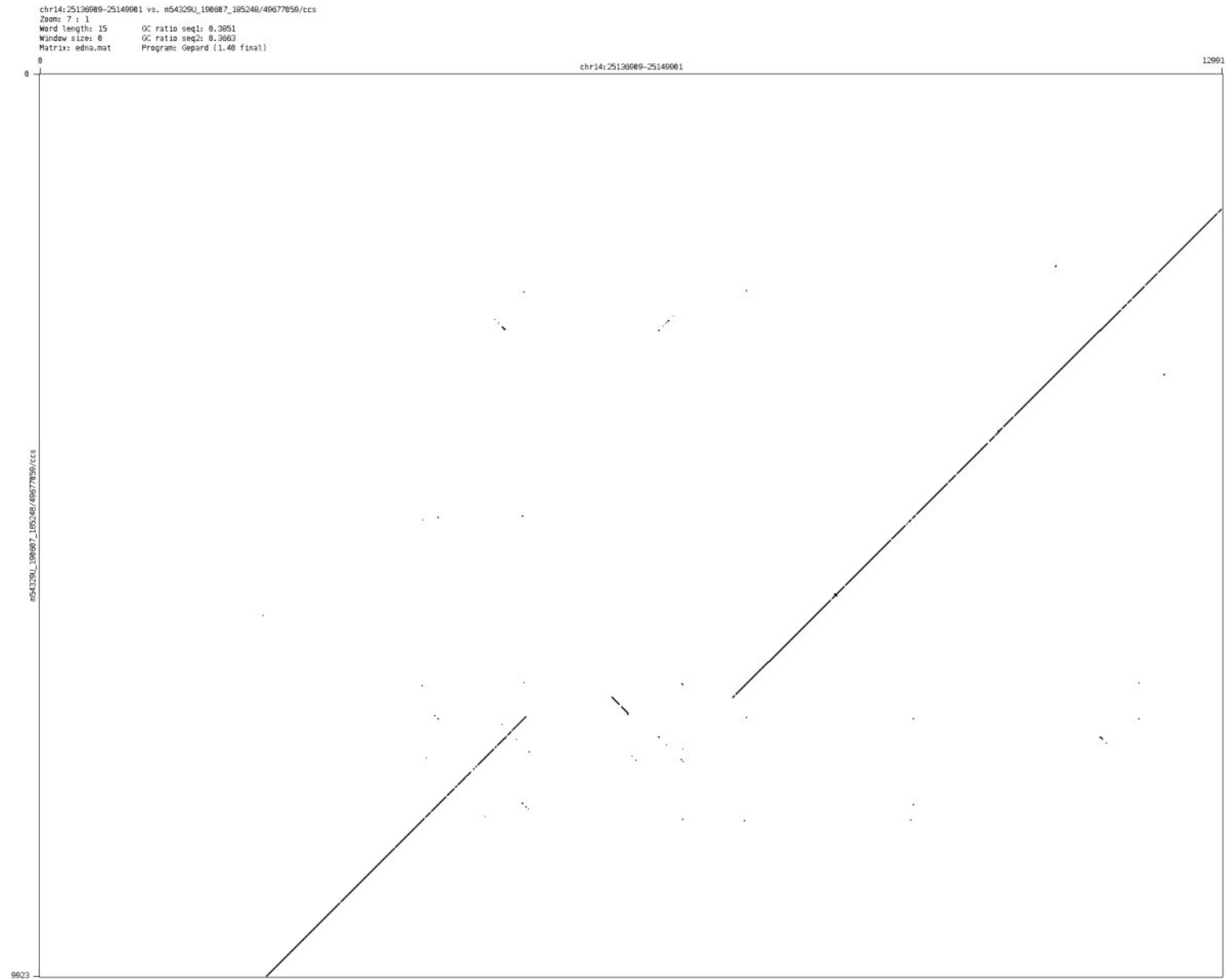
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➤ chr13\_114198570\_114199832

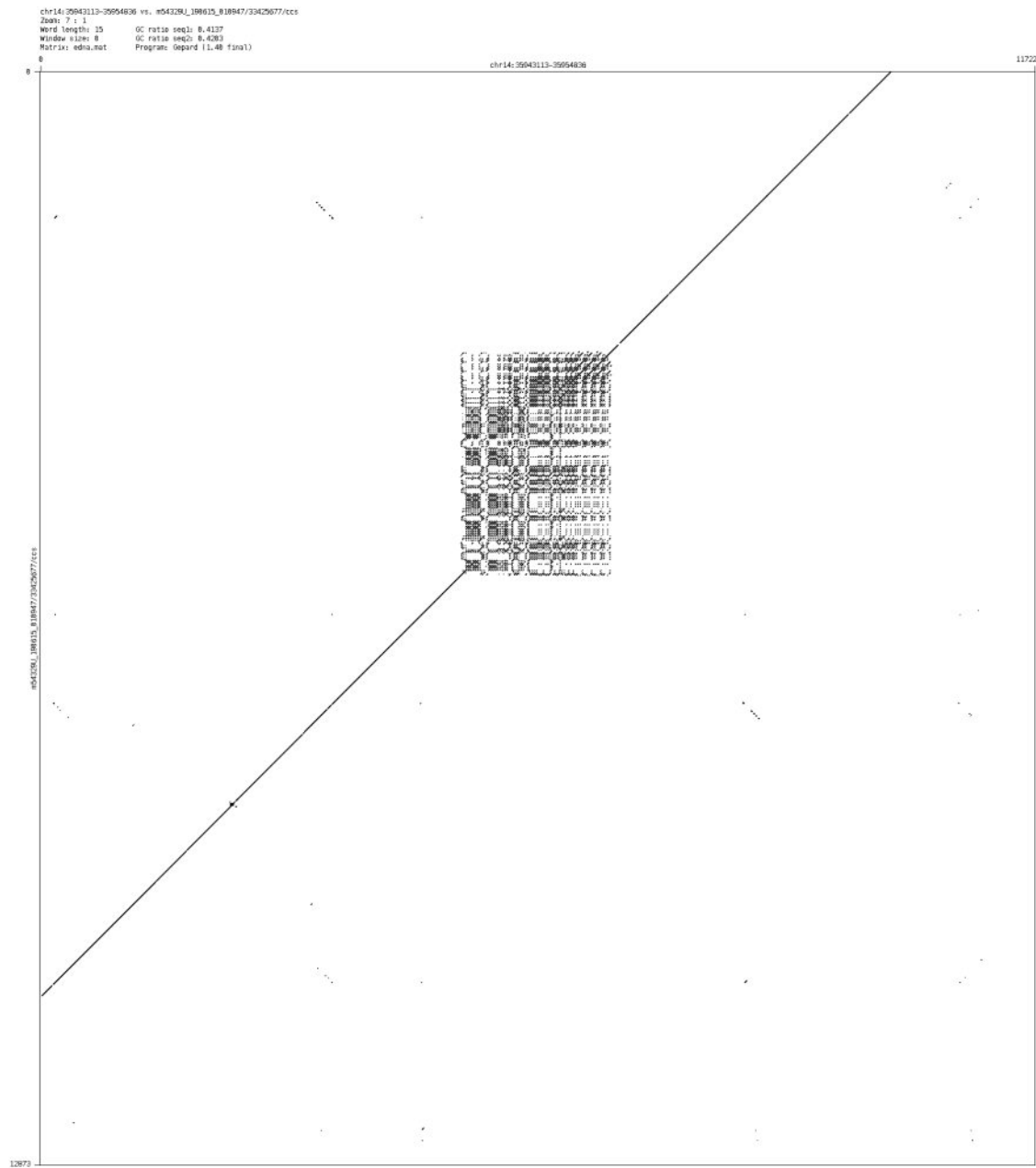


➤ chr14\_25141909\_25144901

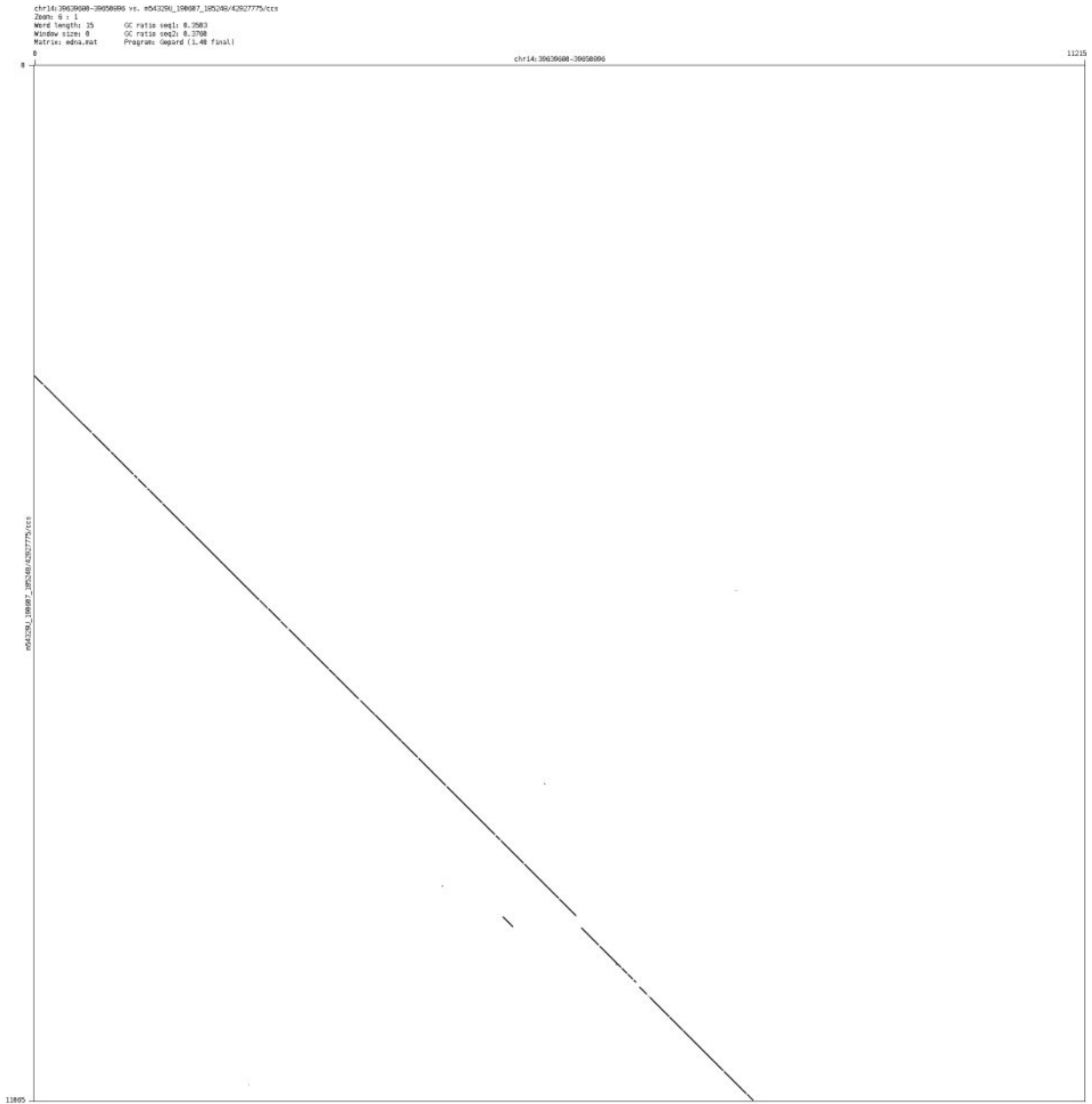




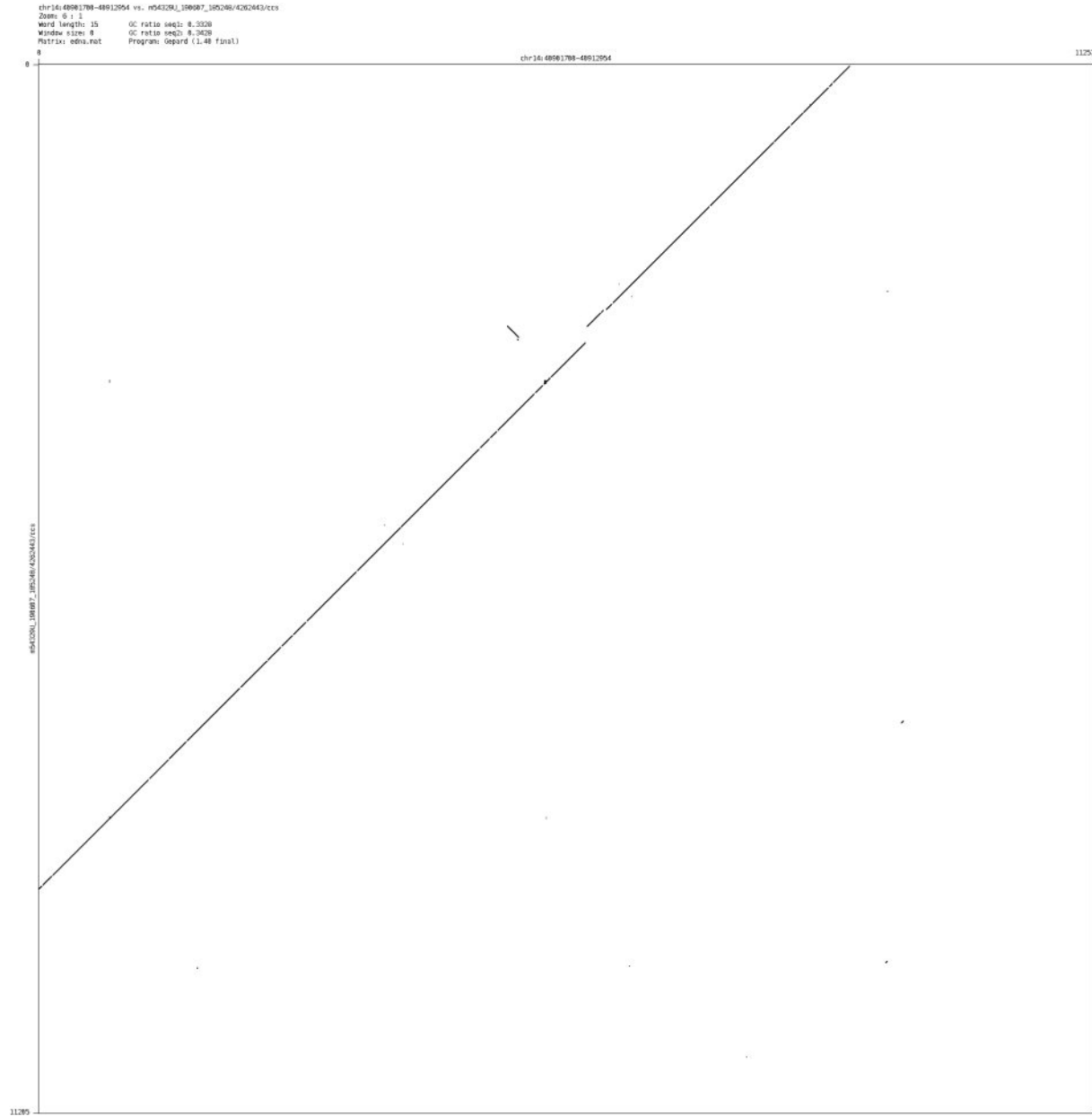
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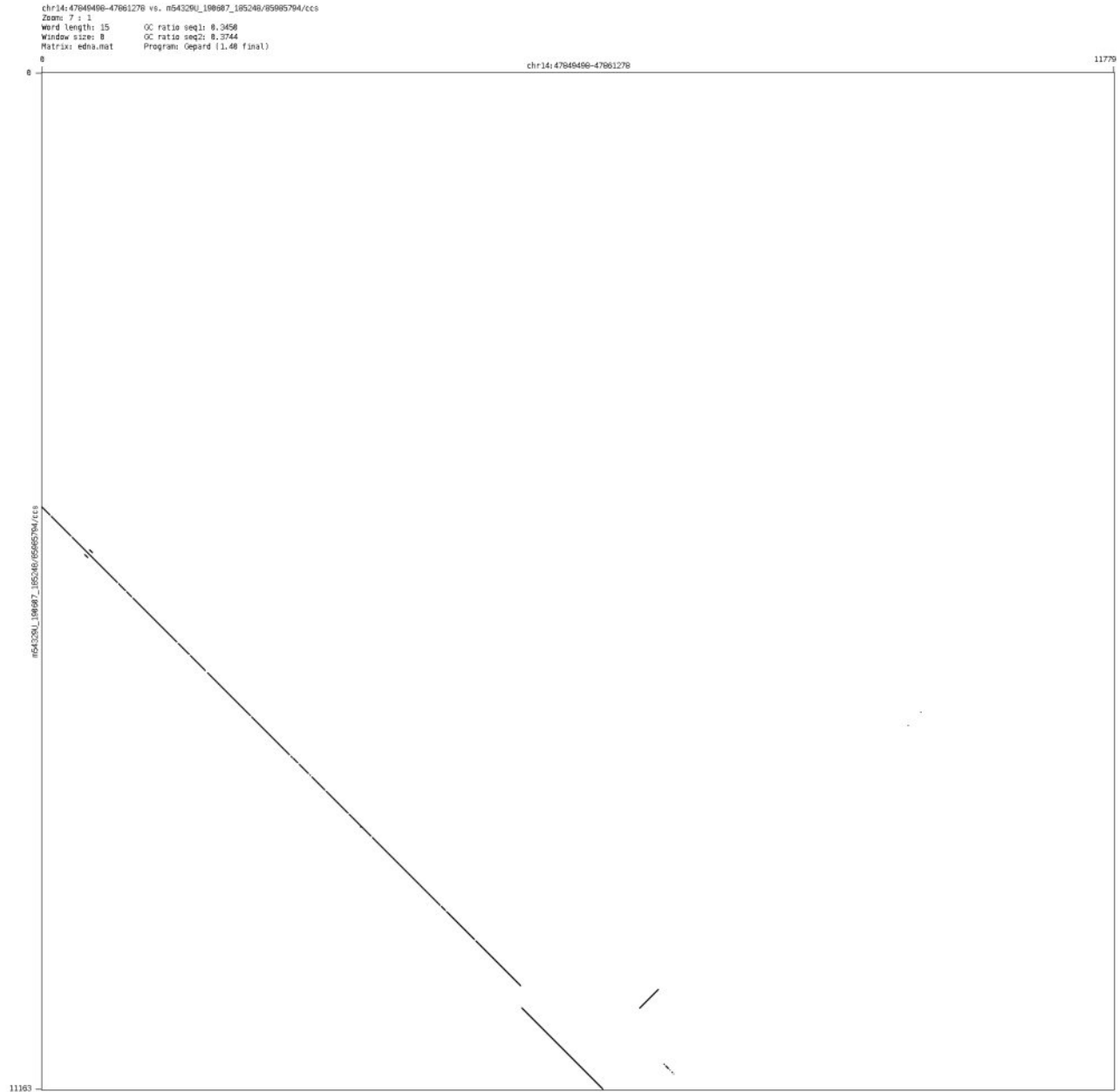
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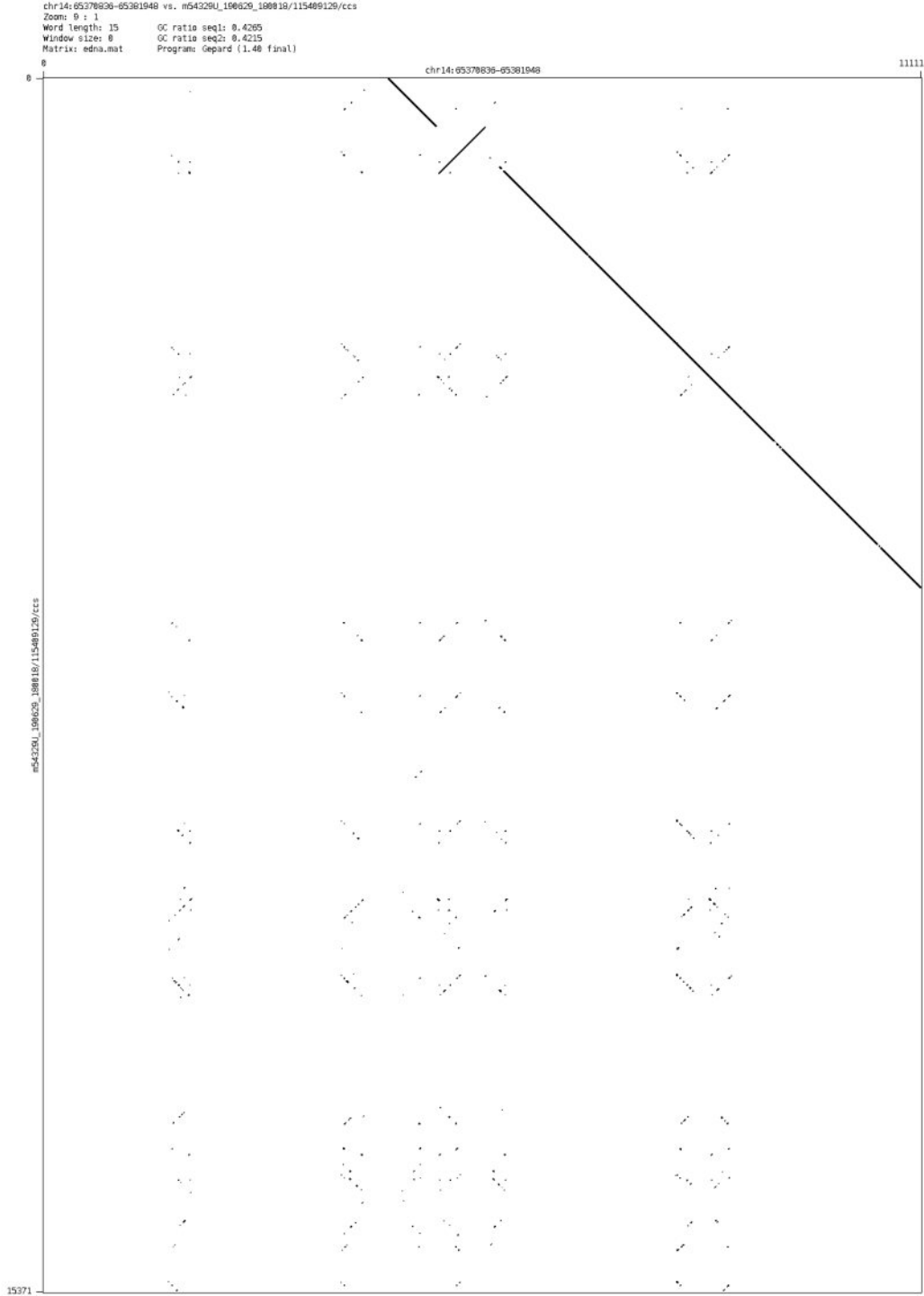
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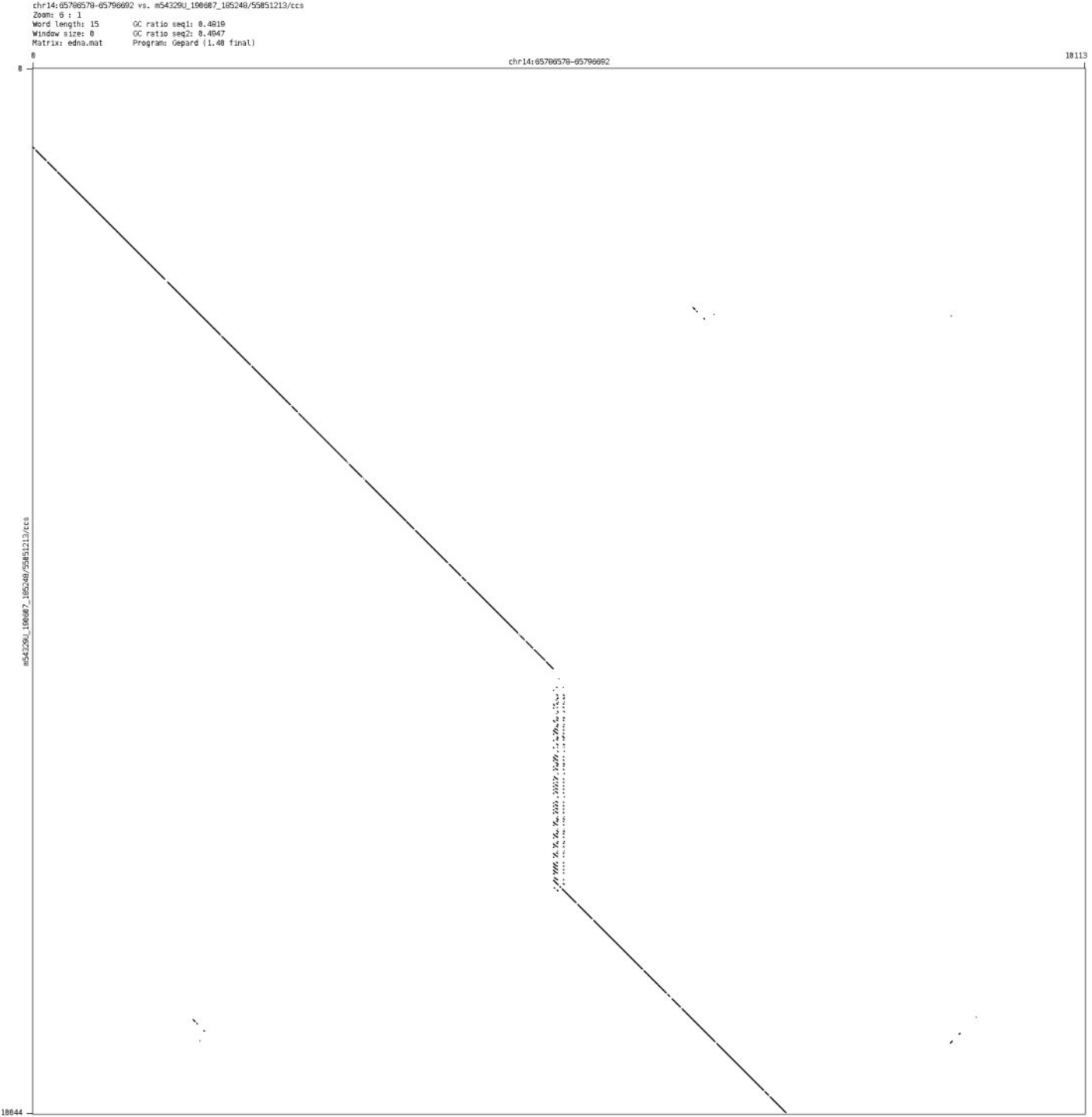
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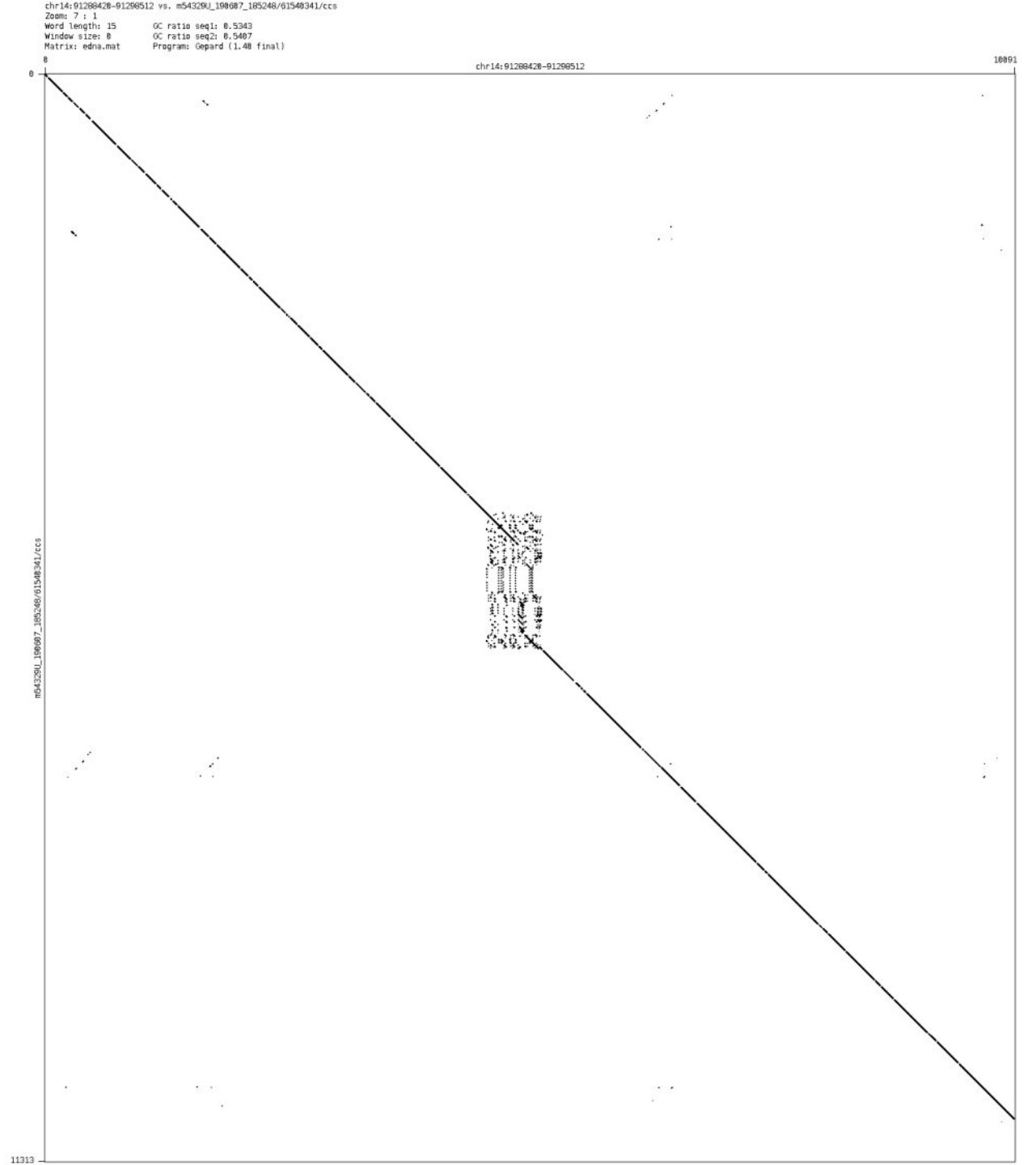
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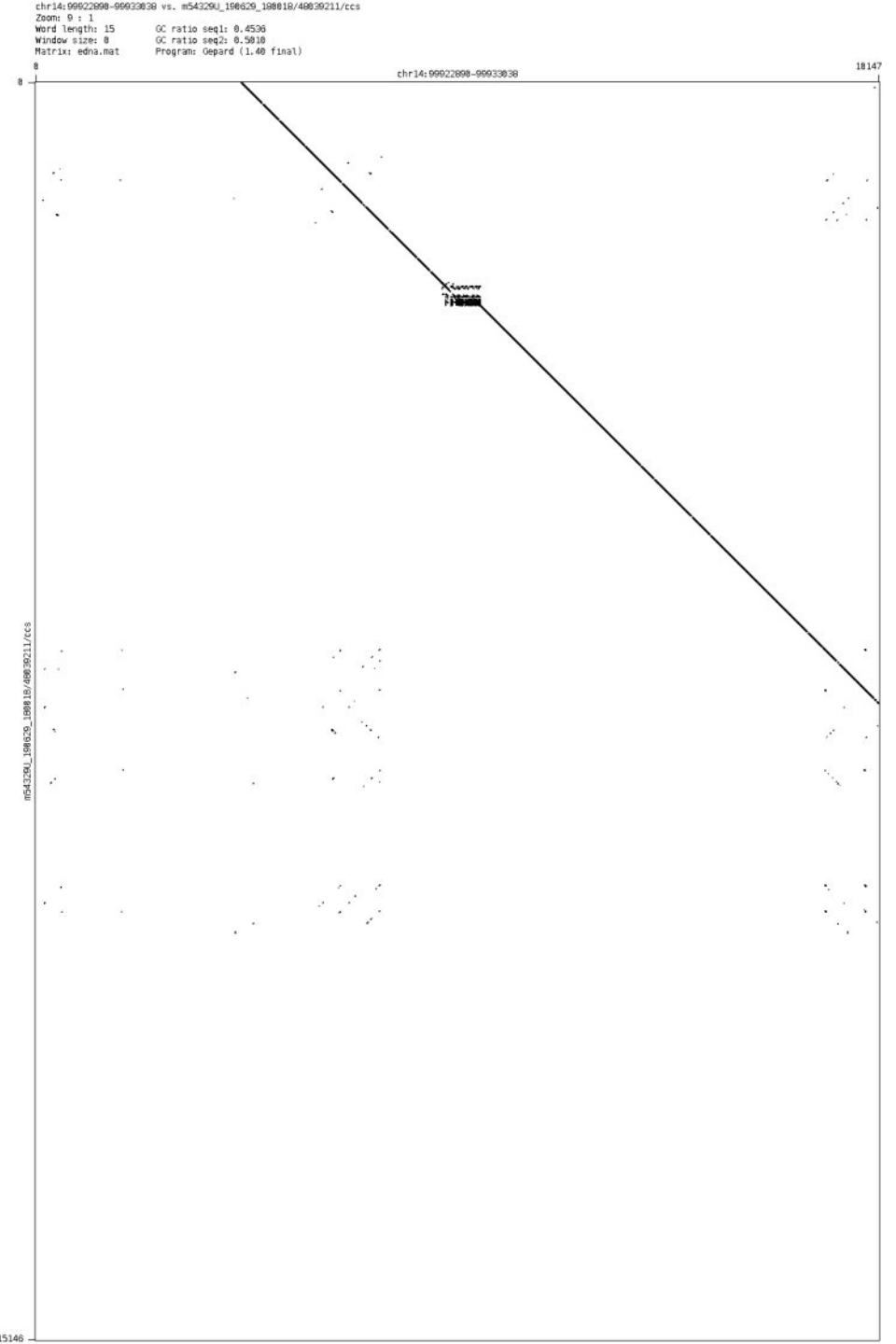
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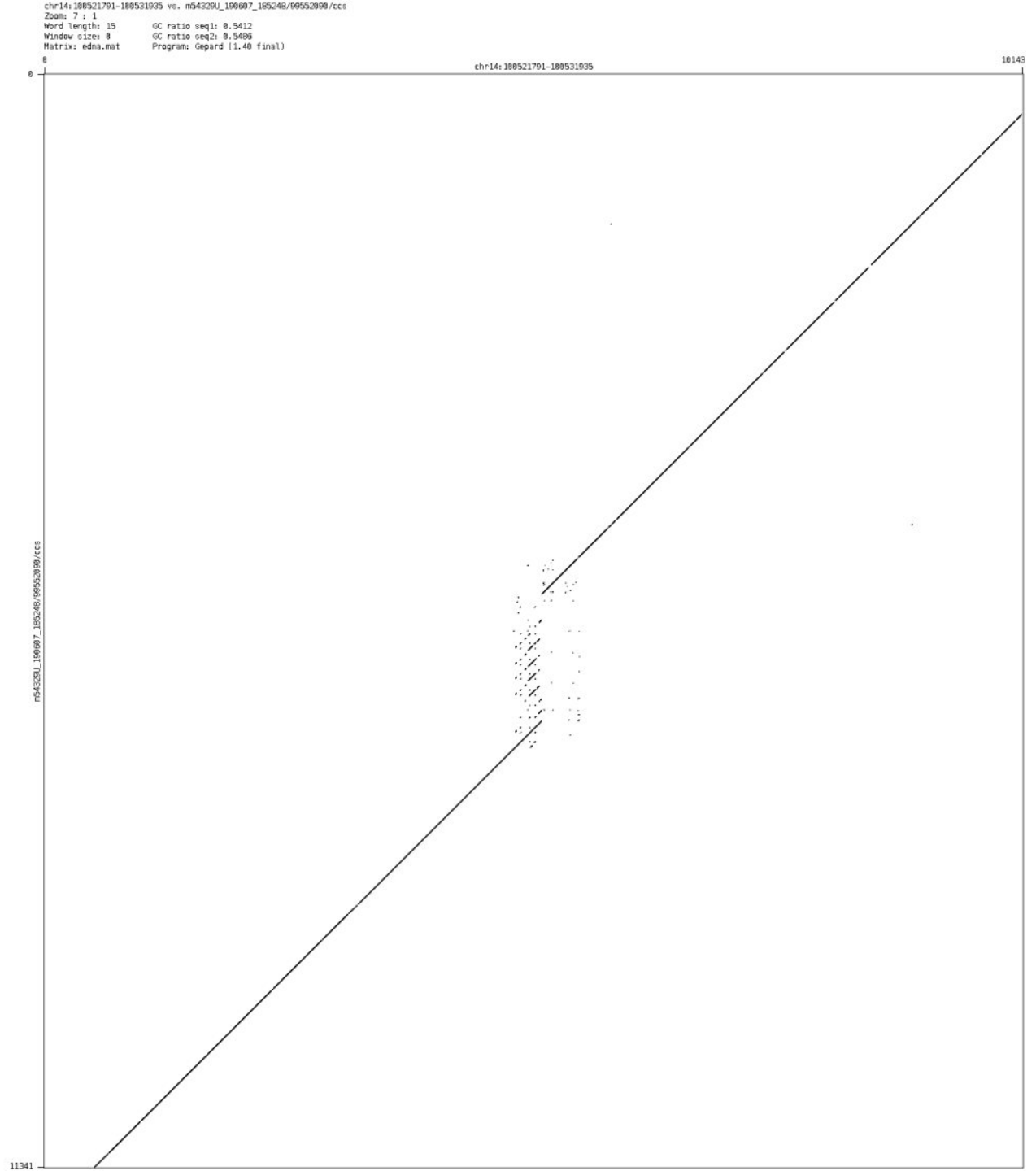


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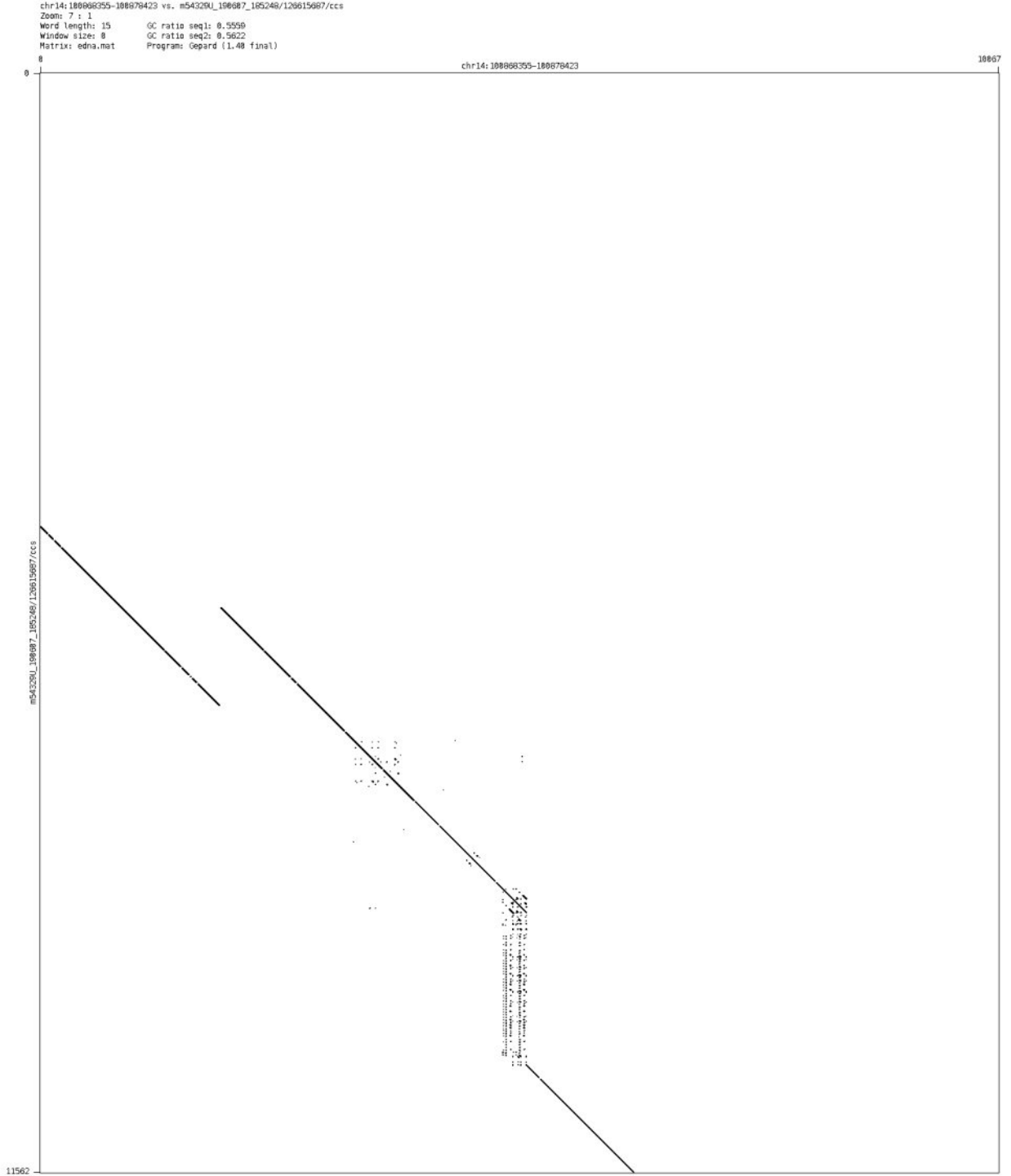




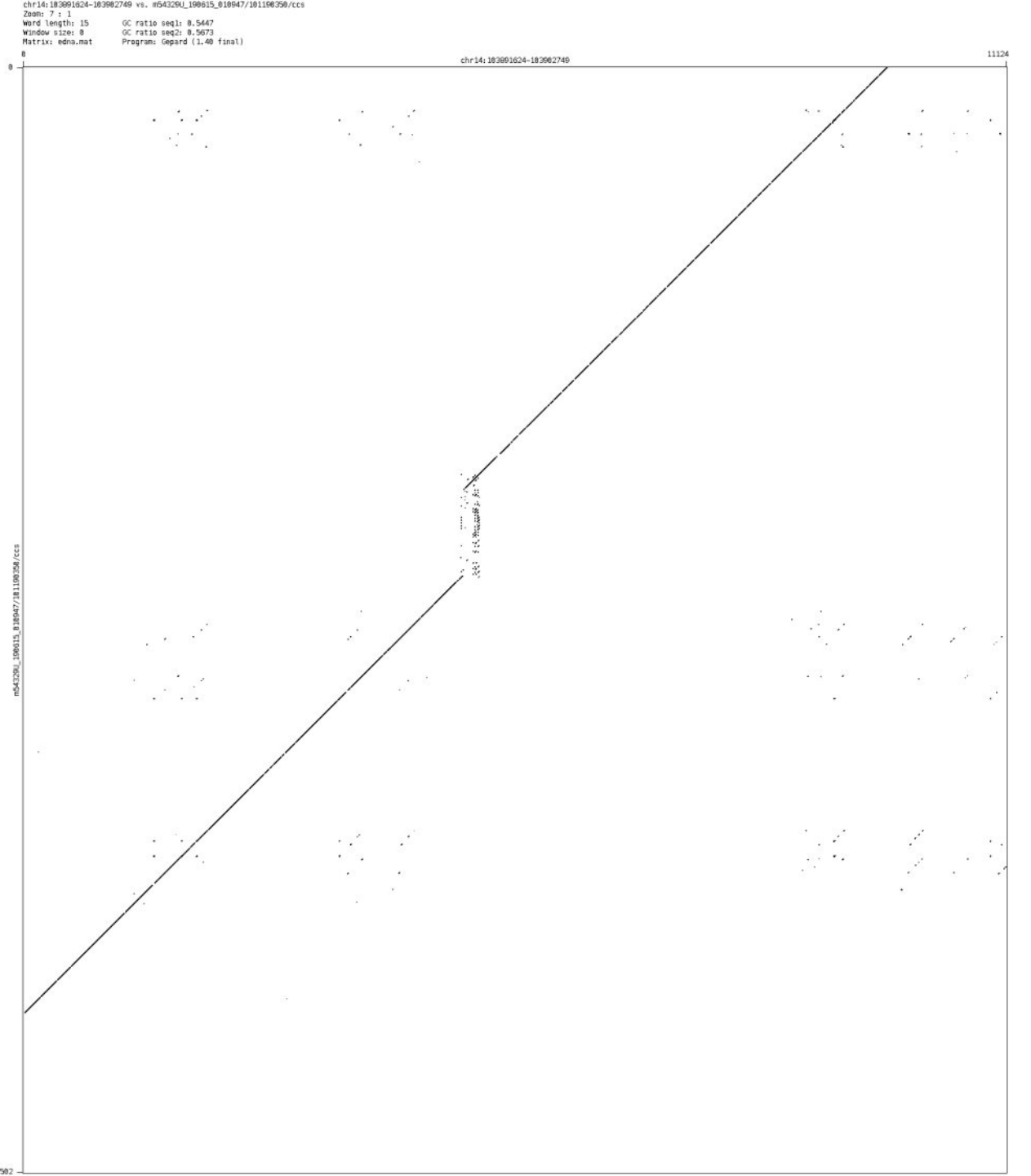
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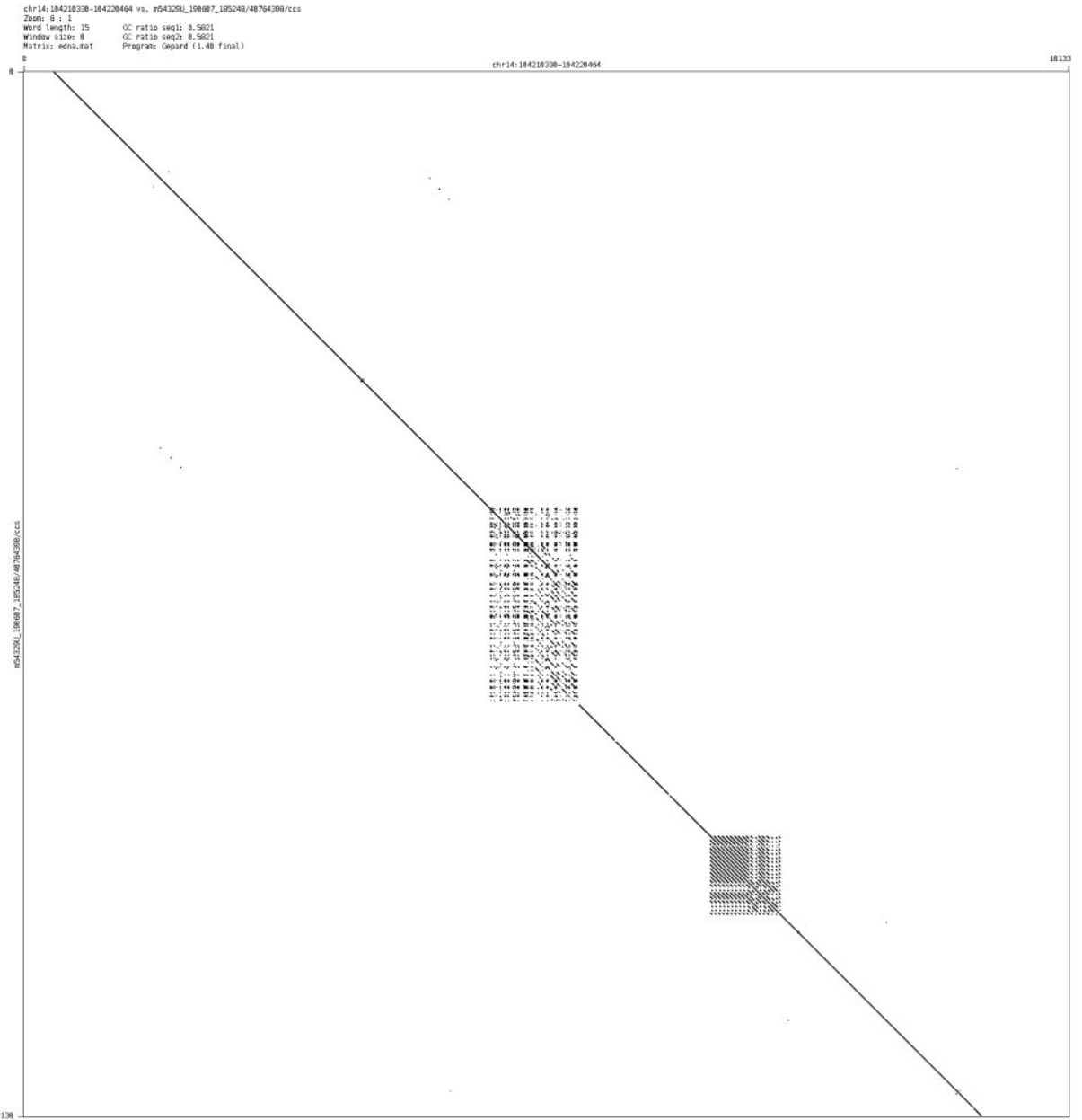
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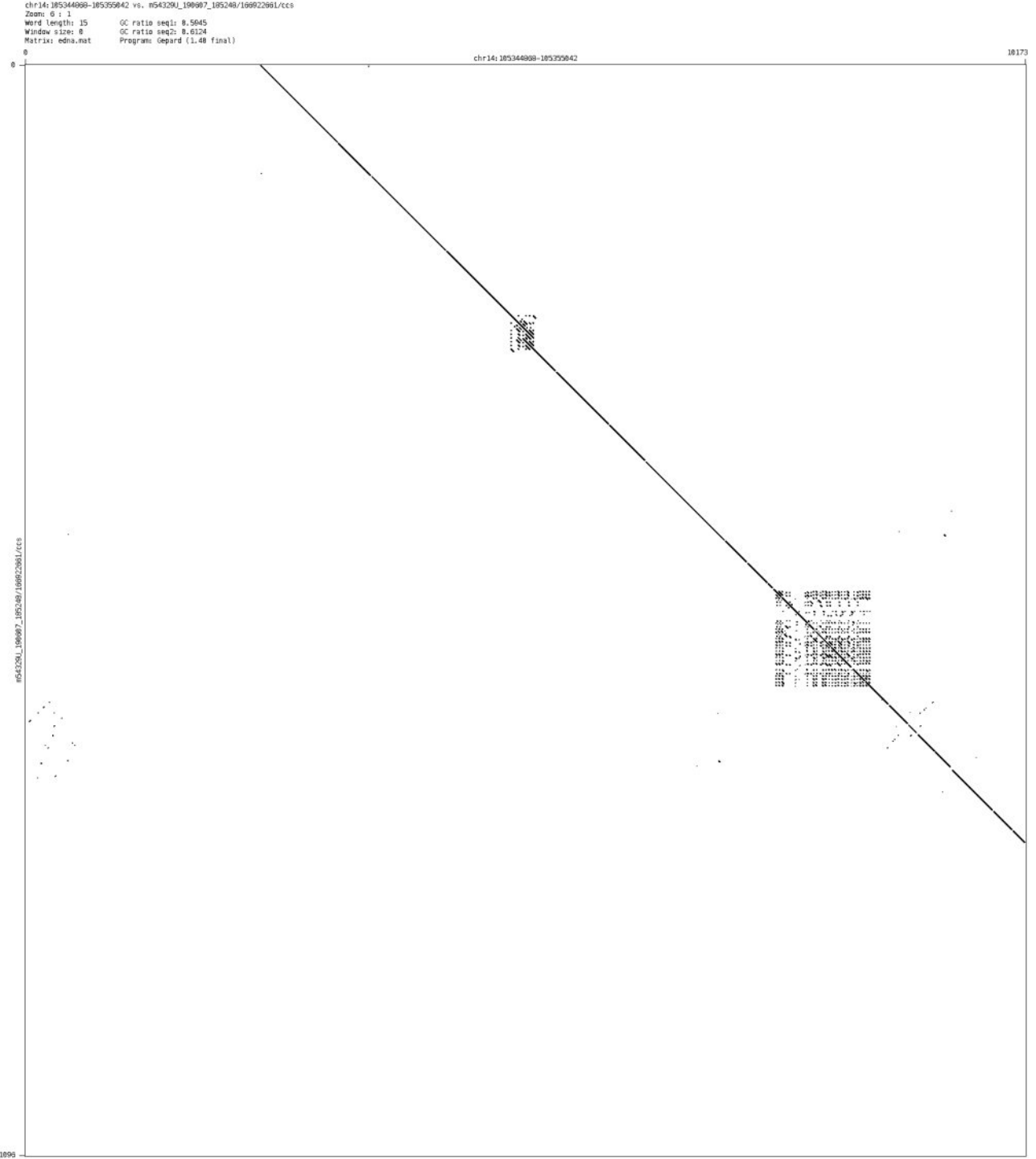
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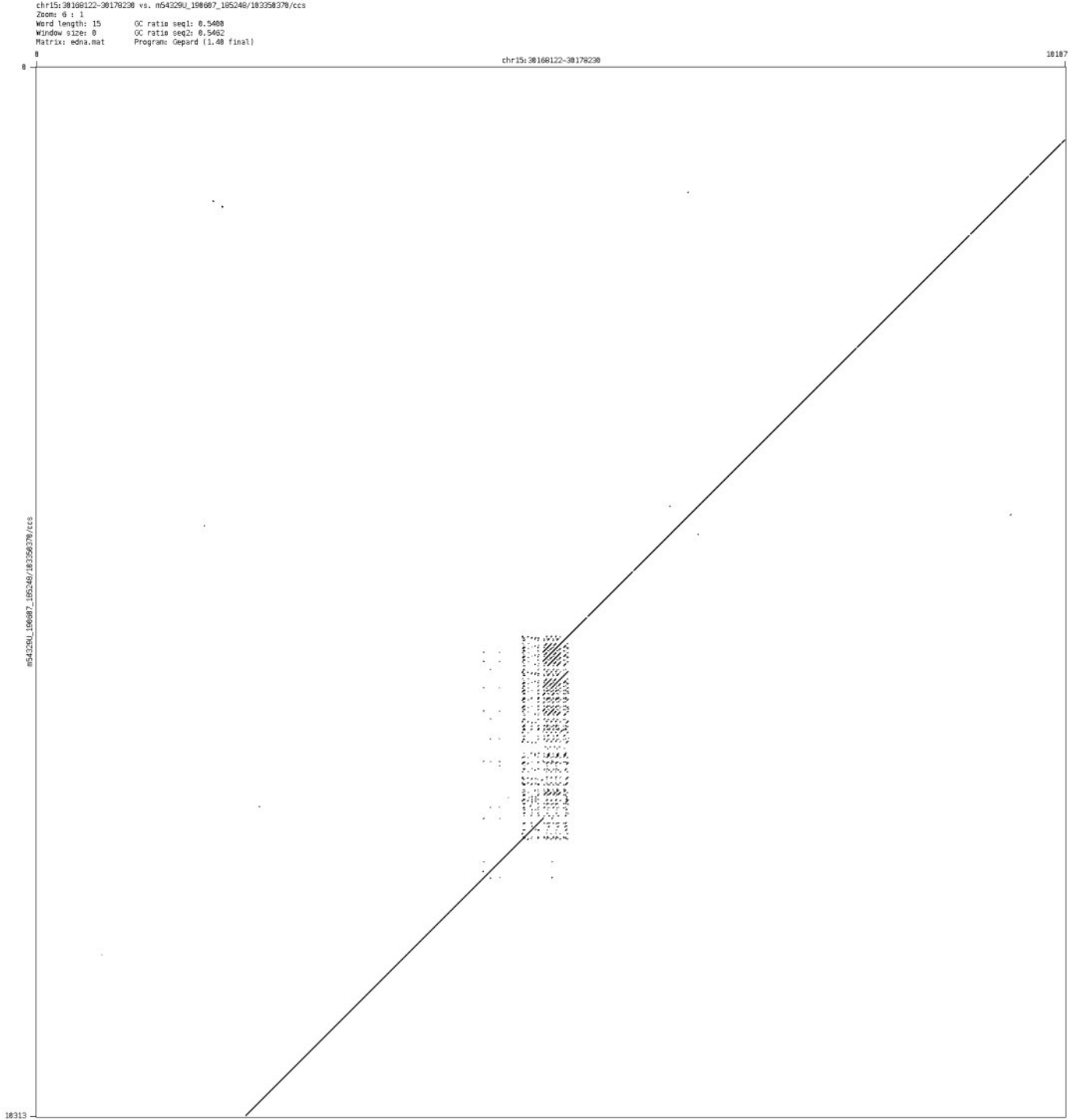
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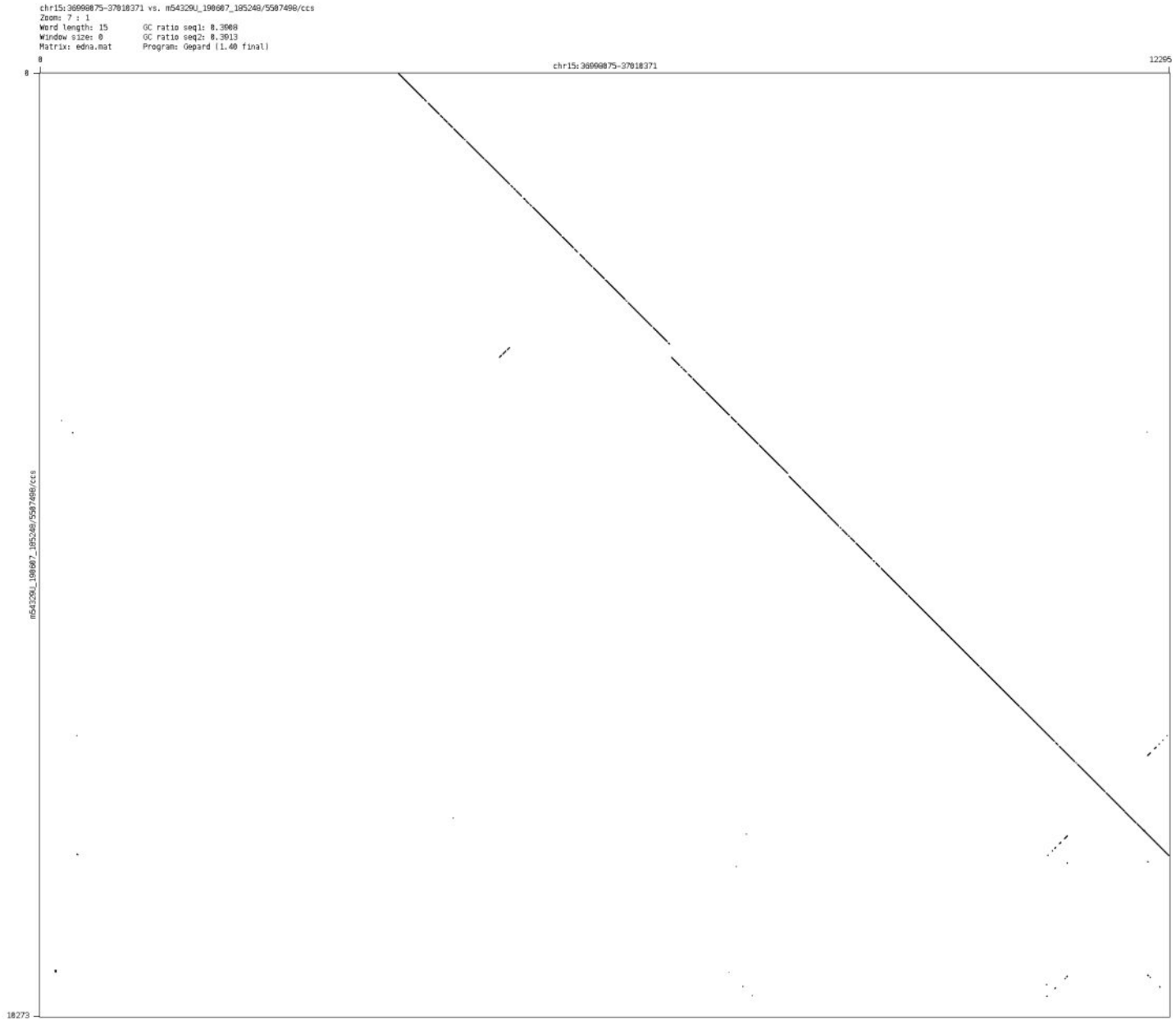
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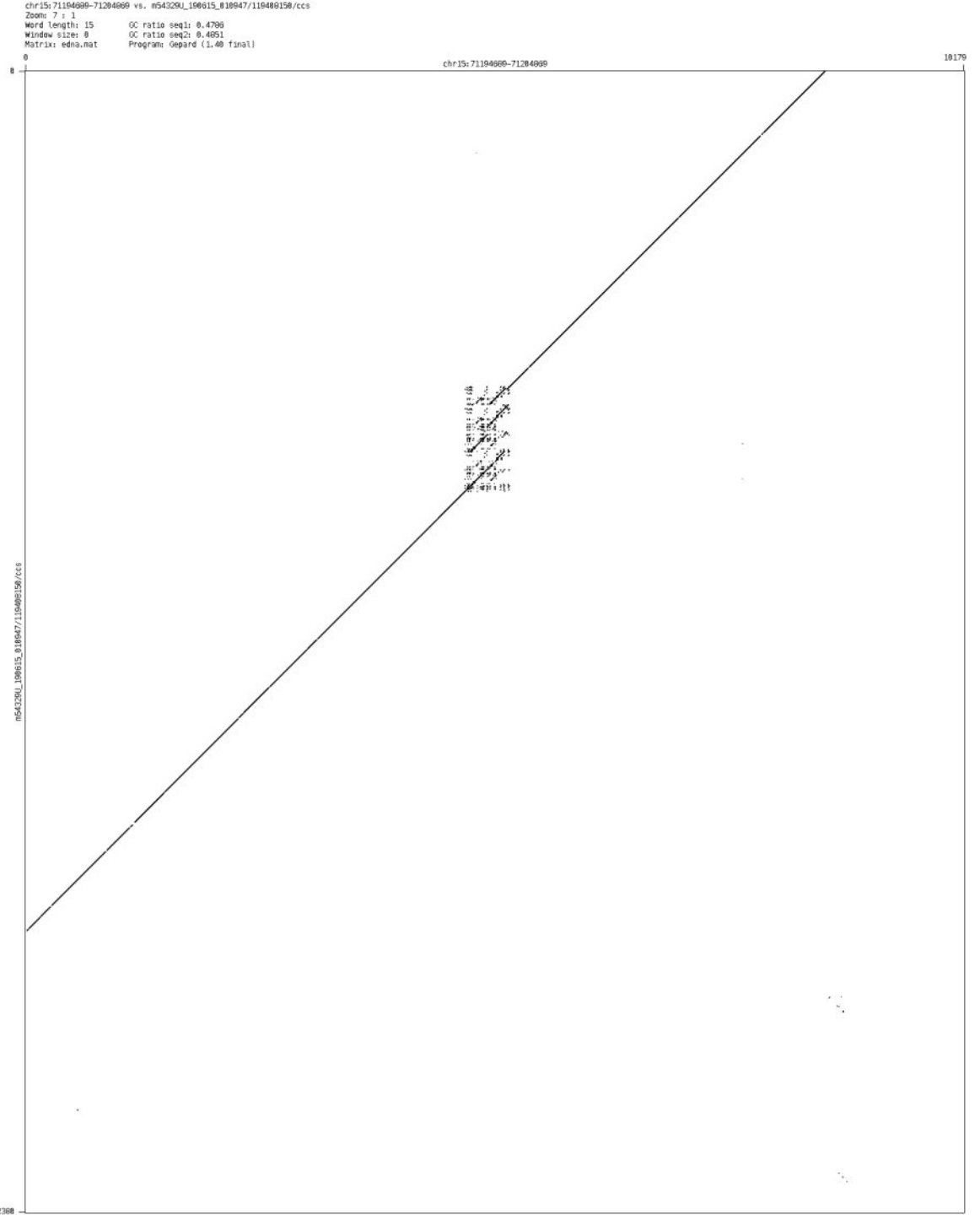
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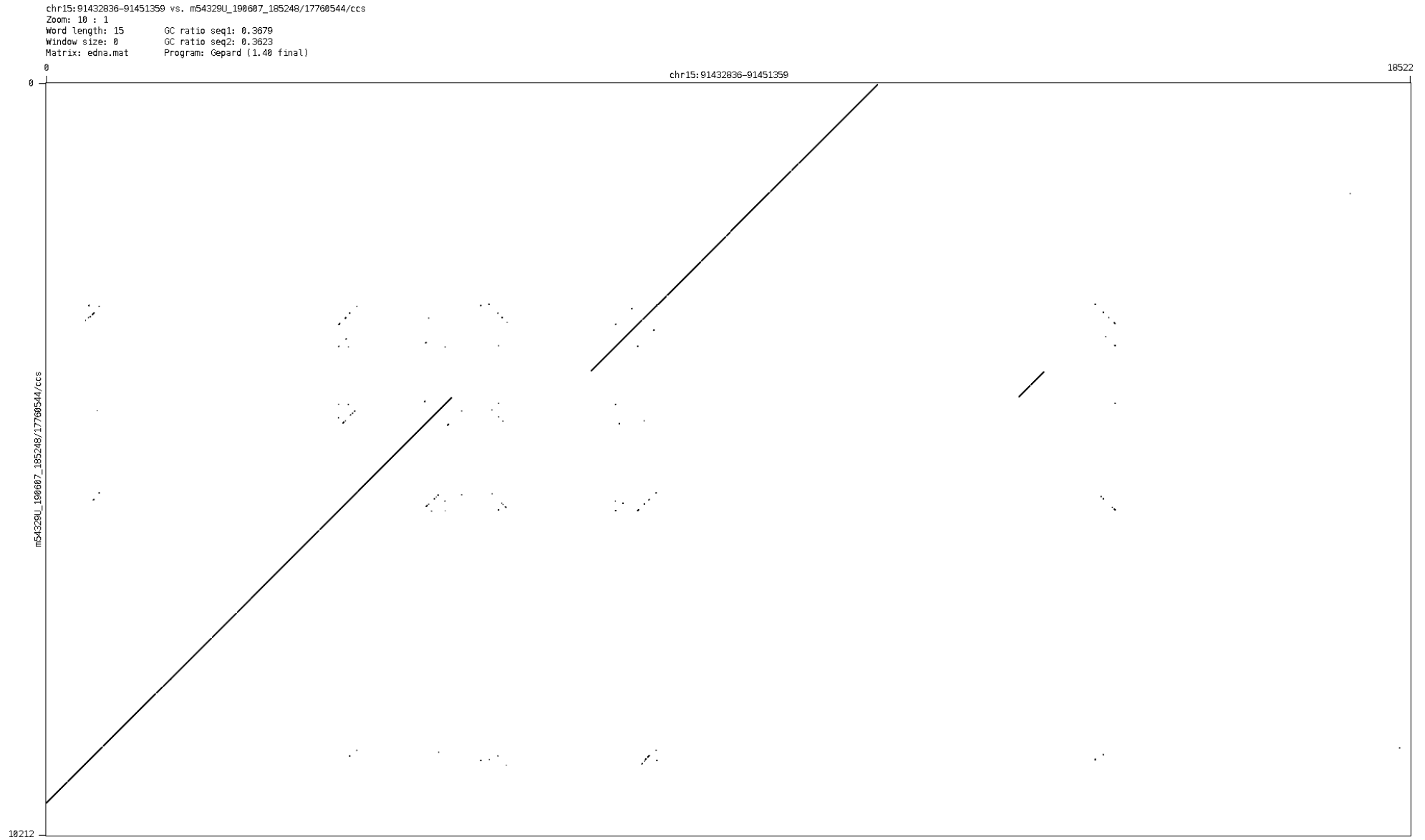


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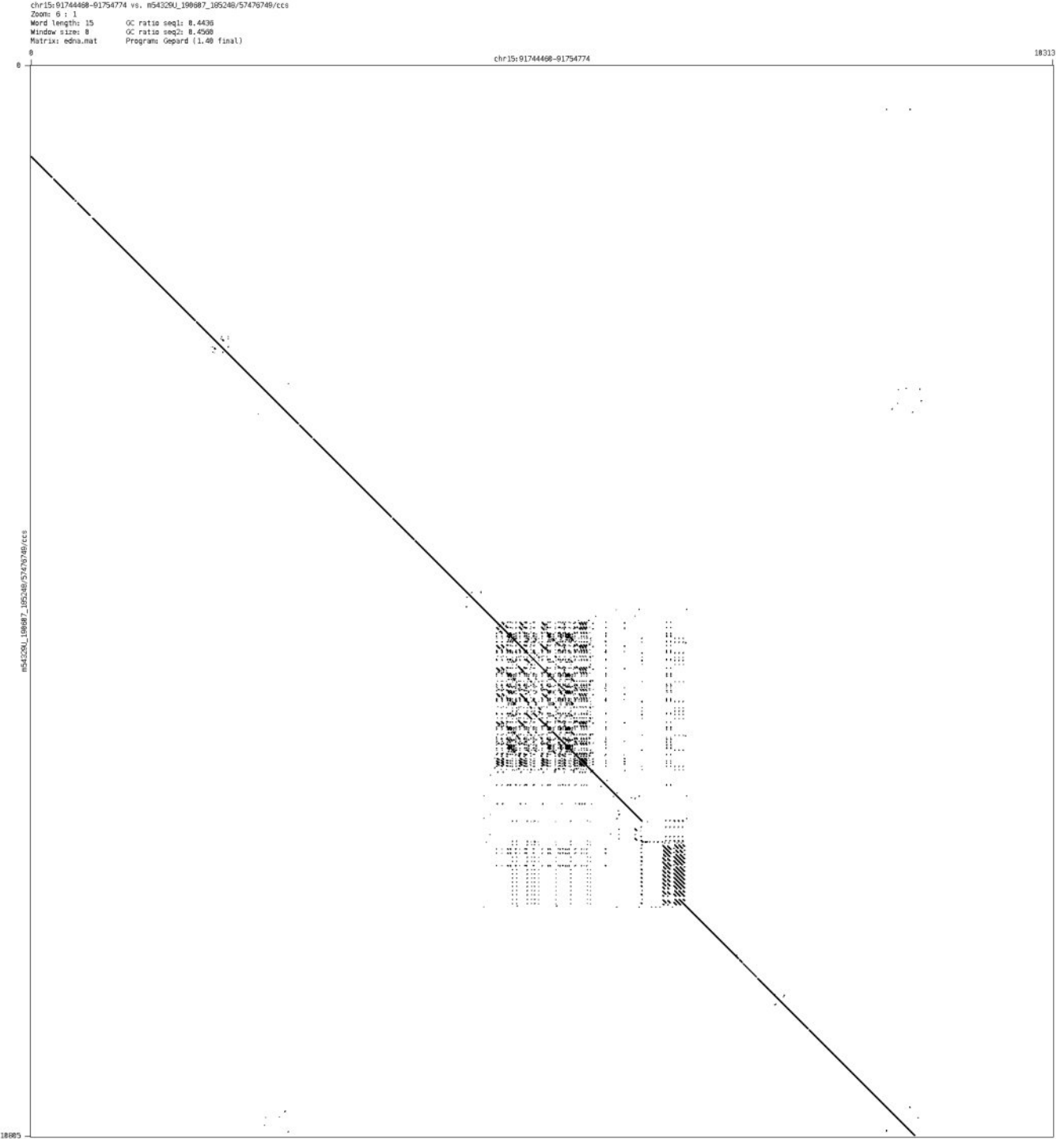




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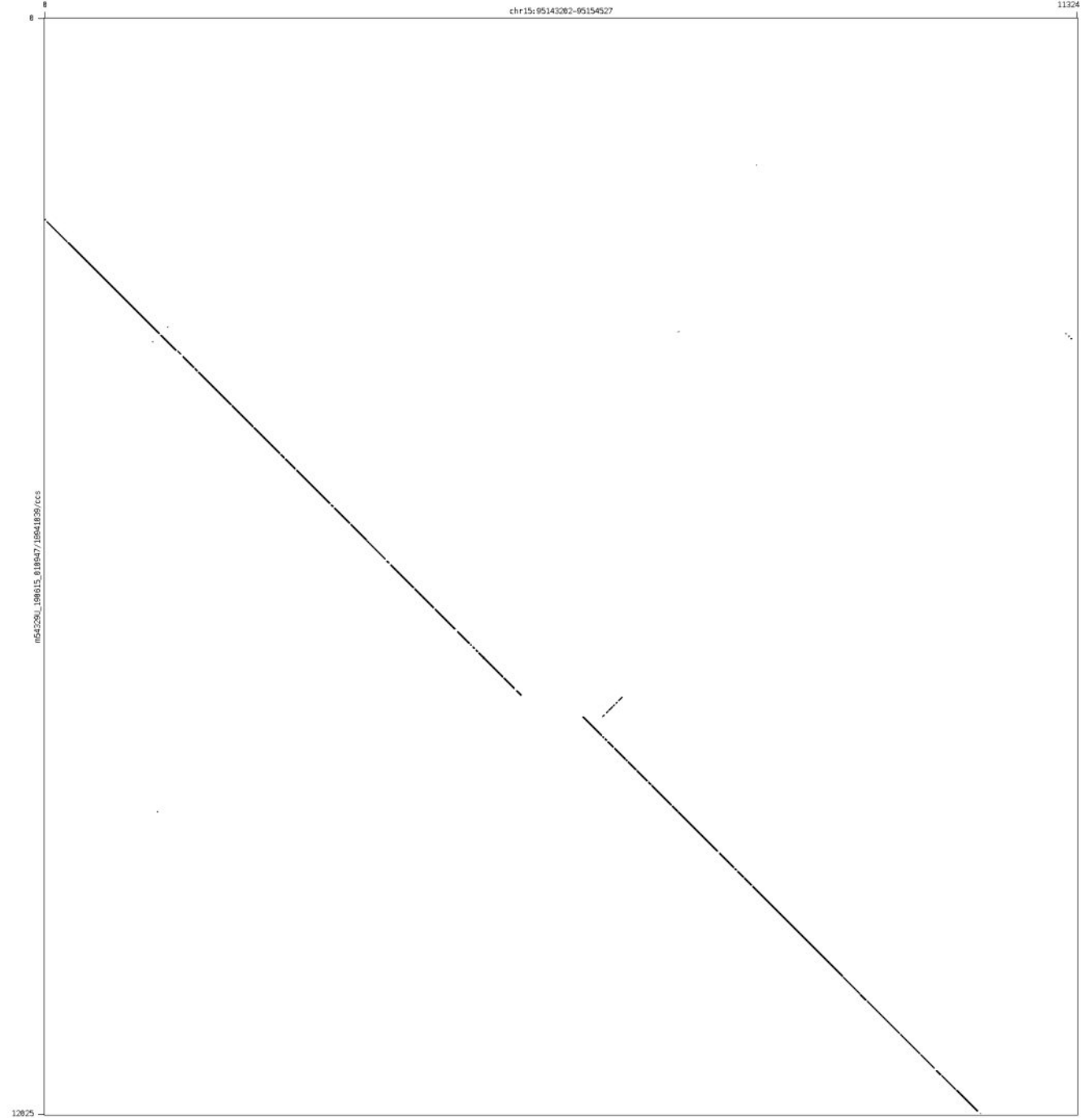


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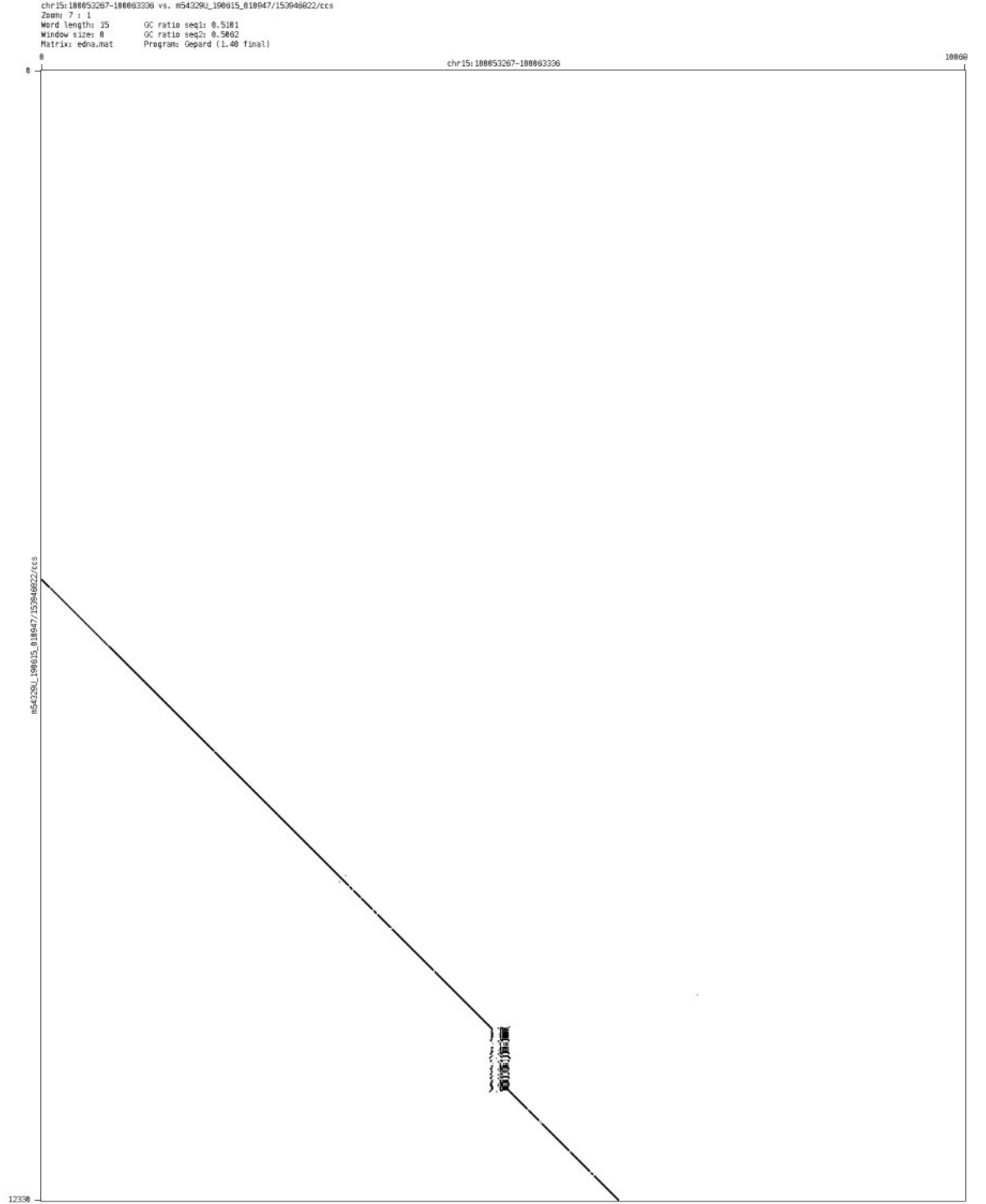


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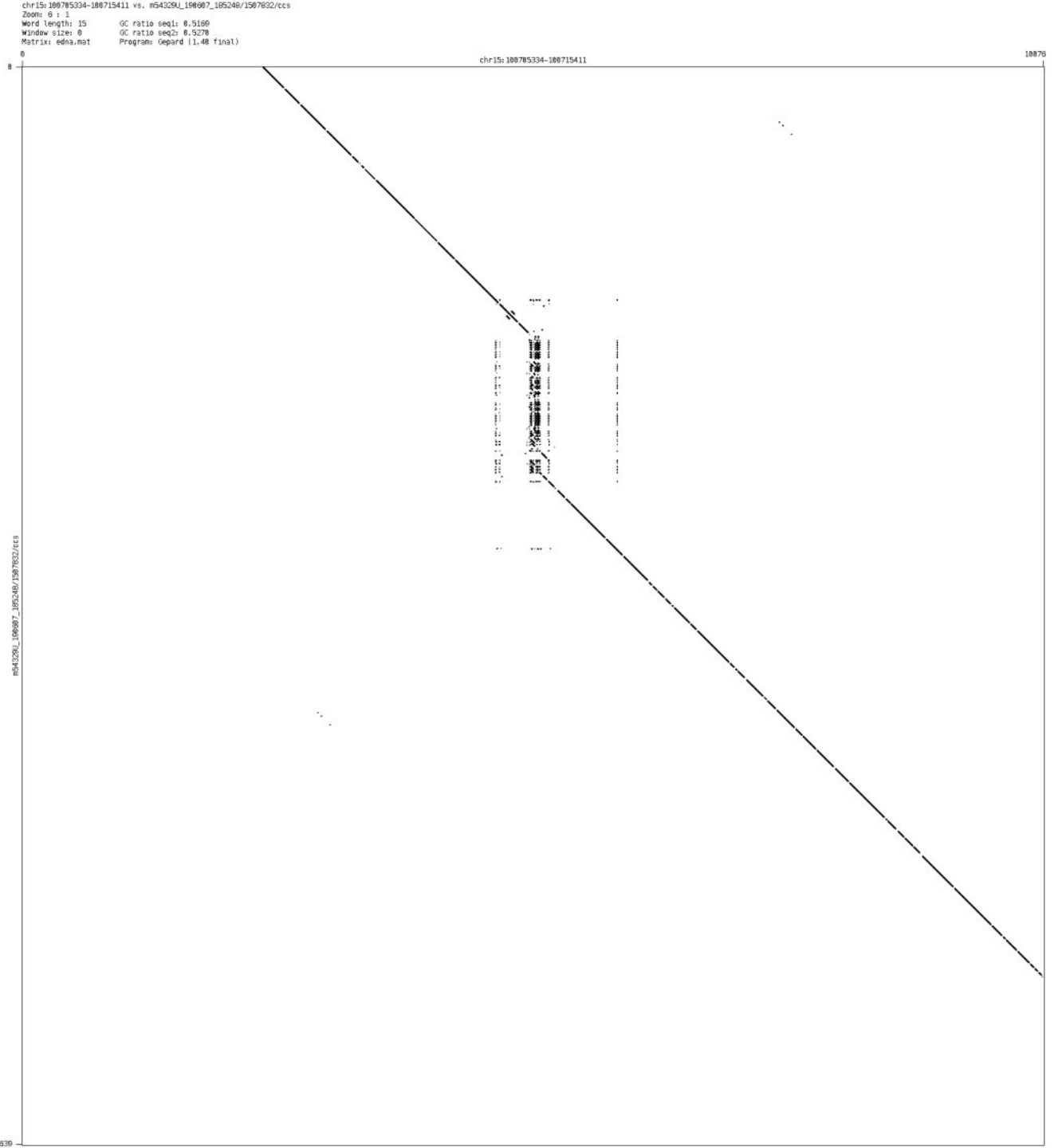
chr15:95143202-9514527 vs. m54320\_10615\_010647/10641030/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 0.3782  
Window size: 0 GC ratio seq2: 0.3751  
Matrix: edna.mat Program: Gepard (1.48 final)



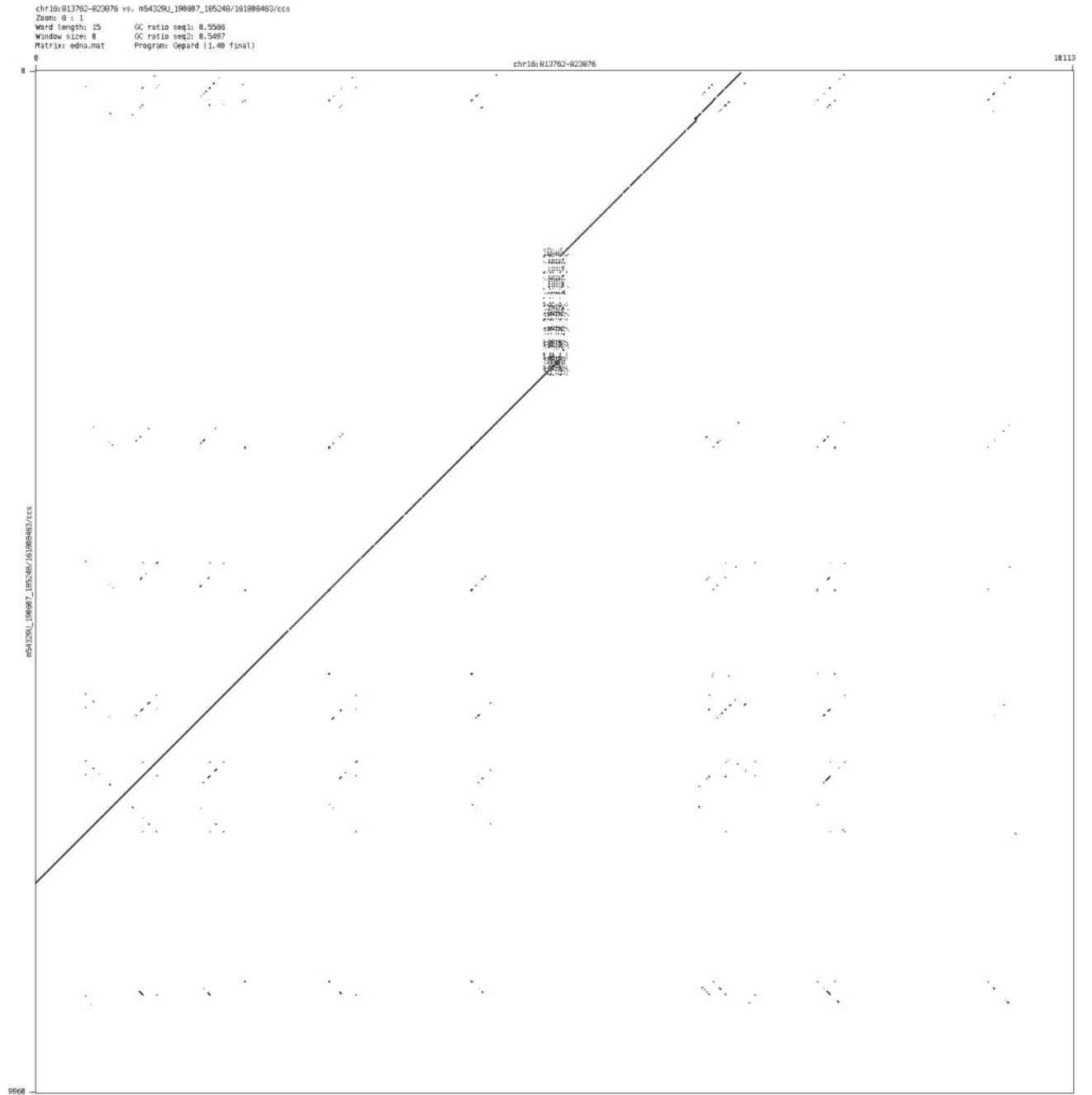
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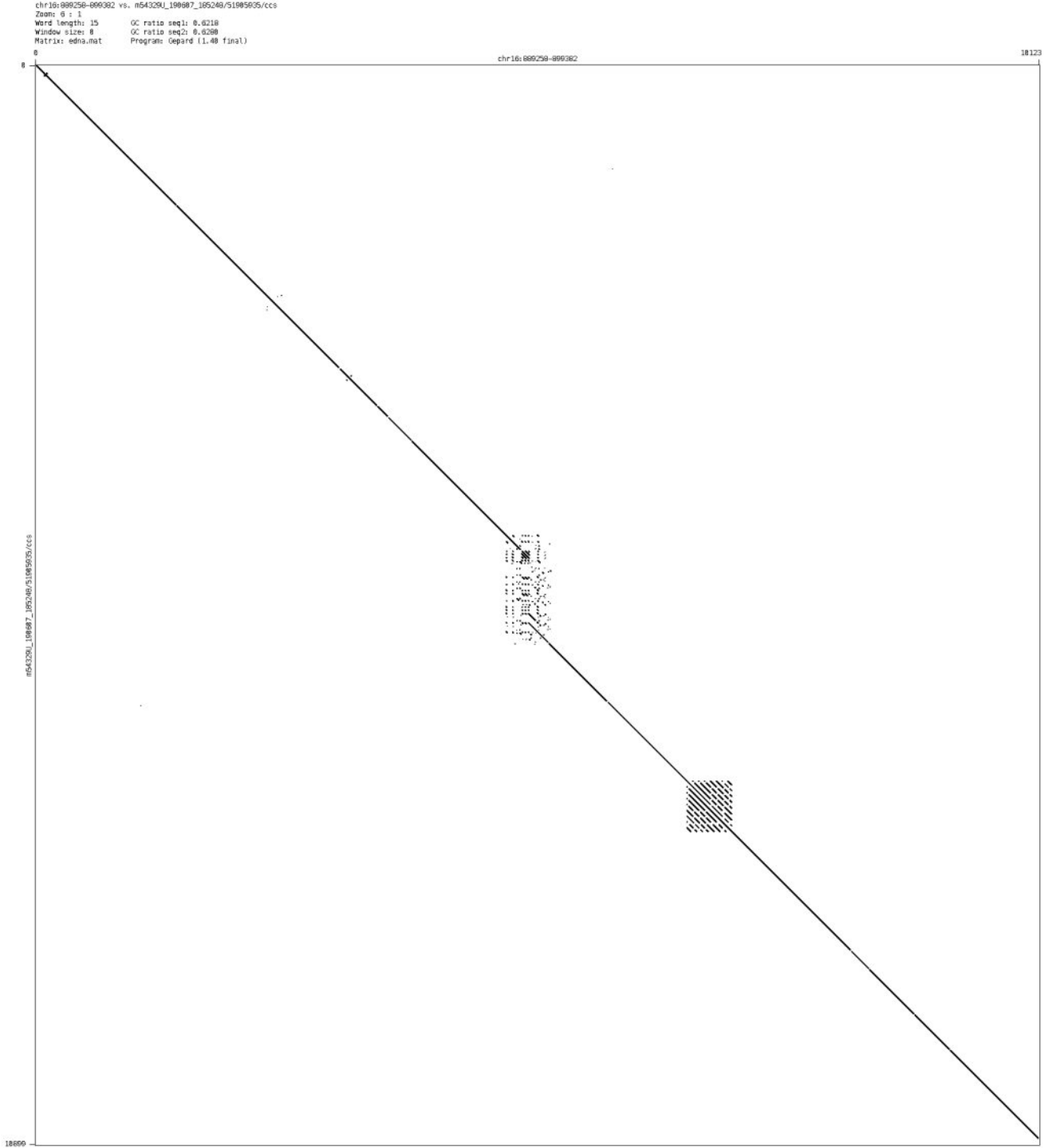
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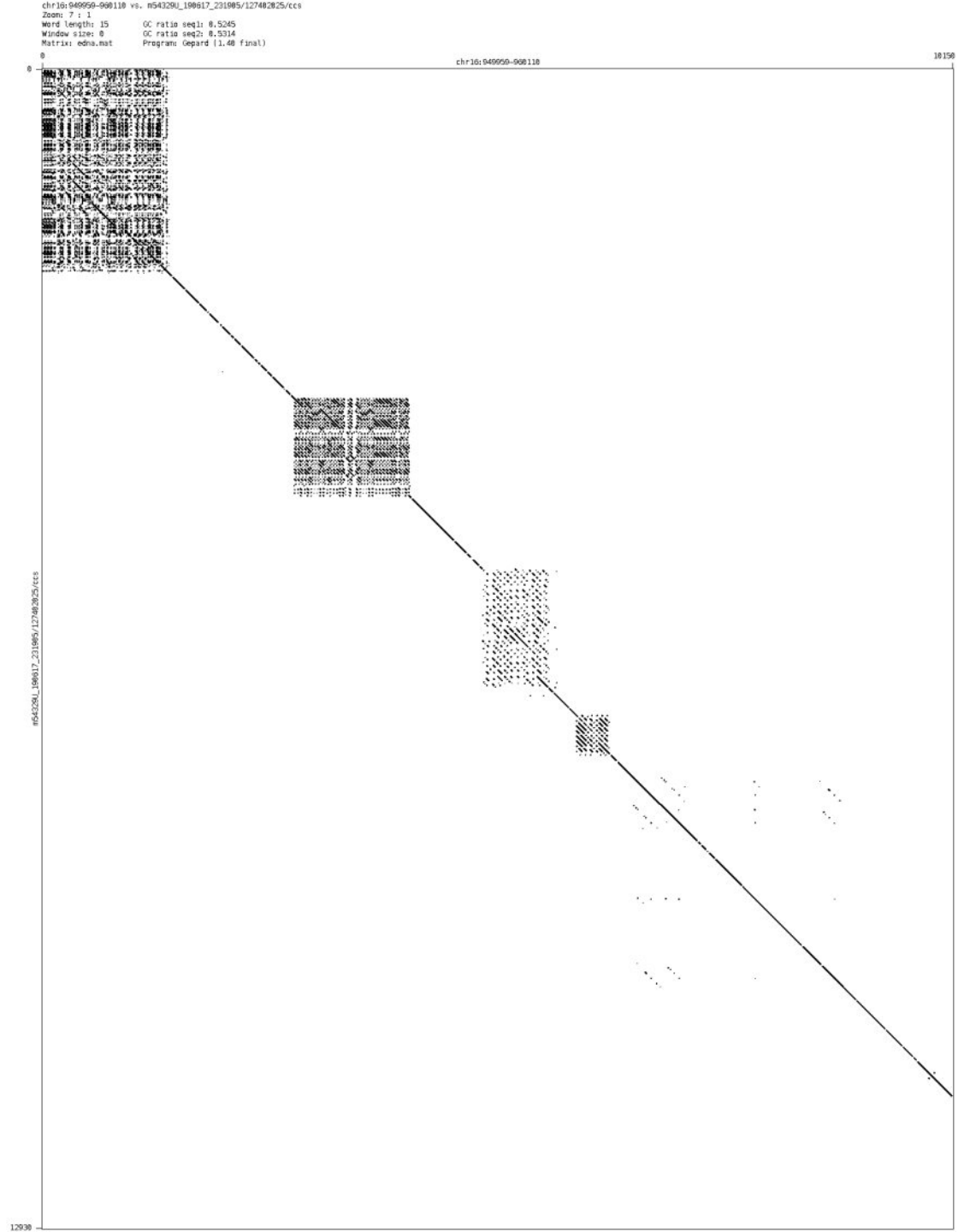
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➤ chr16\_894258\_894382

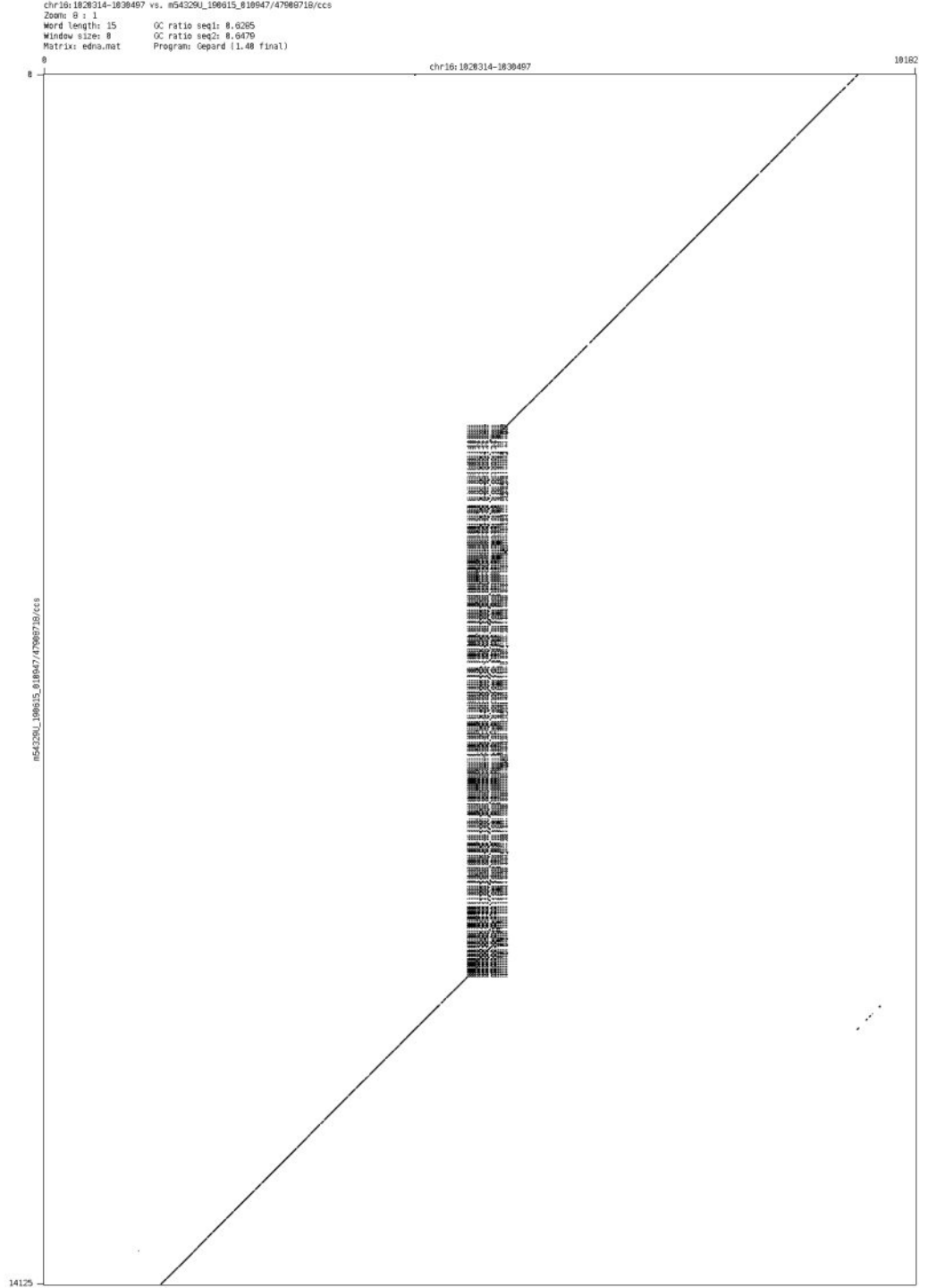


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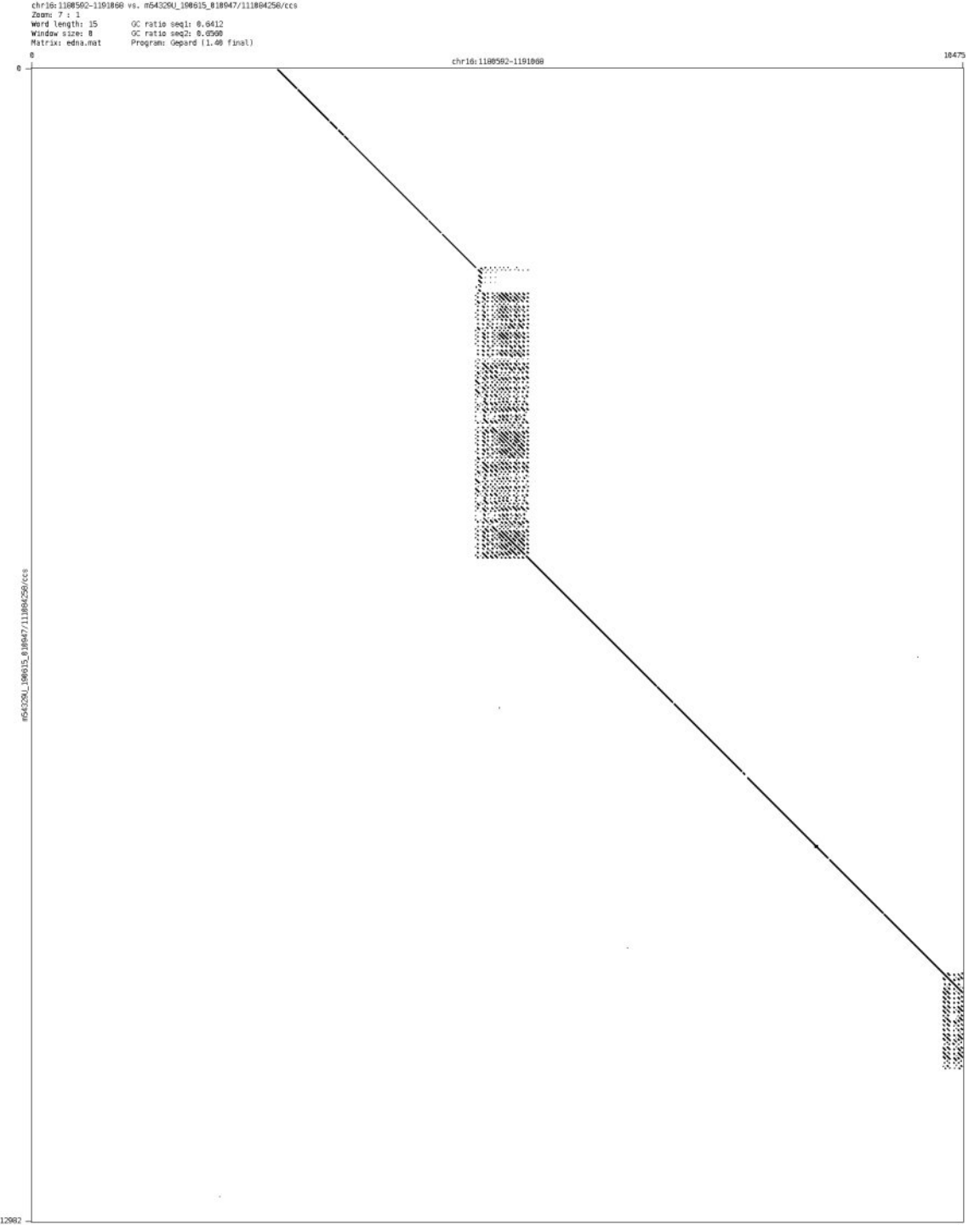




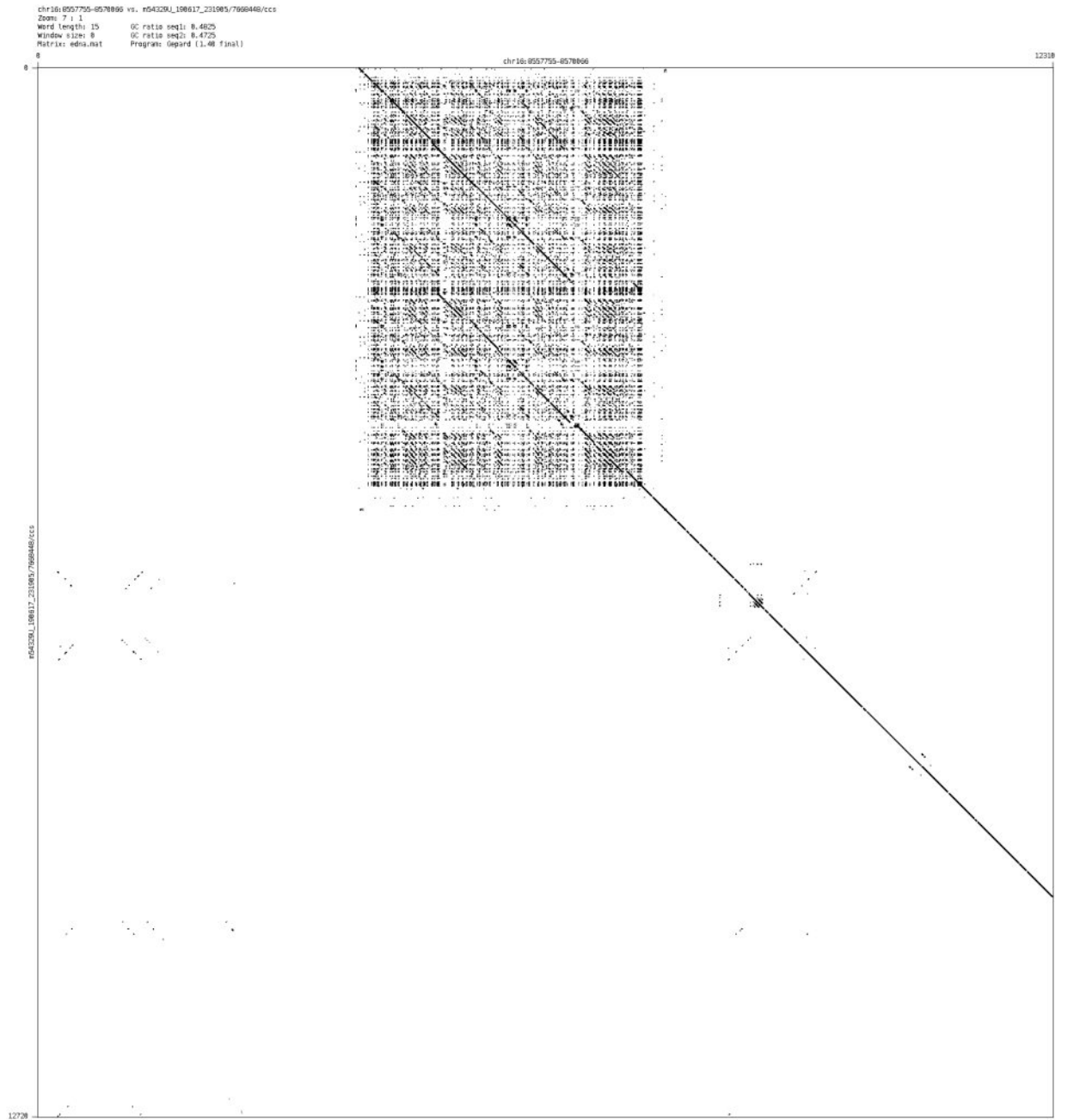
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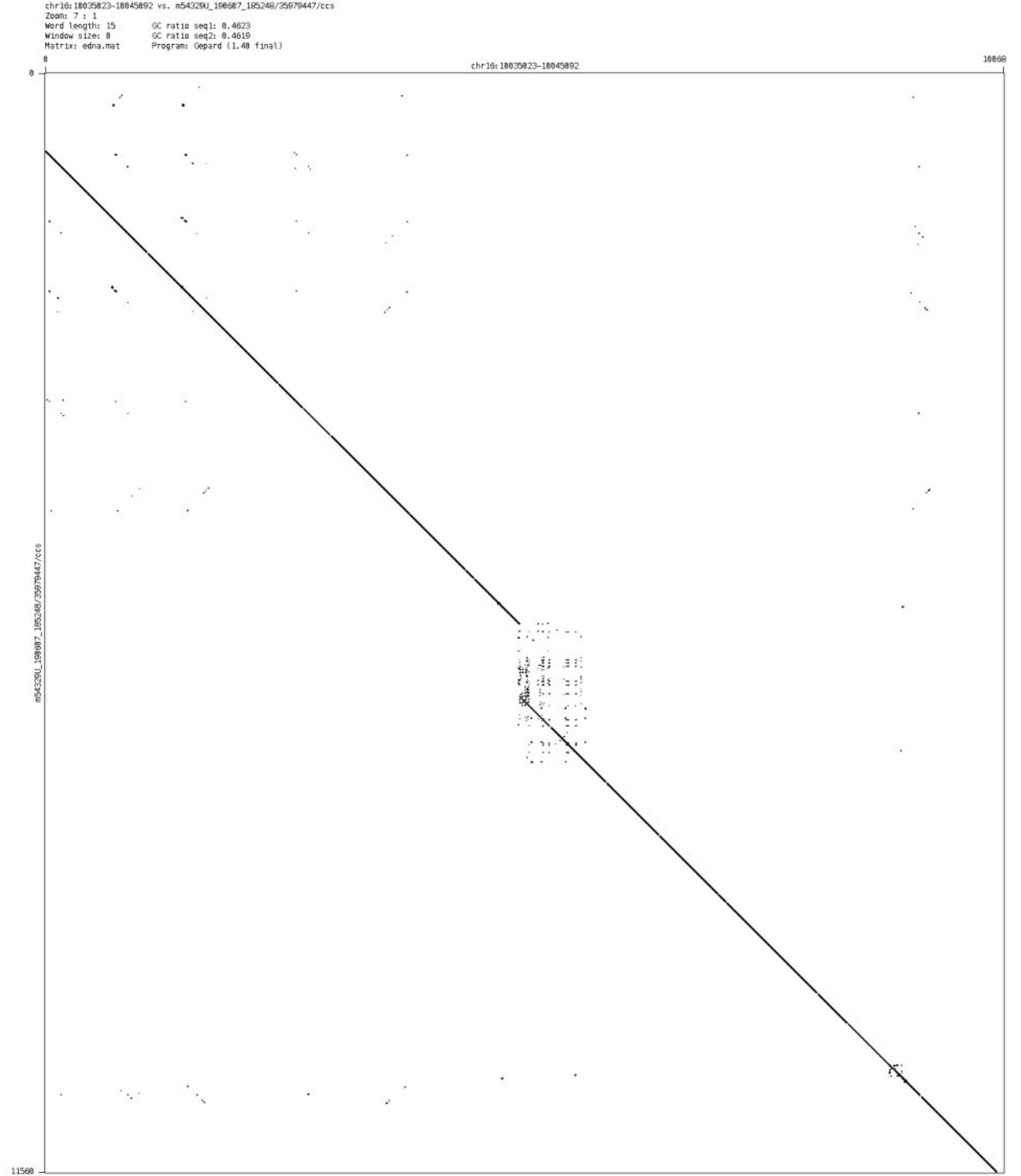
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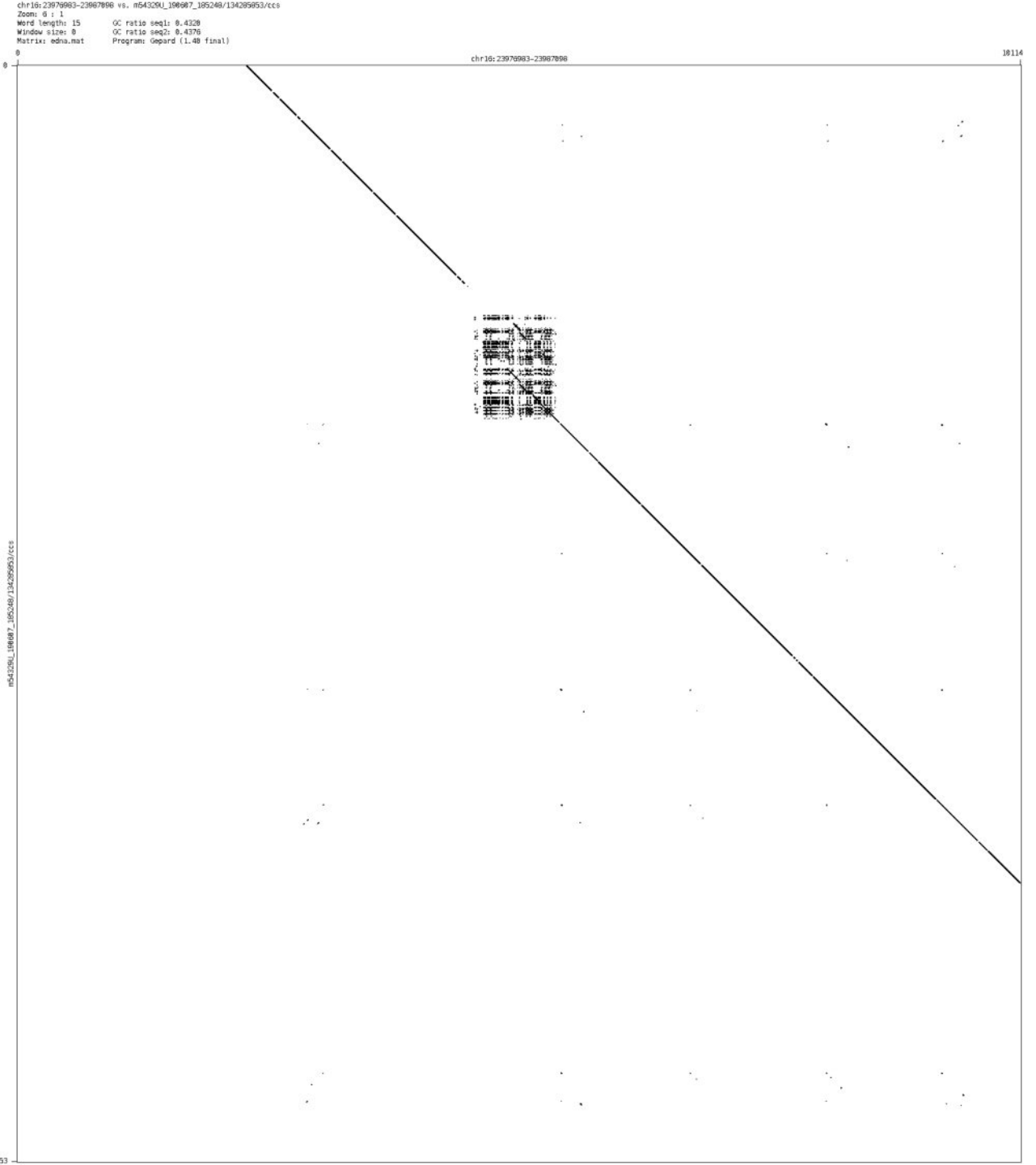
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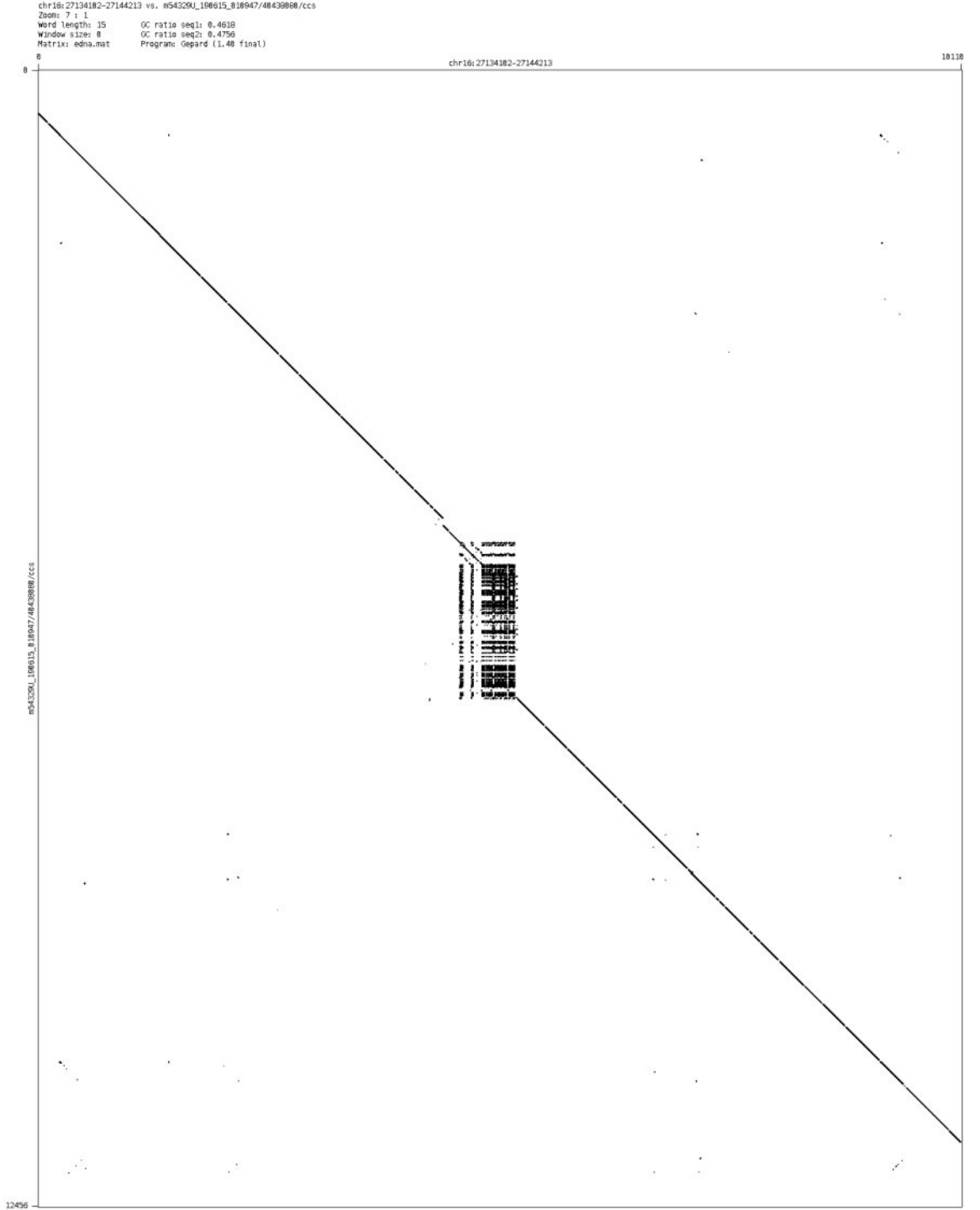
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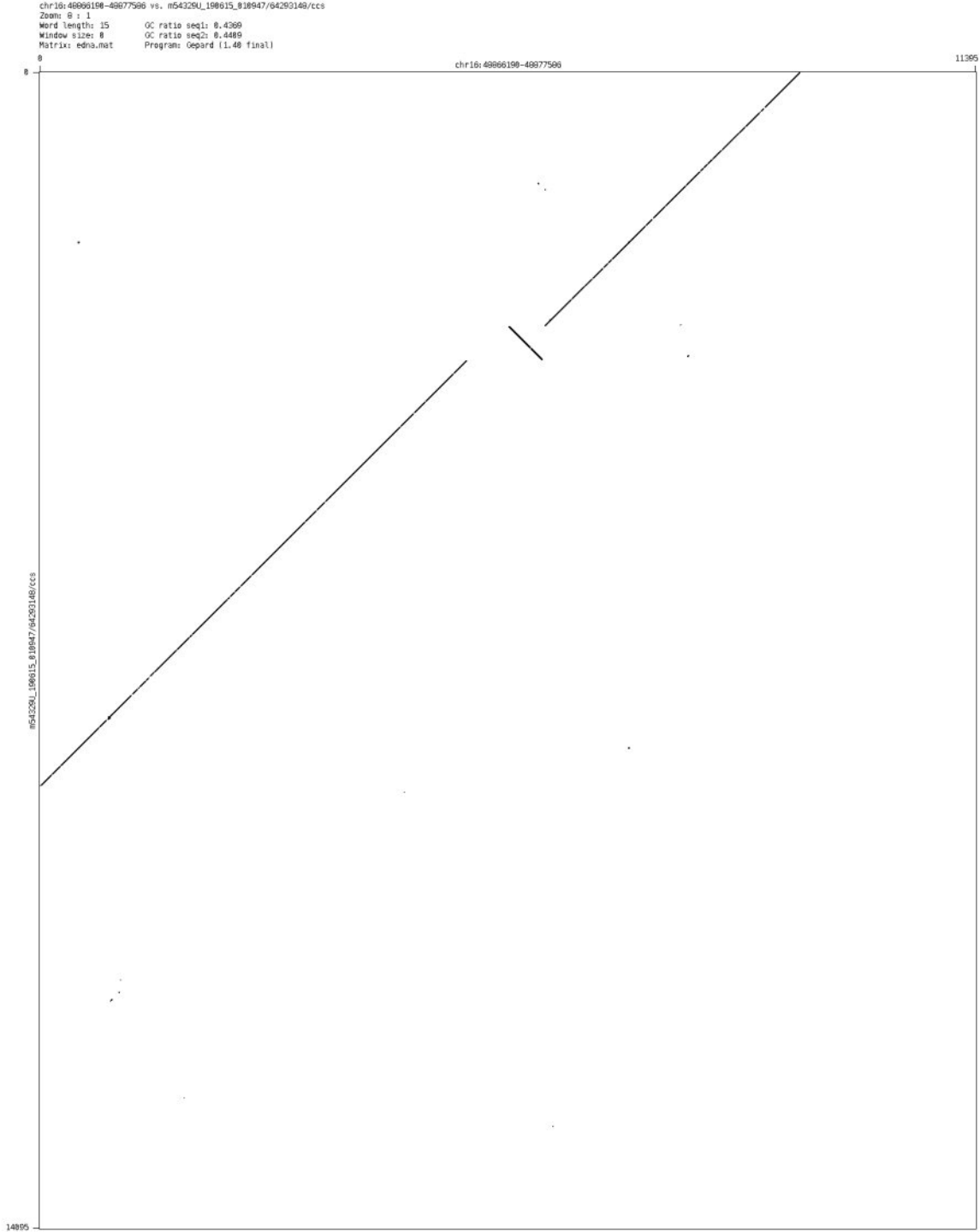
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➤ chr16\_27139102\_27139213

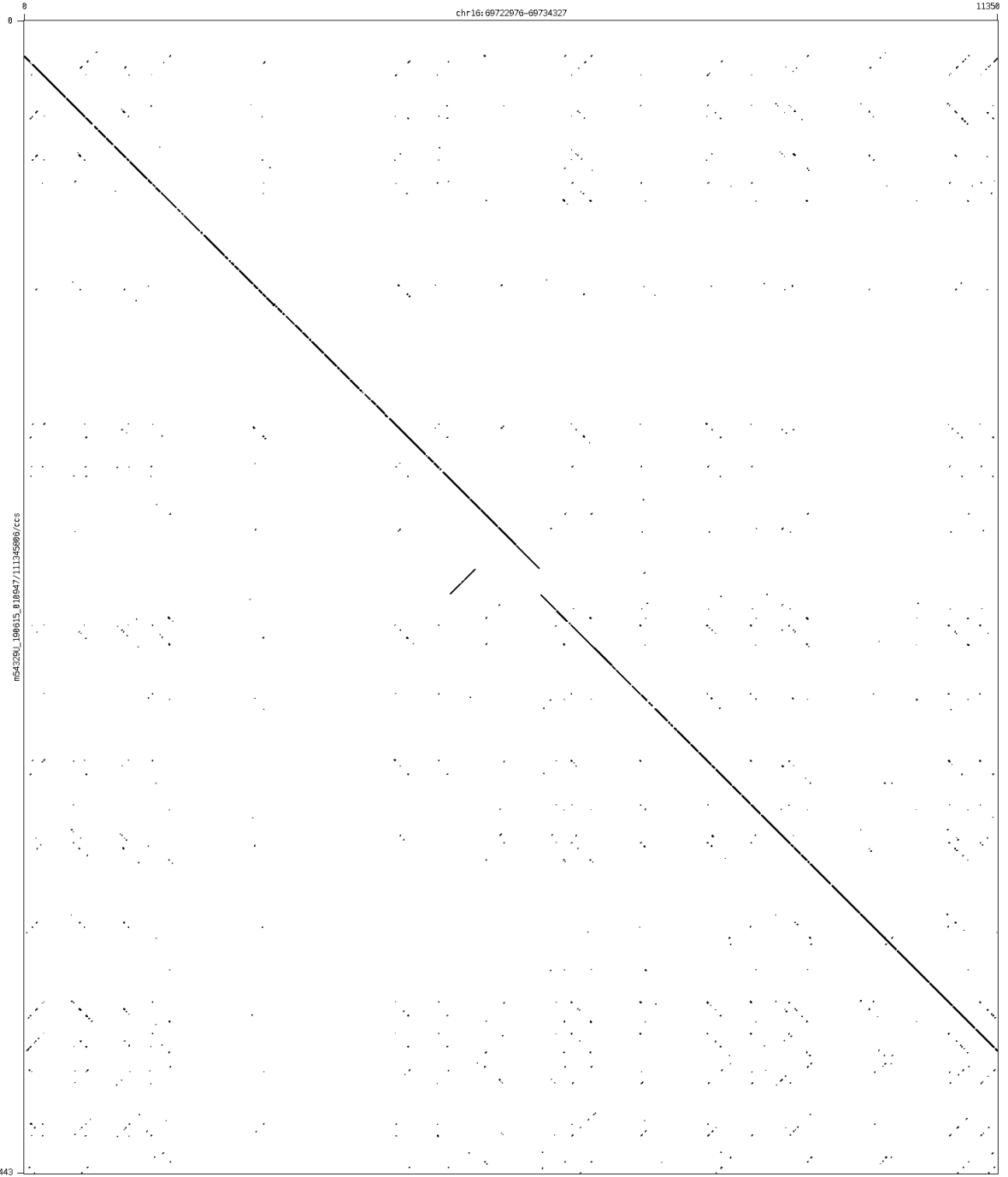


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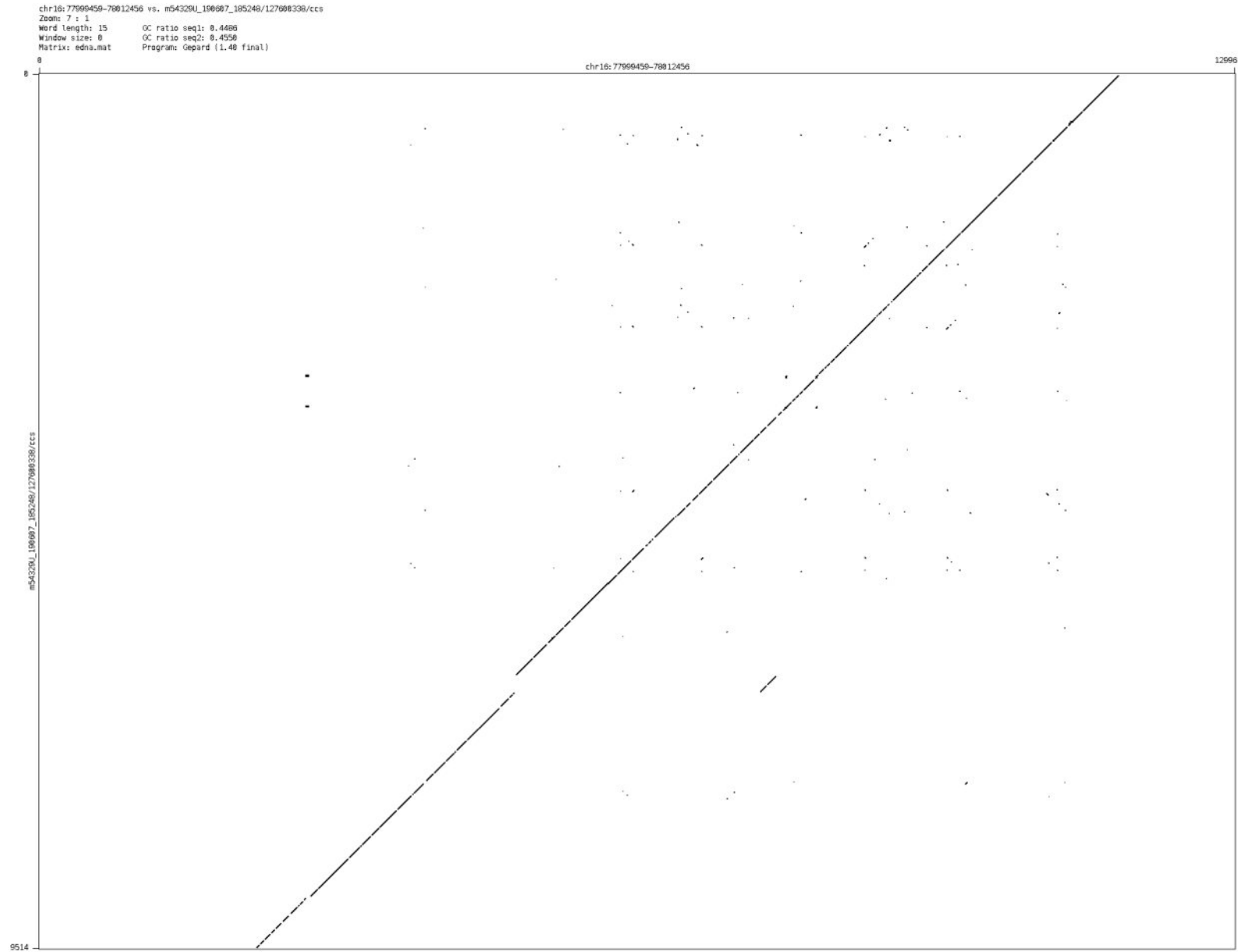
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chr16:69722976-69734327 vs. m54328U\_196615\_010847/111345686/ccs  
Zoom: 8 : 1  
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Window size: 8 GC ratio seq2: 0.4816  
Matrix: edna.mat Program: Gepard (1.40 final)

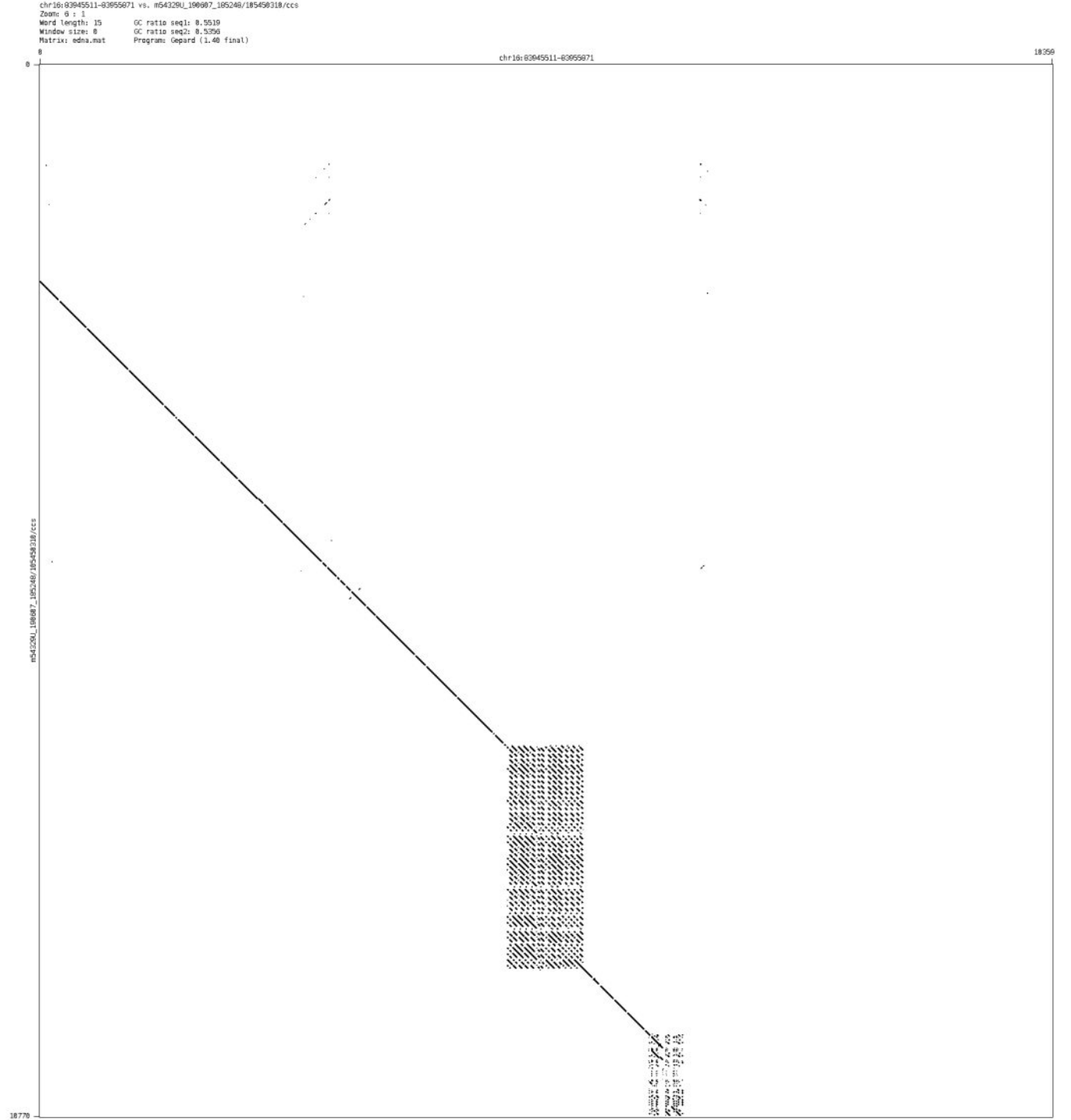




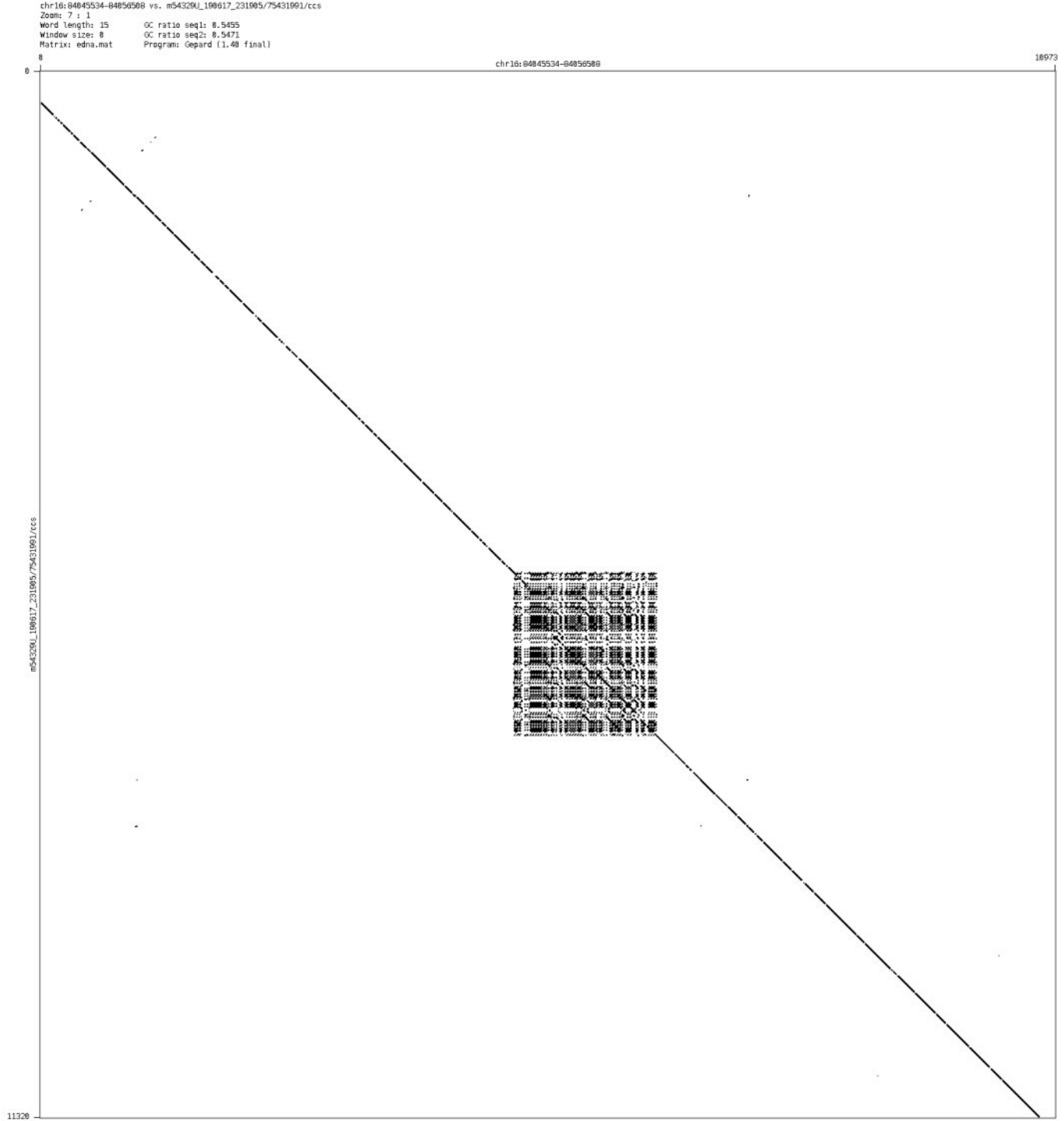
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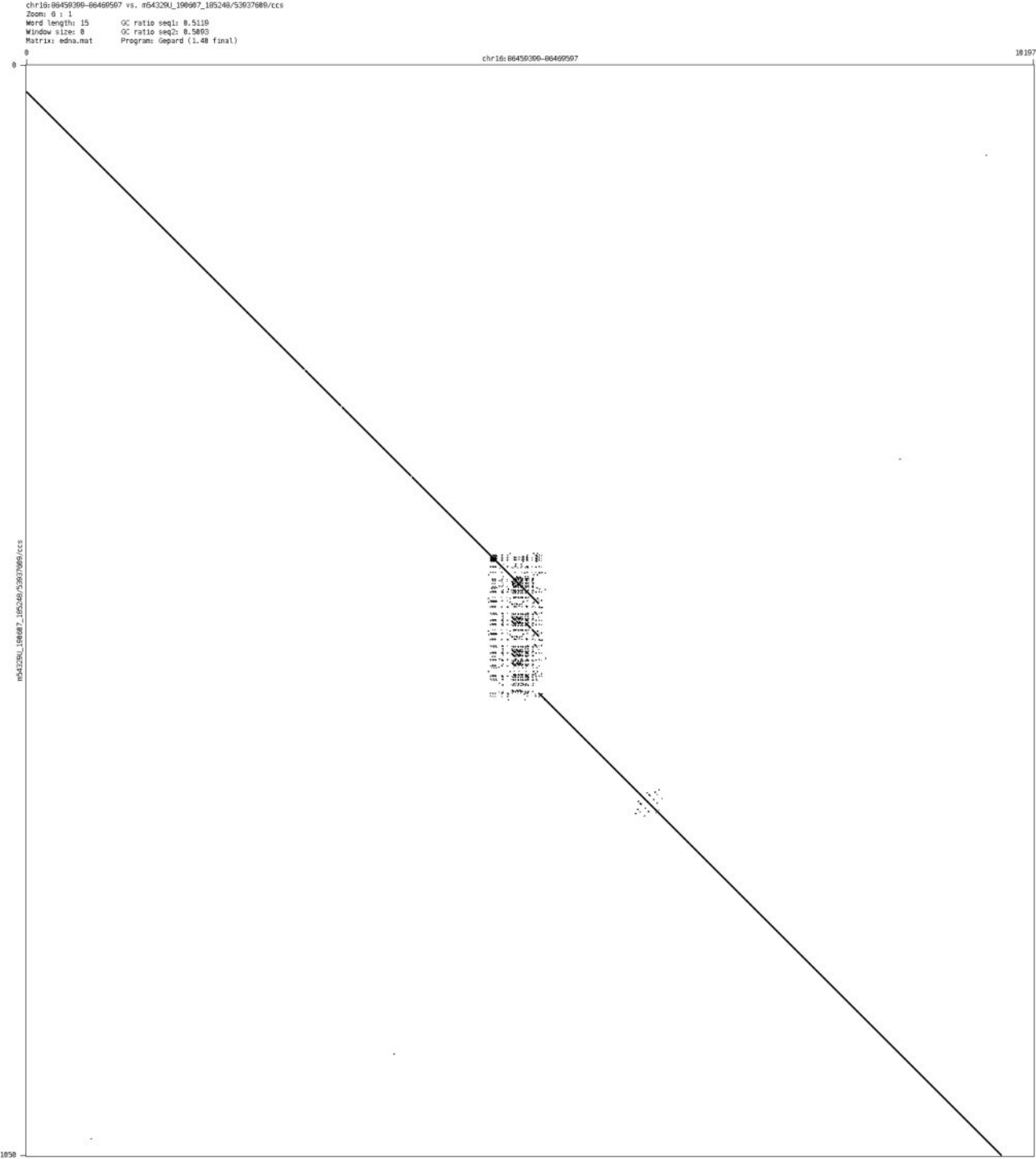
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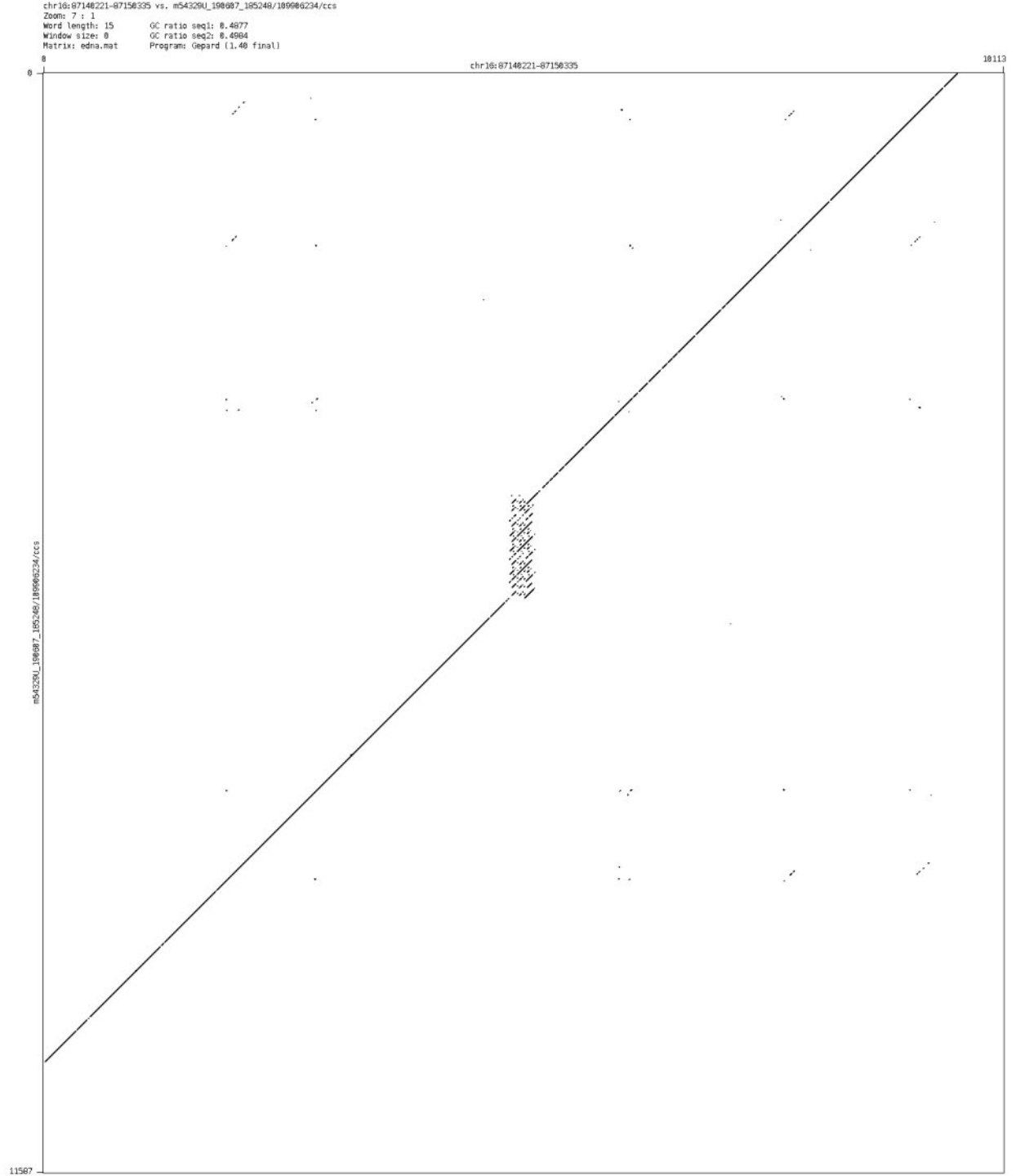
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➤ chr16\_86464399\_86464597

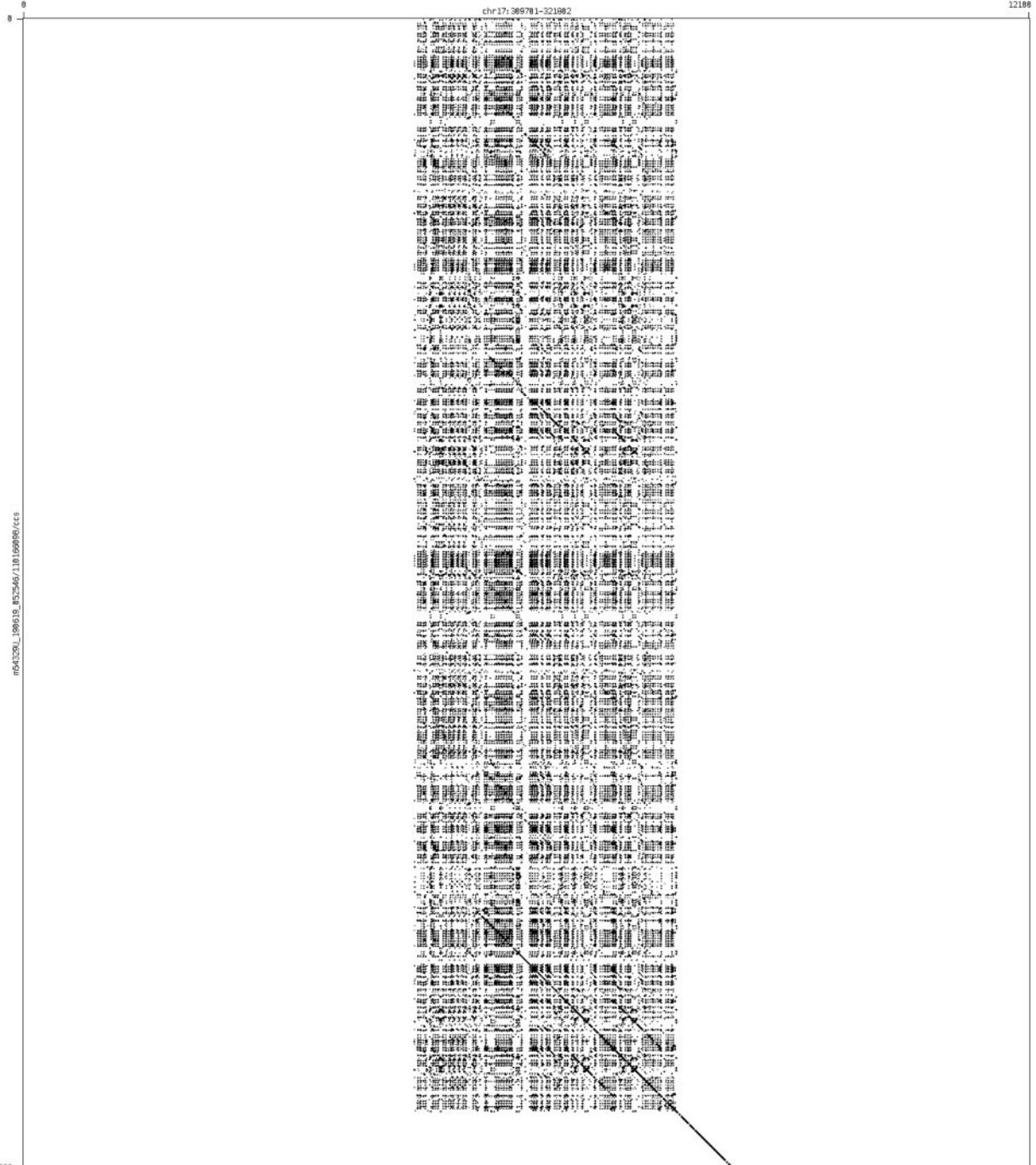


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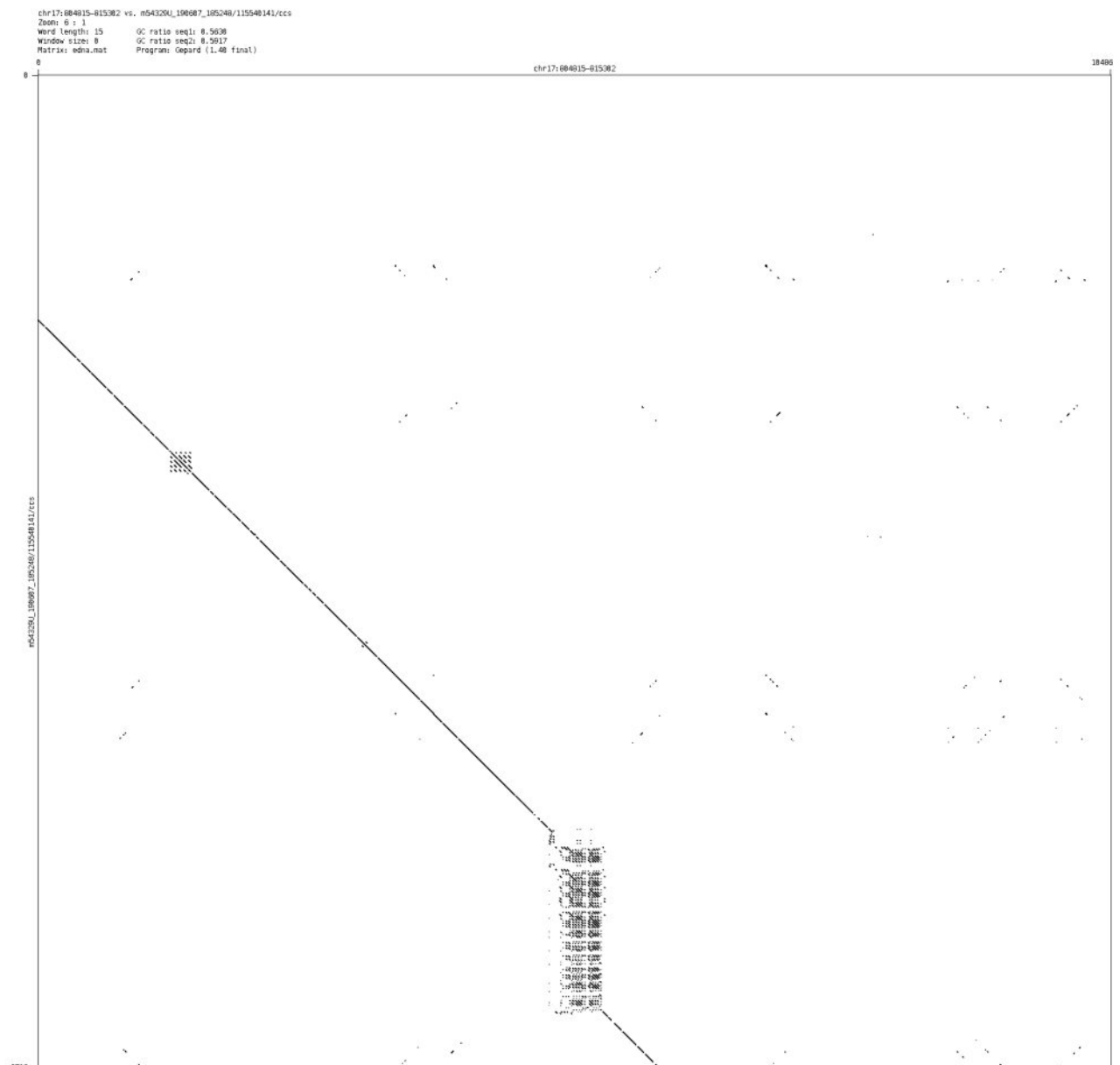


➤ chr17\_314701\_316802

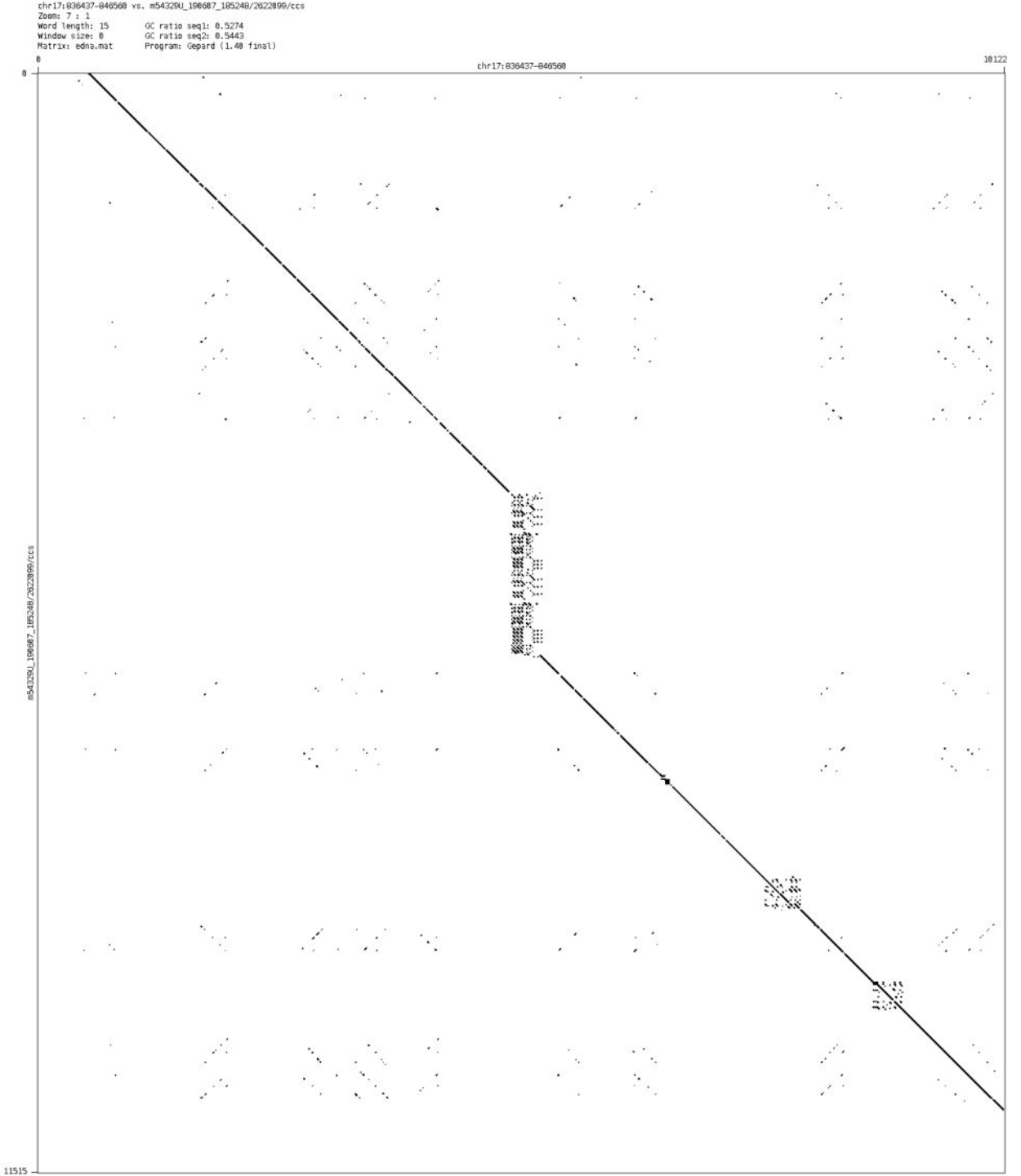
chr17:309781-321982 vs. m543291\_198619\_852546/116166896/ctcs  
Zoom: 8 : 1 GC ratio seq1: 0.5571  
Word length: 15 GC ratio seq2: 0.5675  
Window size: 8  
Matrix: edna.net Program: Gepard (1.40 final)



➤ chr17\_809815\_810302

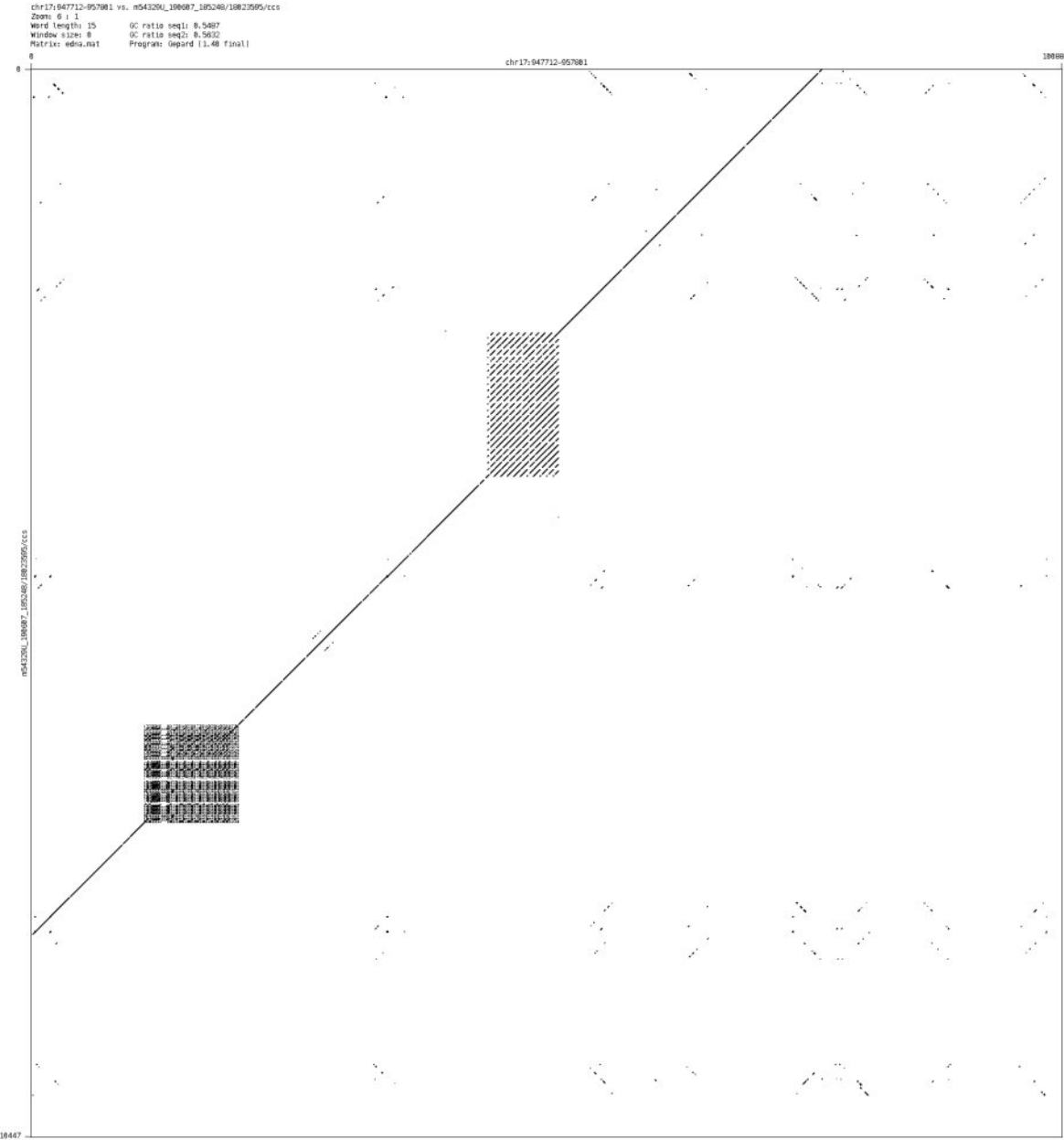


➤ chr17\_841437\_841560

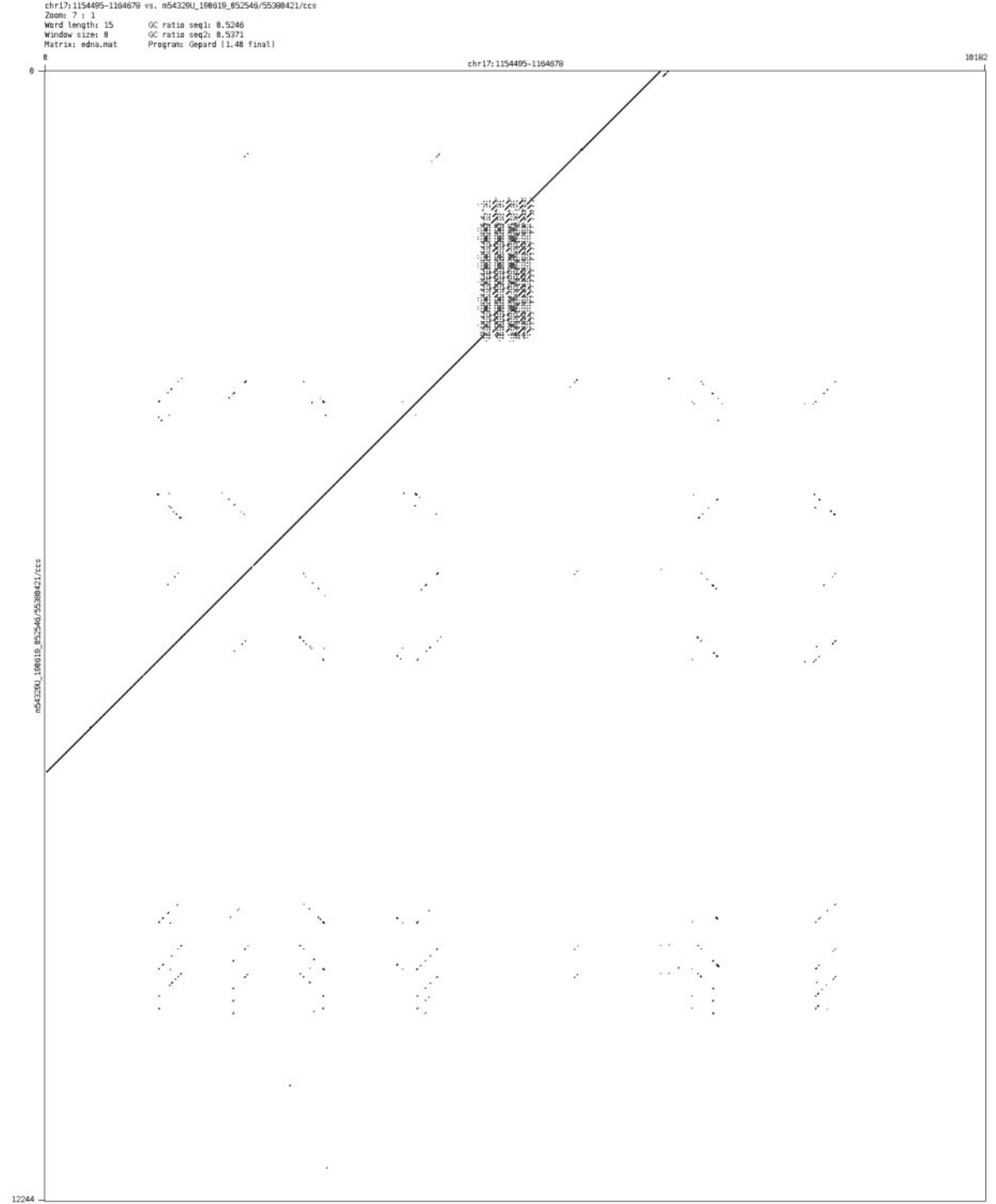




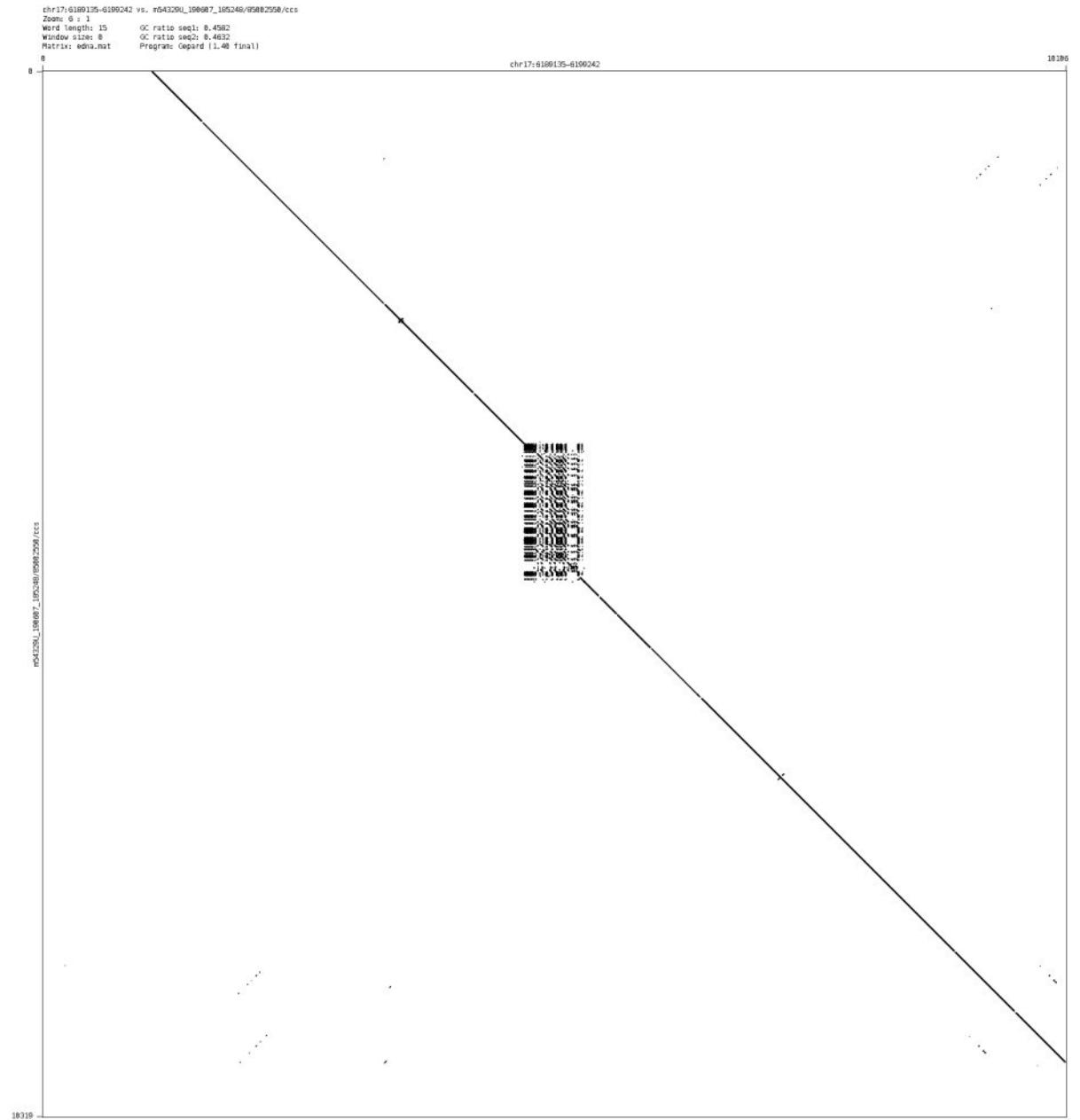
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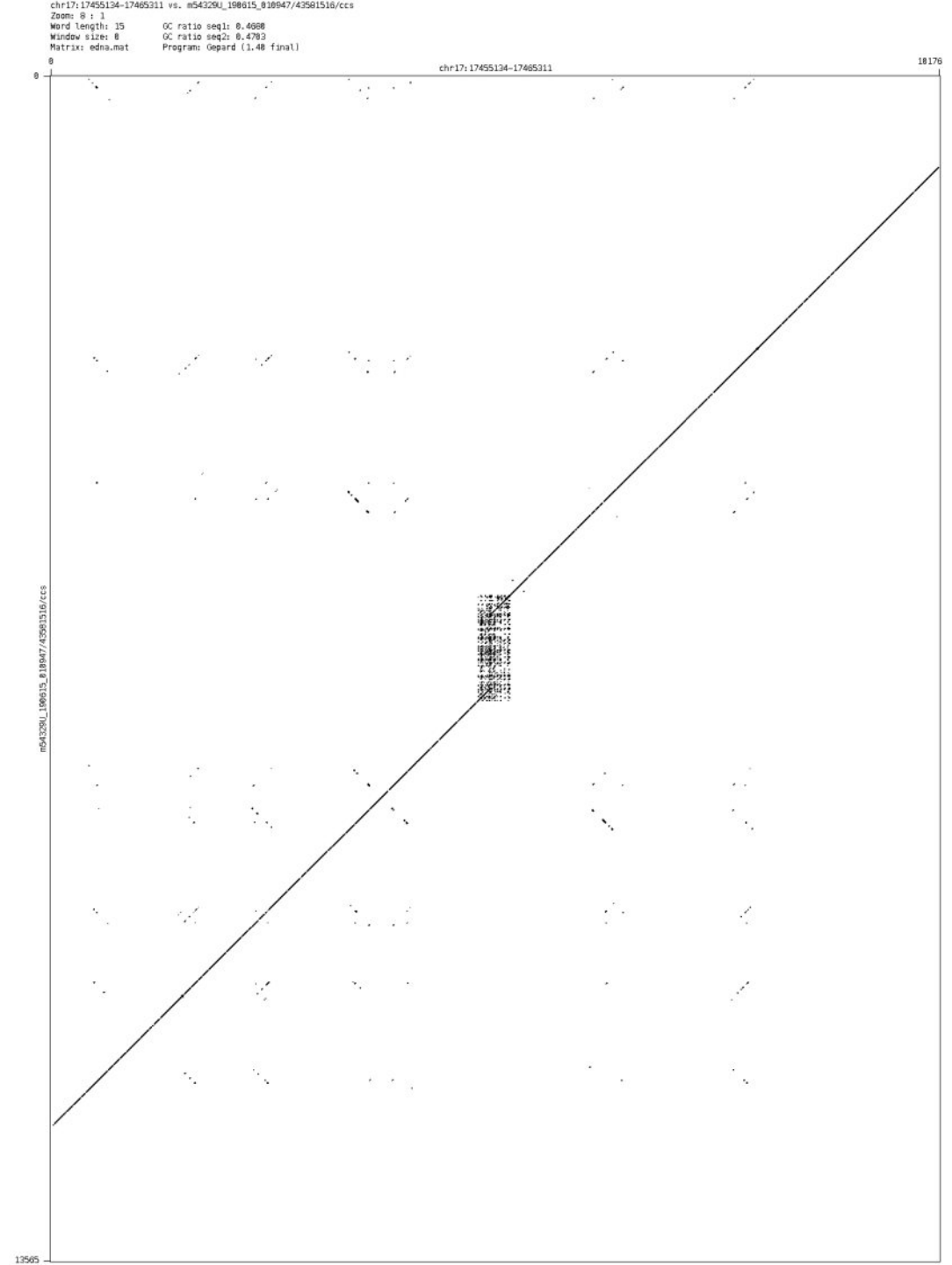
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➤ chr17\_6194135\_6194242

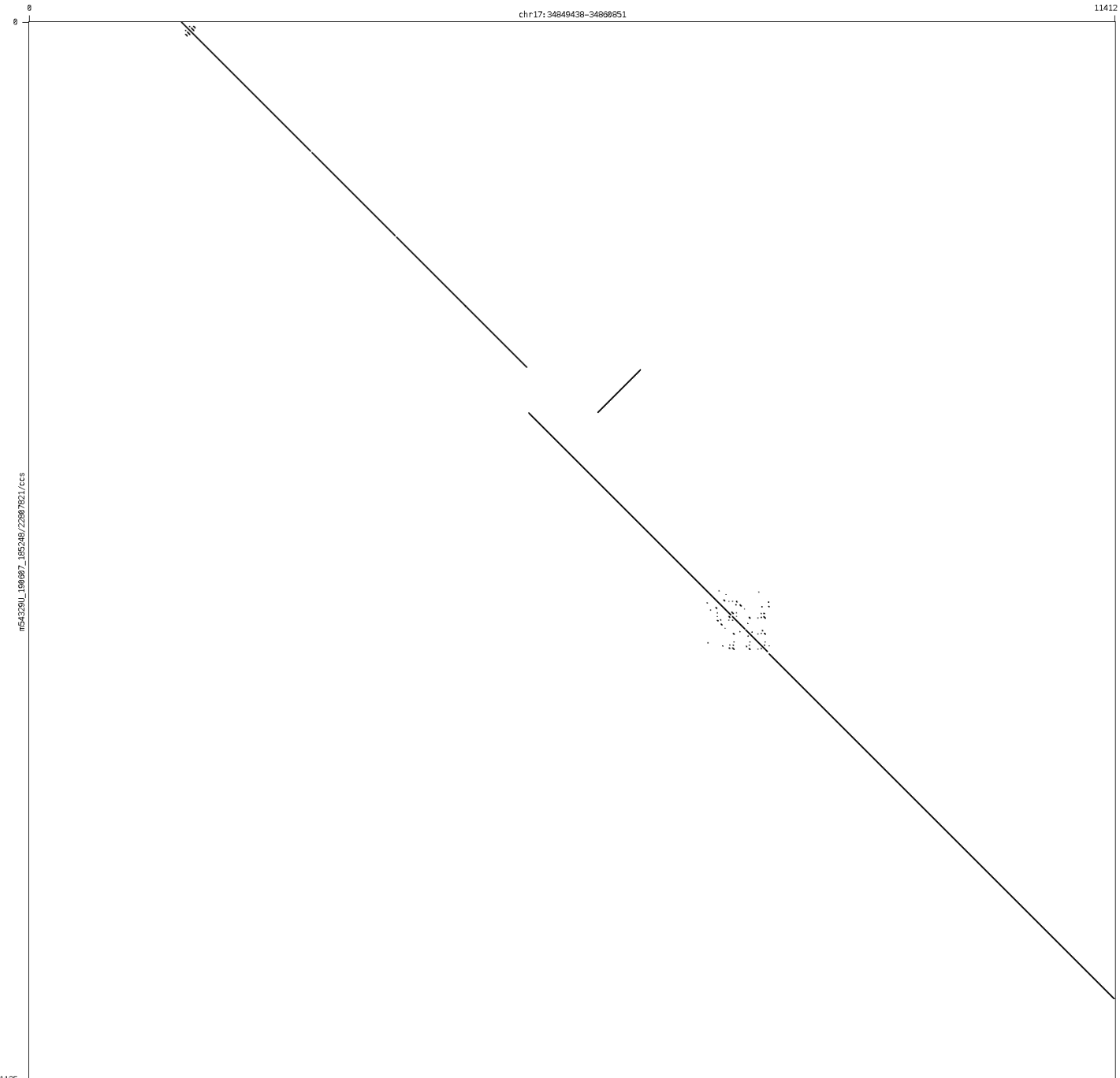


➤ chr17\_17460134\_17460311

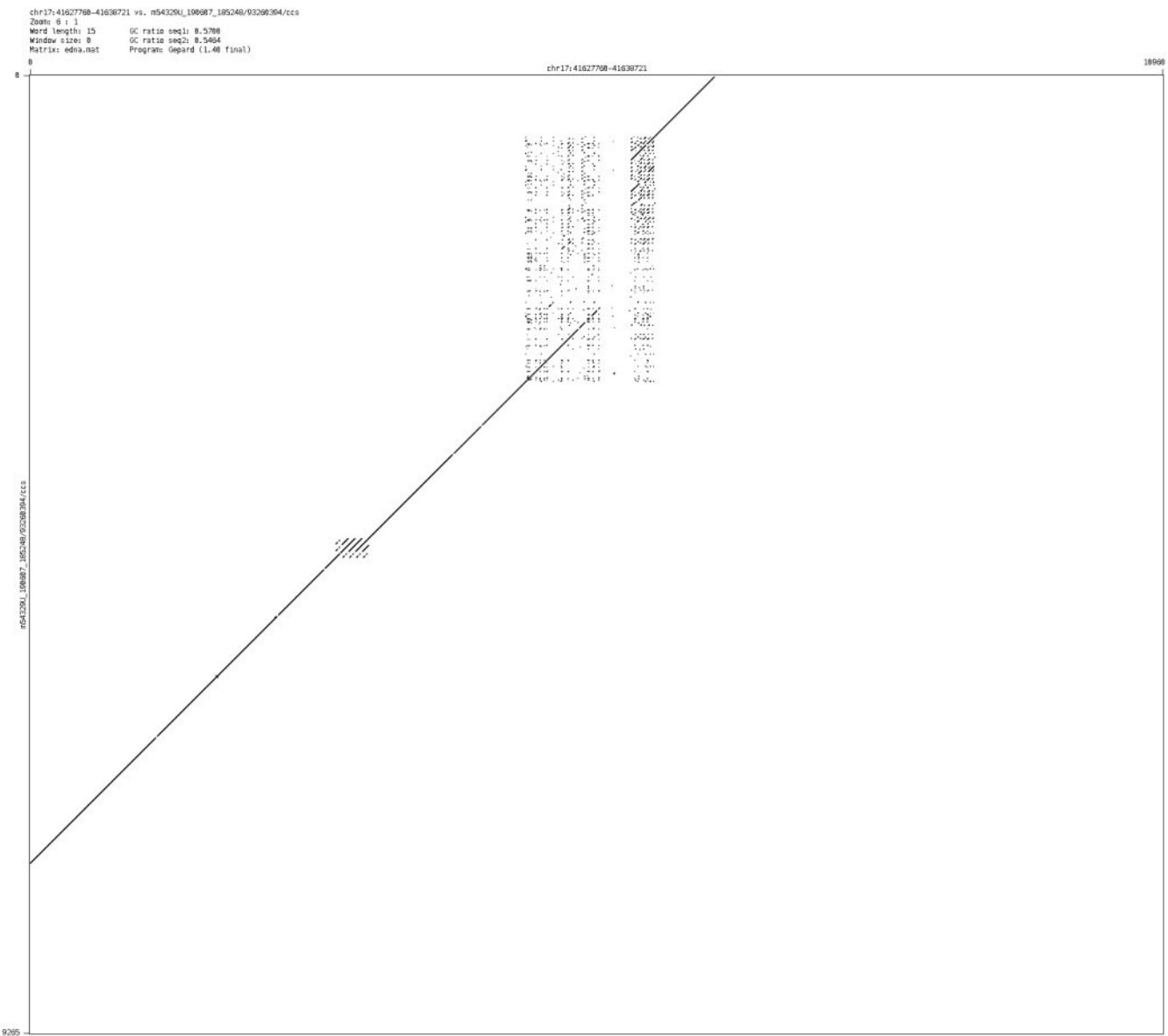


➤ chr17\_34854438\_34855851

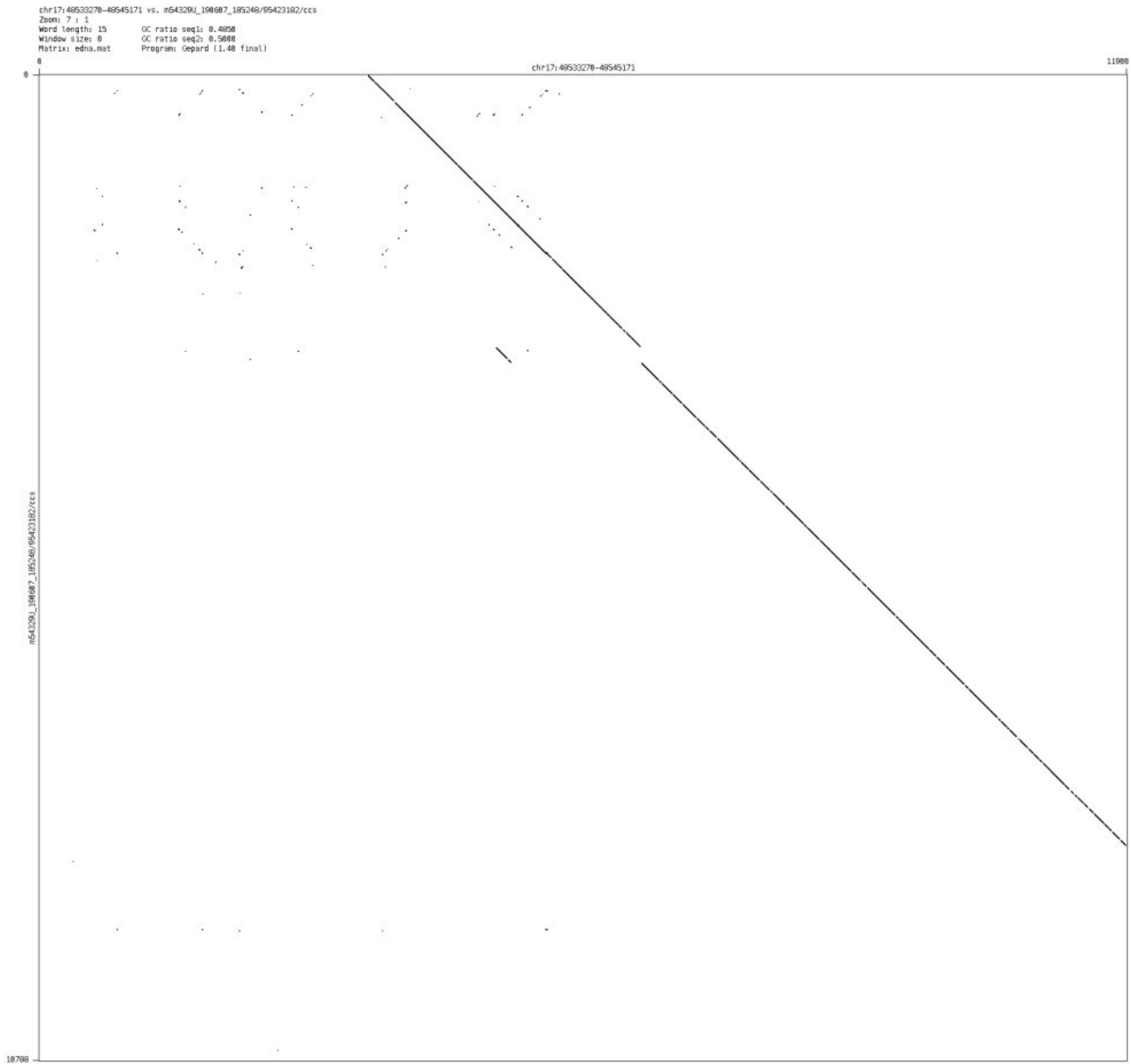
chr17:34849438-34860851 vs. m54329U\_190607\_185248/22807821/ccs  
Zoom: 7 : 1  
Word length: 15 GC ratio seq1: 0.4924  
Window size: 0 GC ratio seq2: 0.4996  
Matrix: edna.mat Program: Gepard (1.40 final)



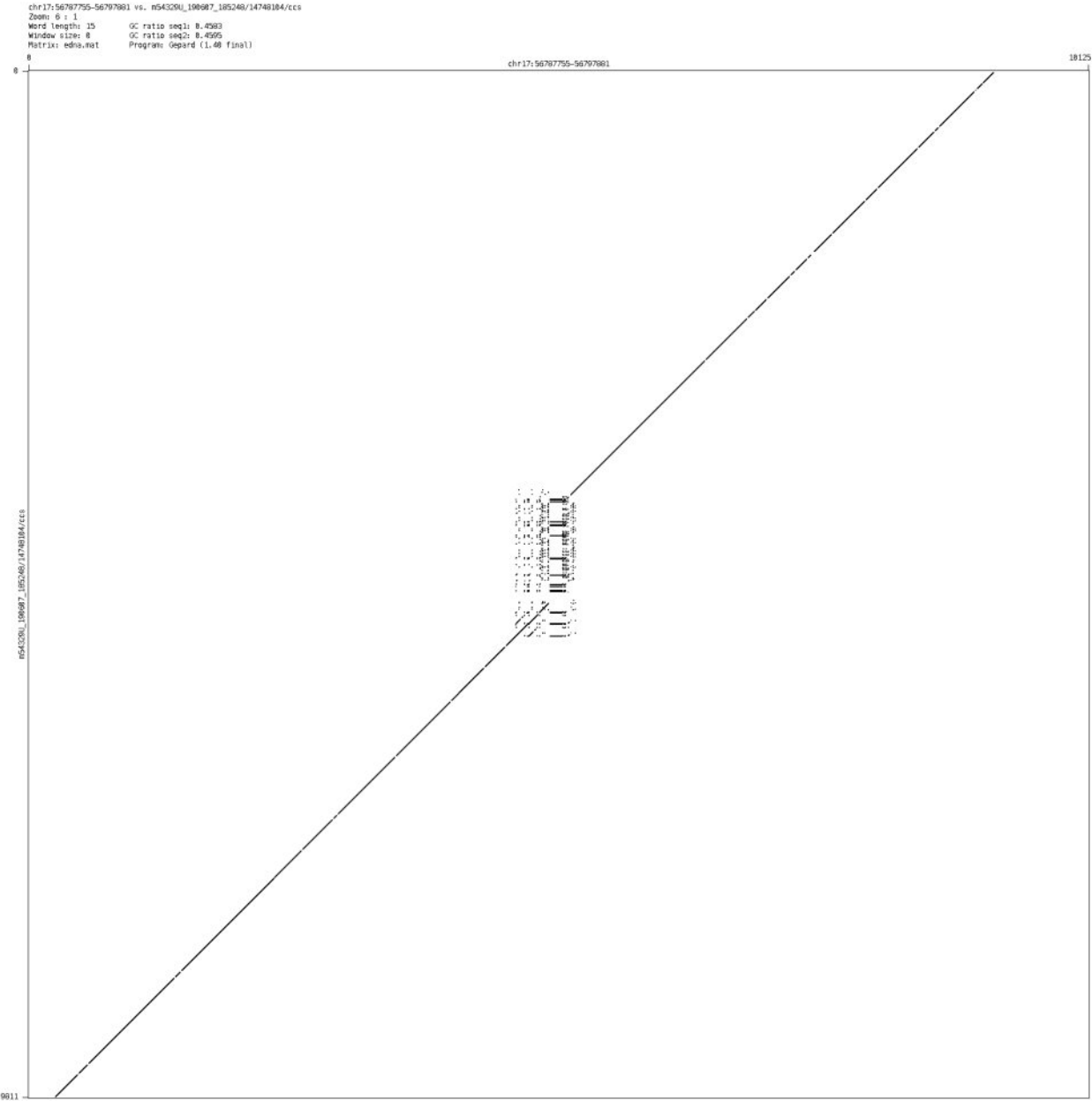
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➤ chr17\_48538270\_48540171

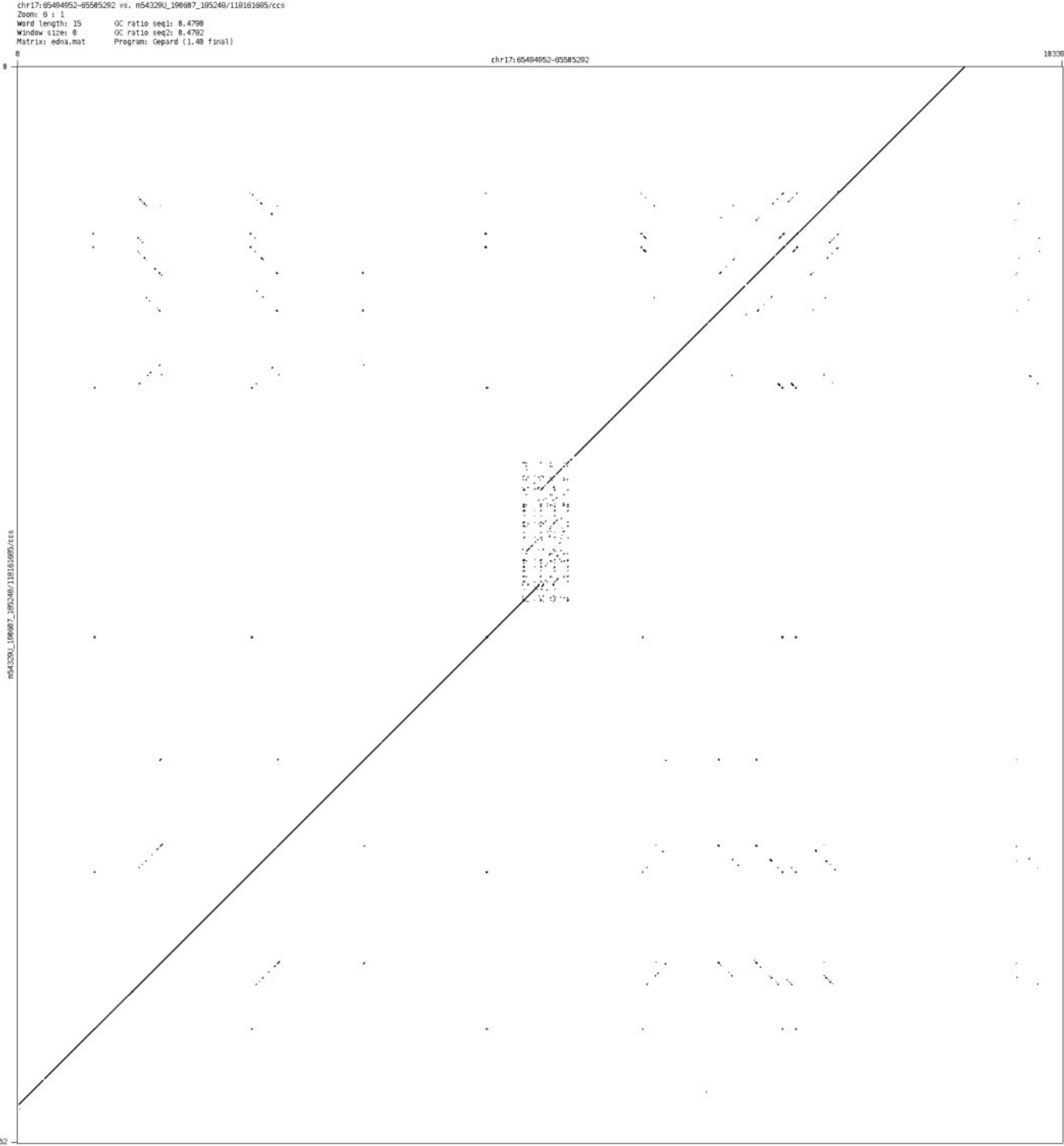


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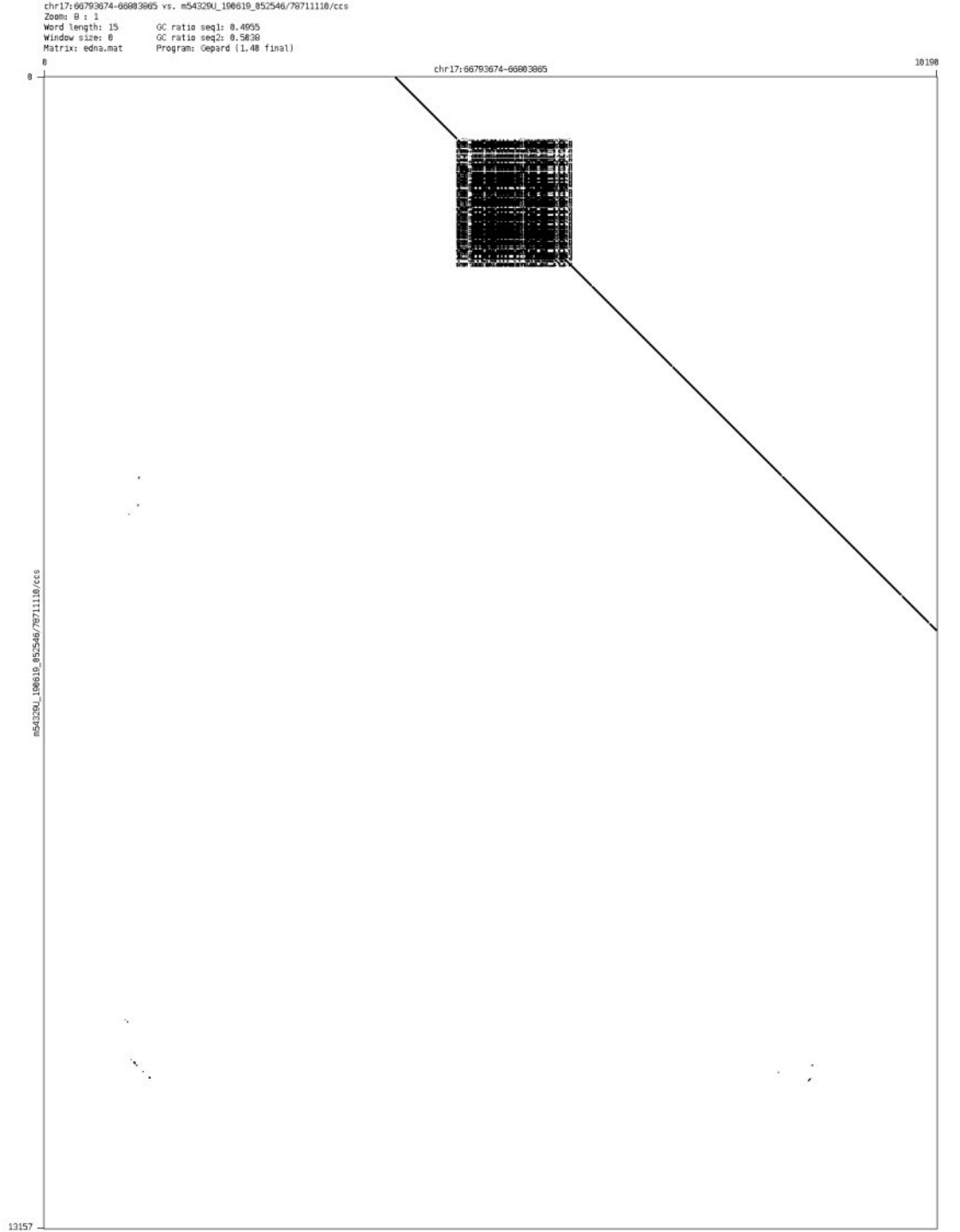




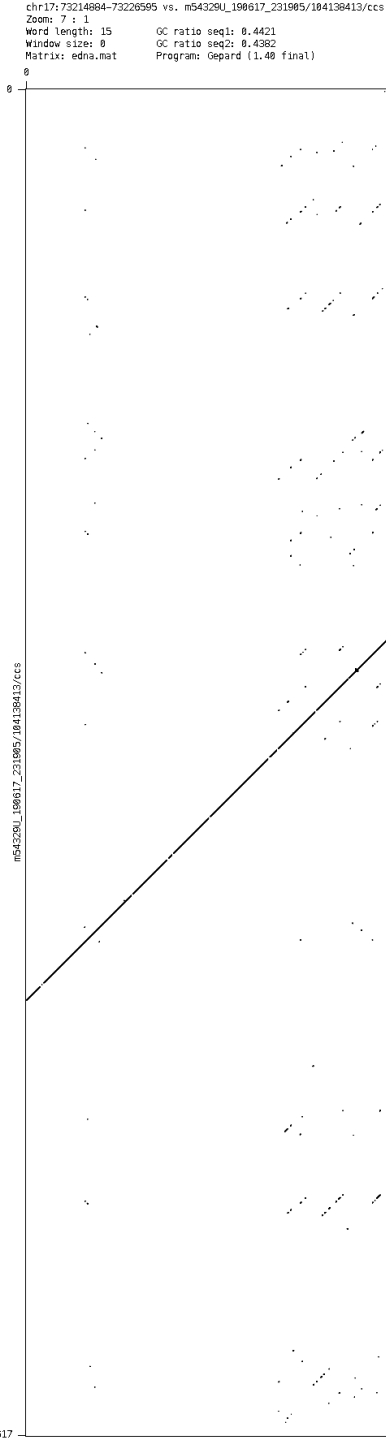
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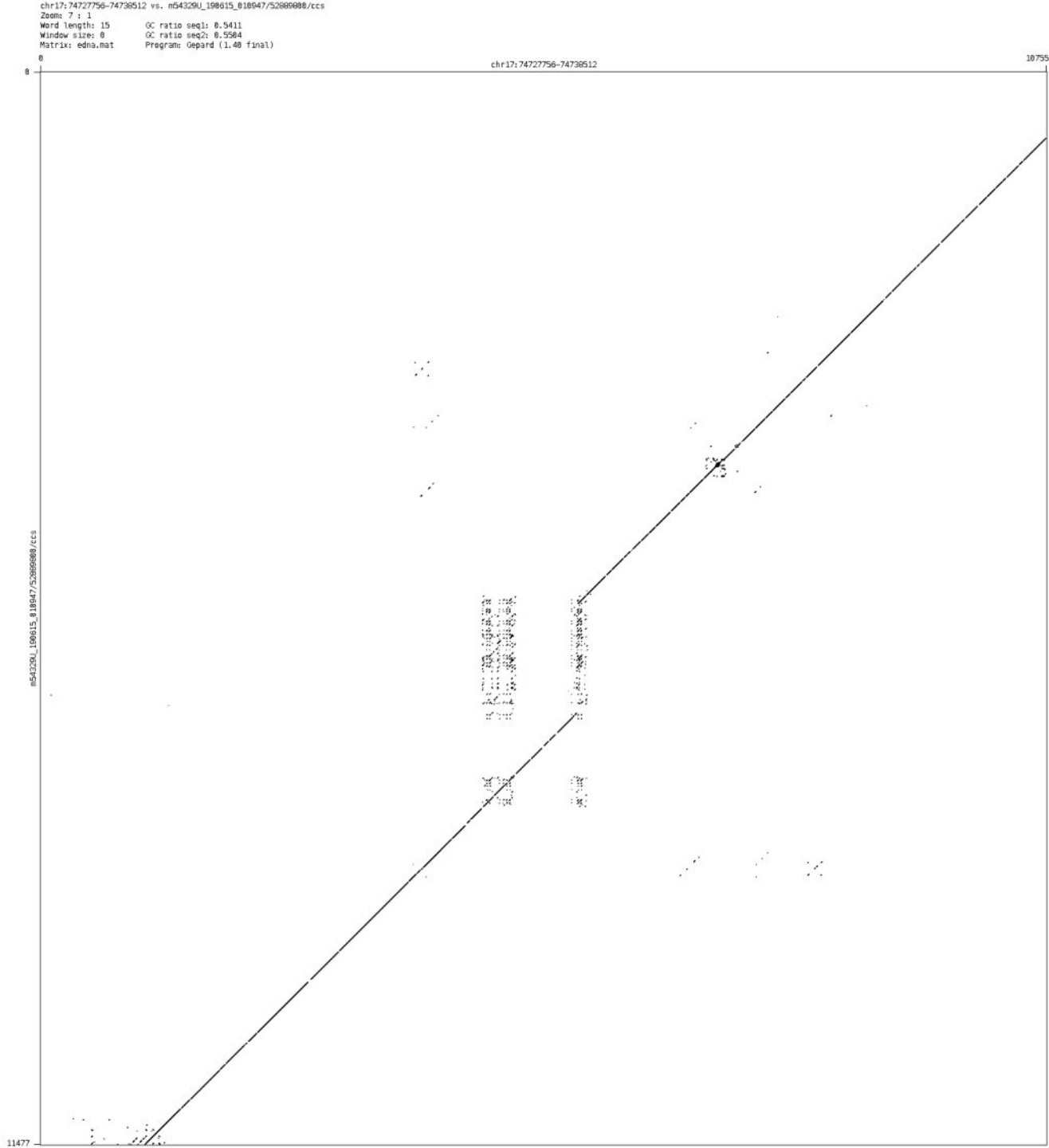
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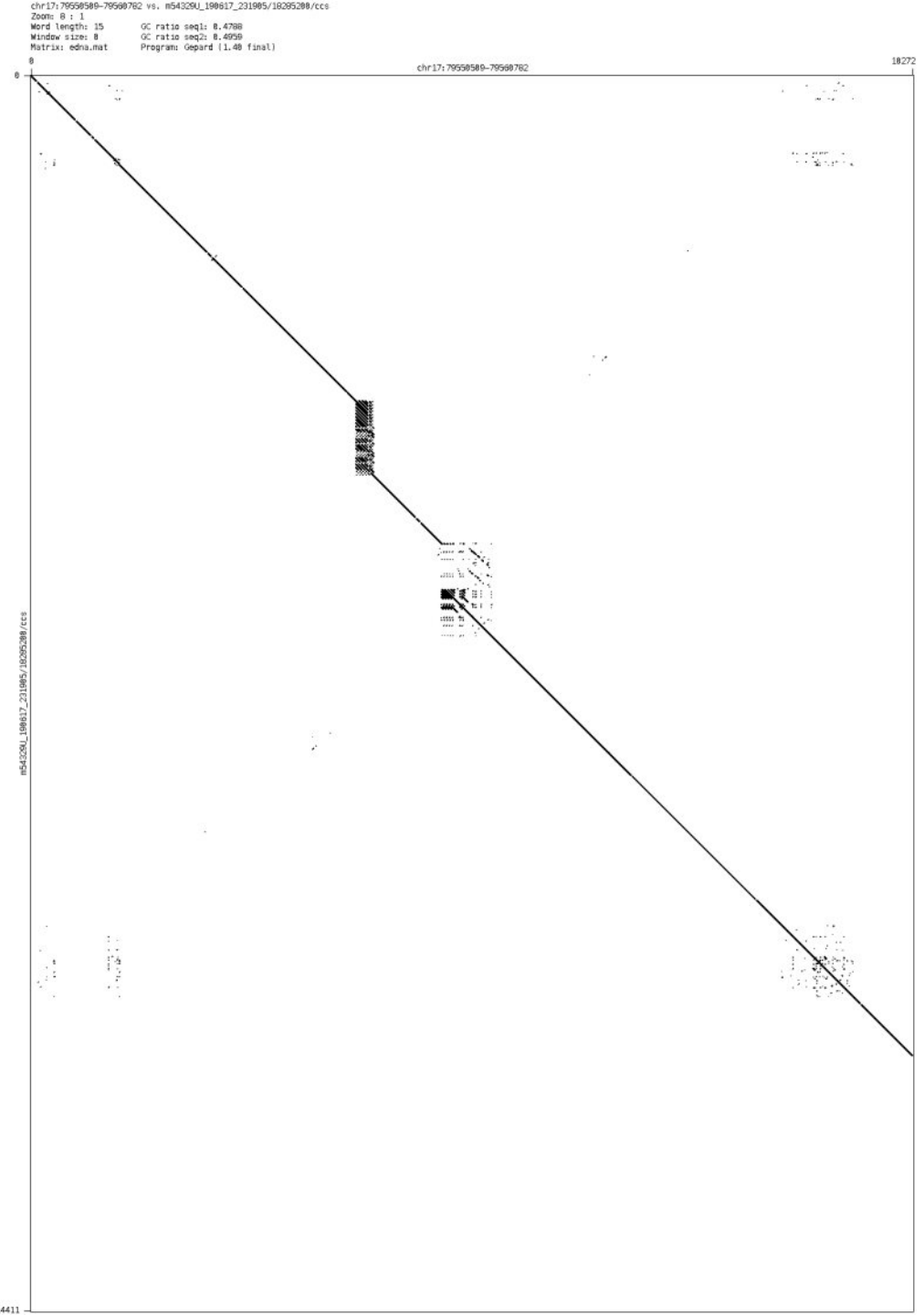
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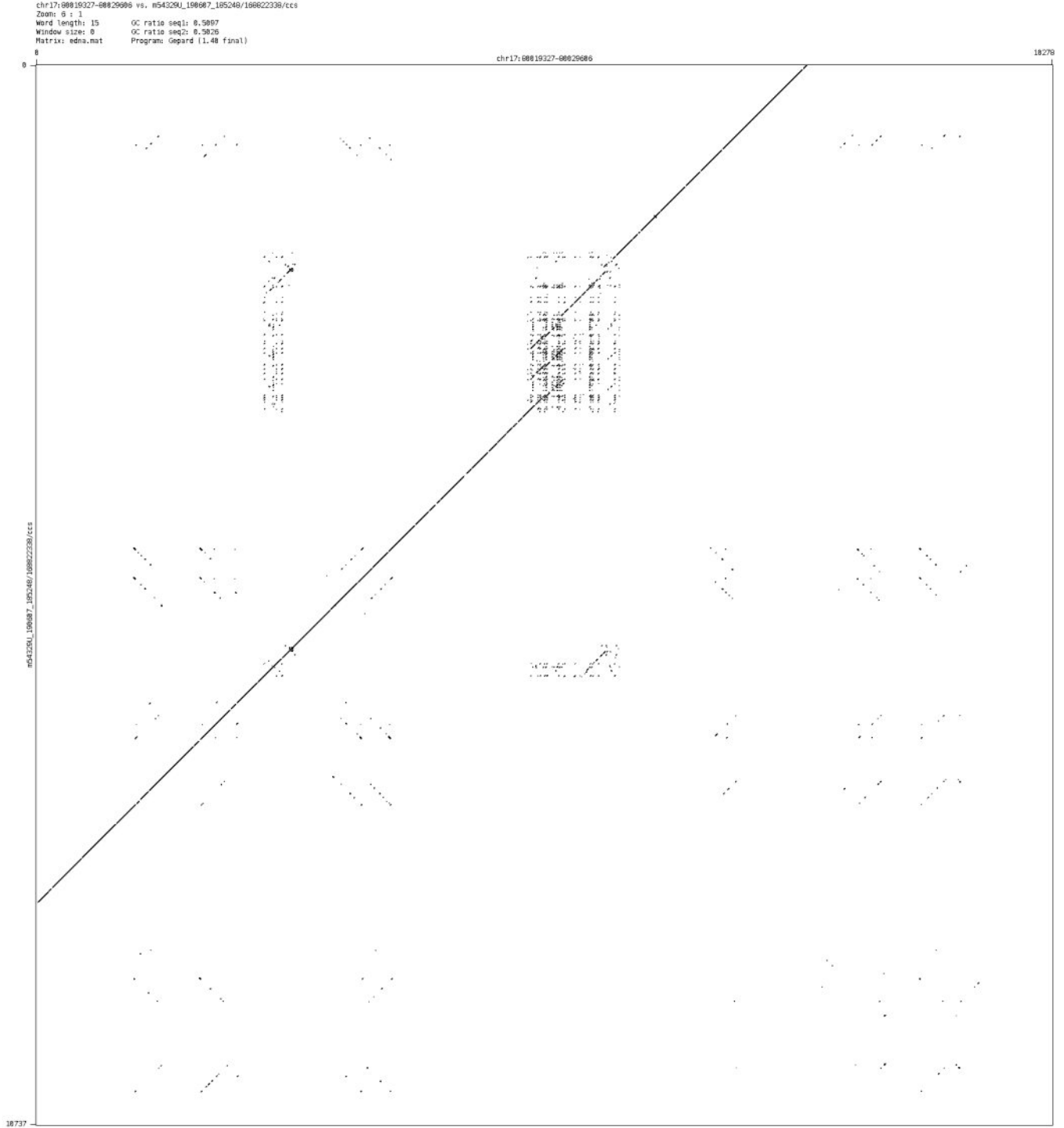
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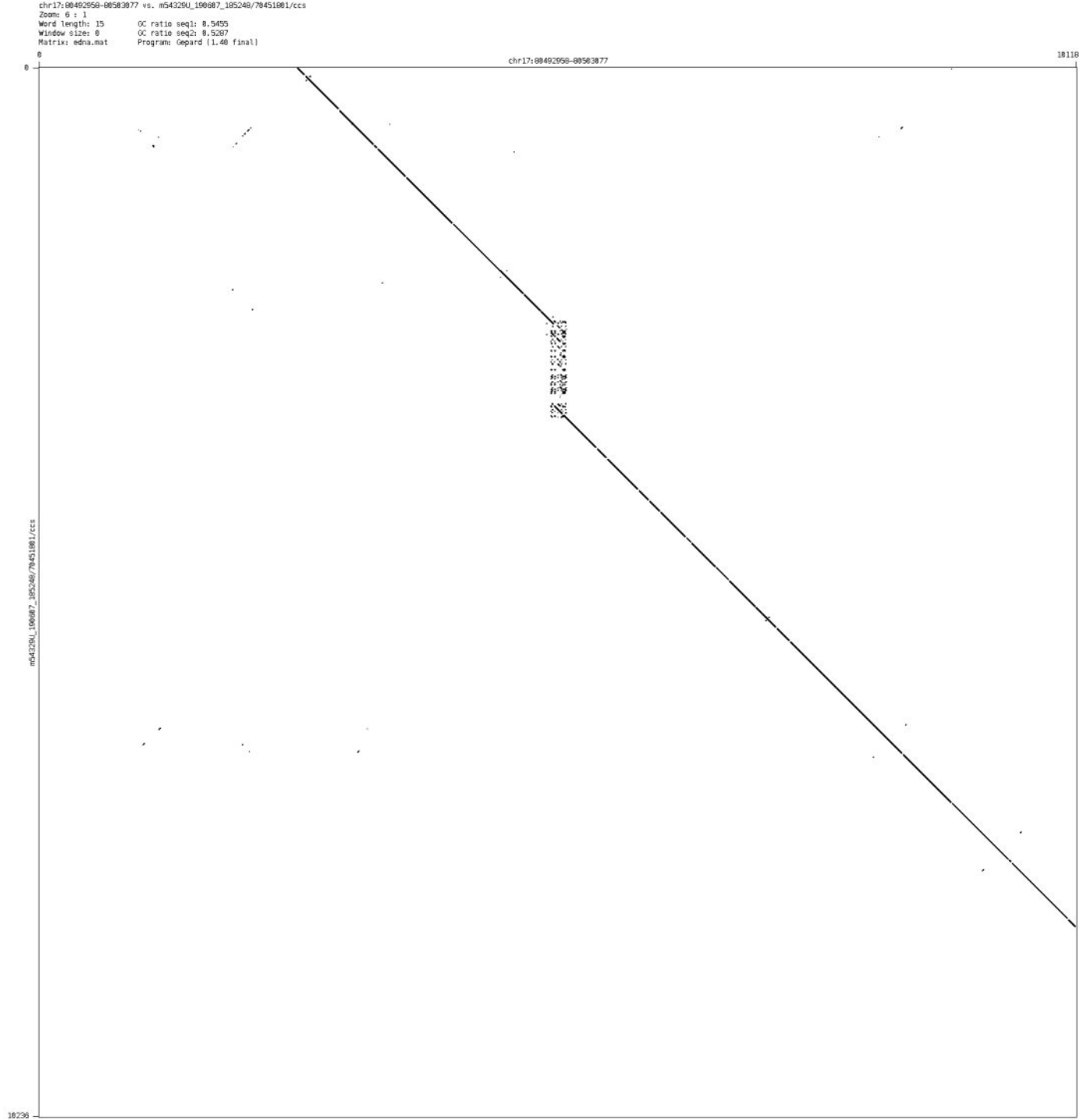
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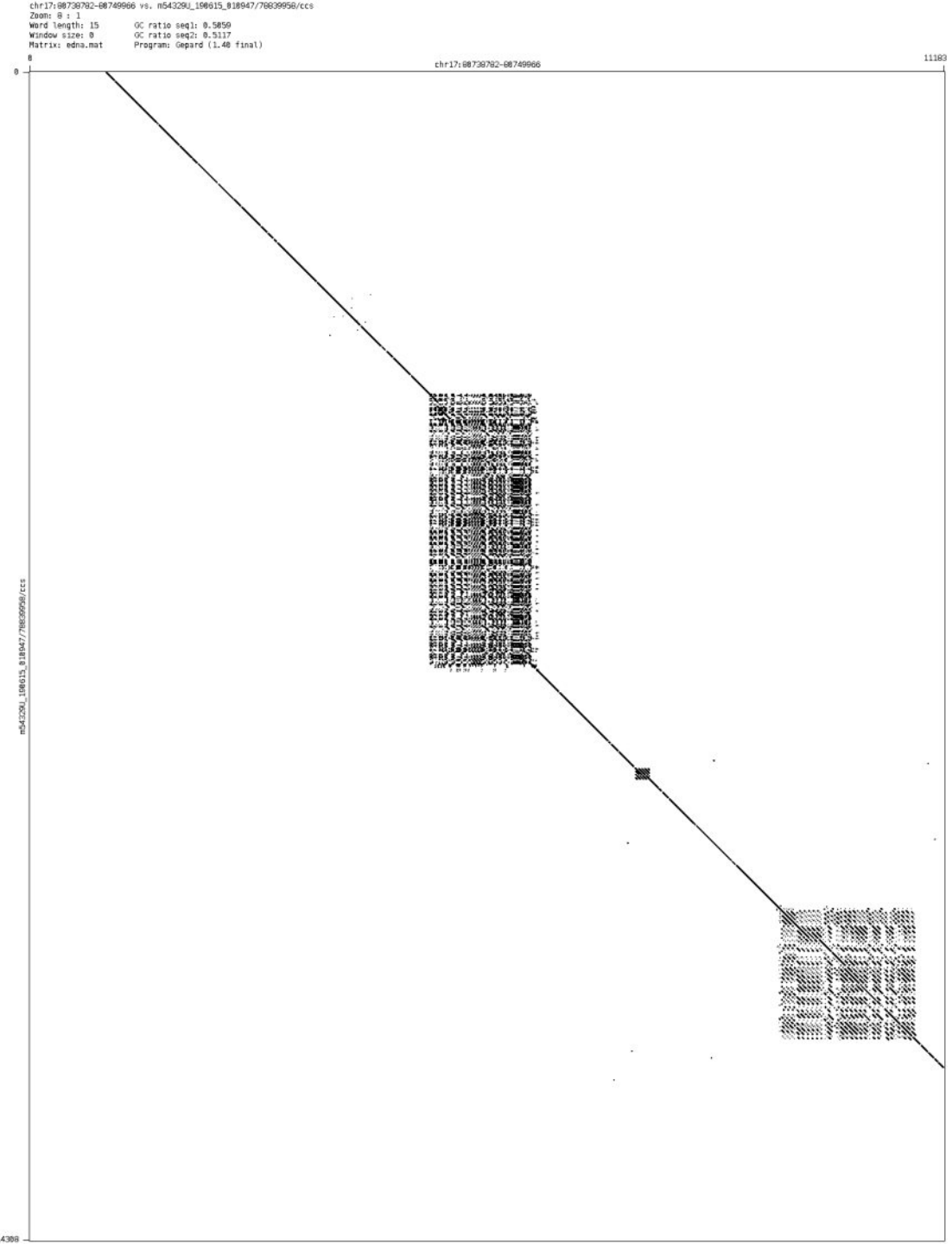
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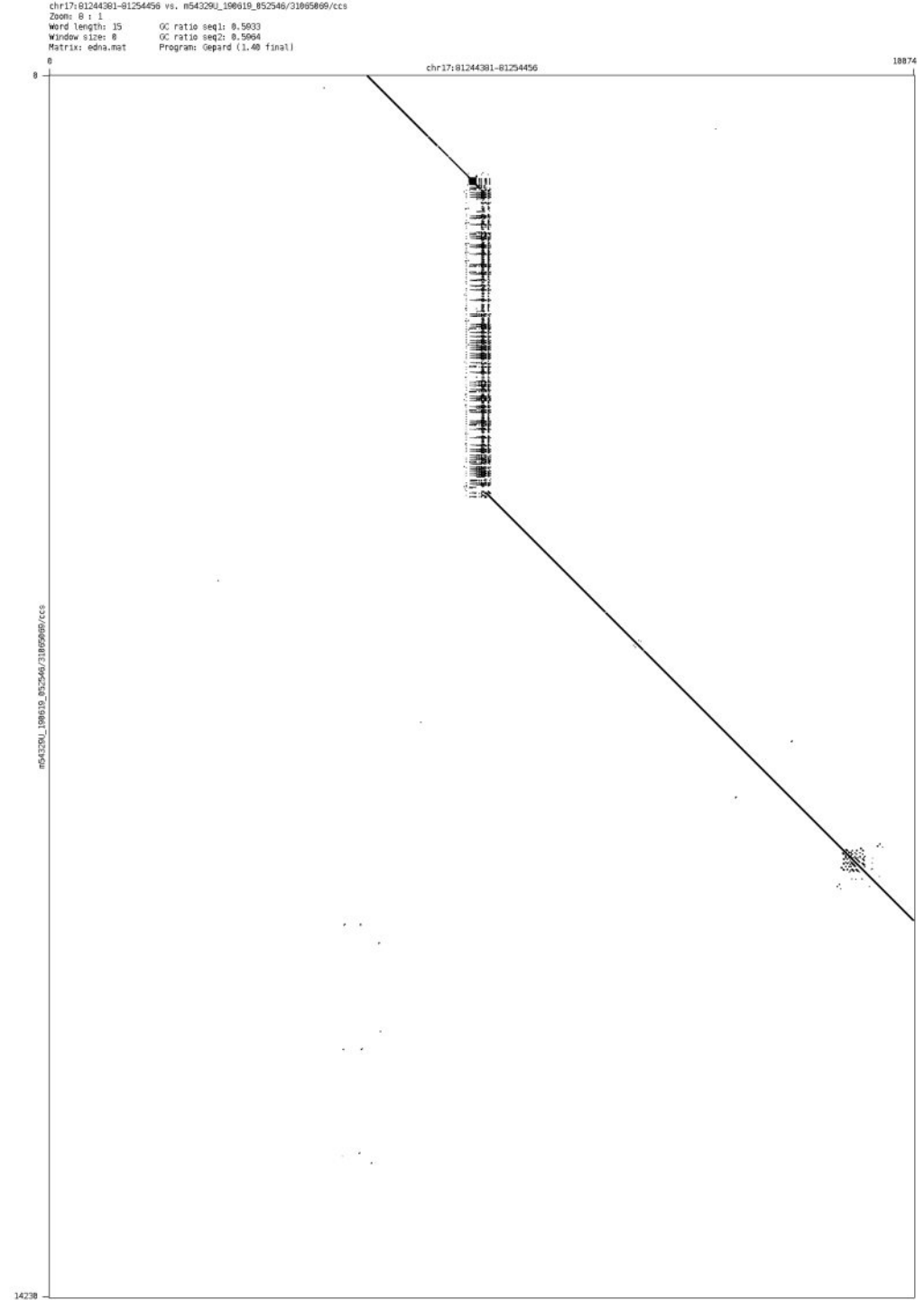


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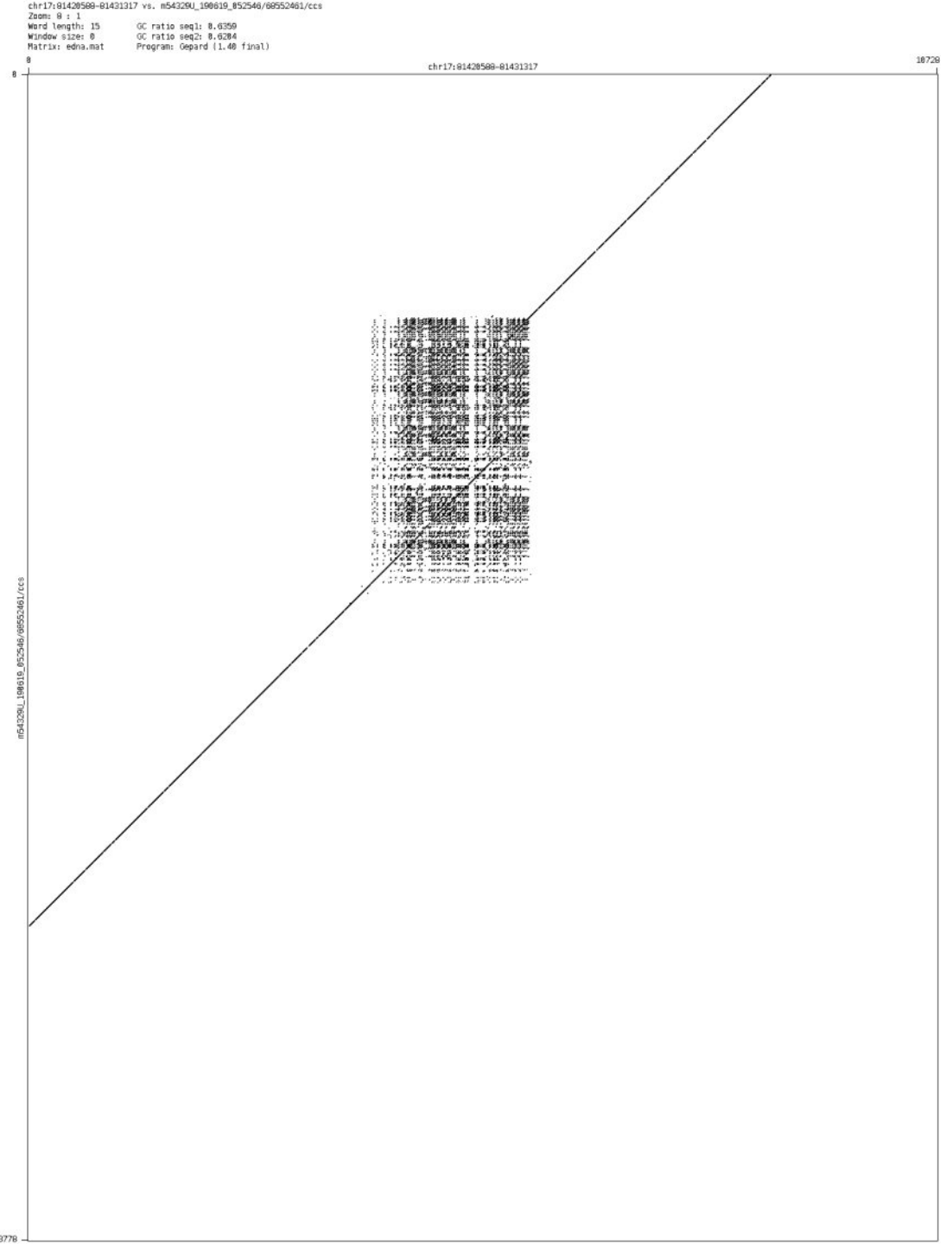




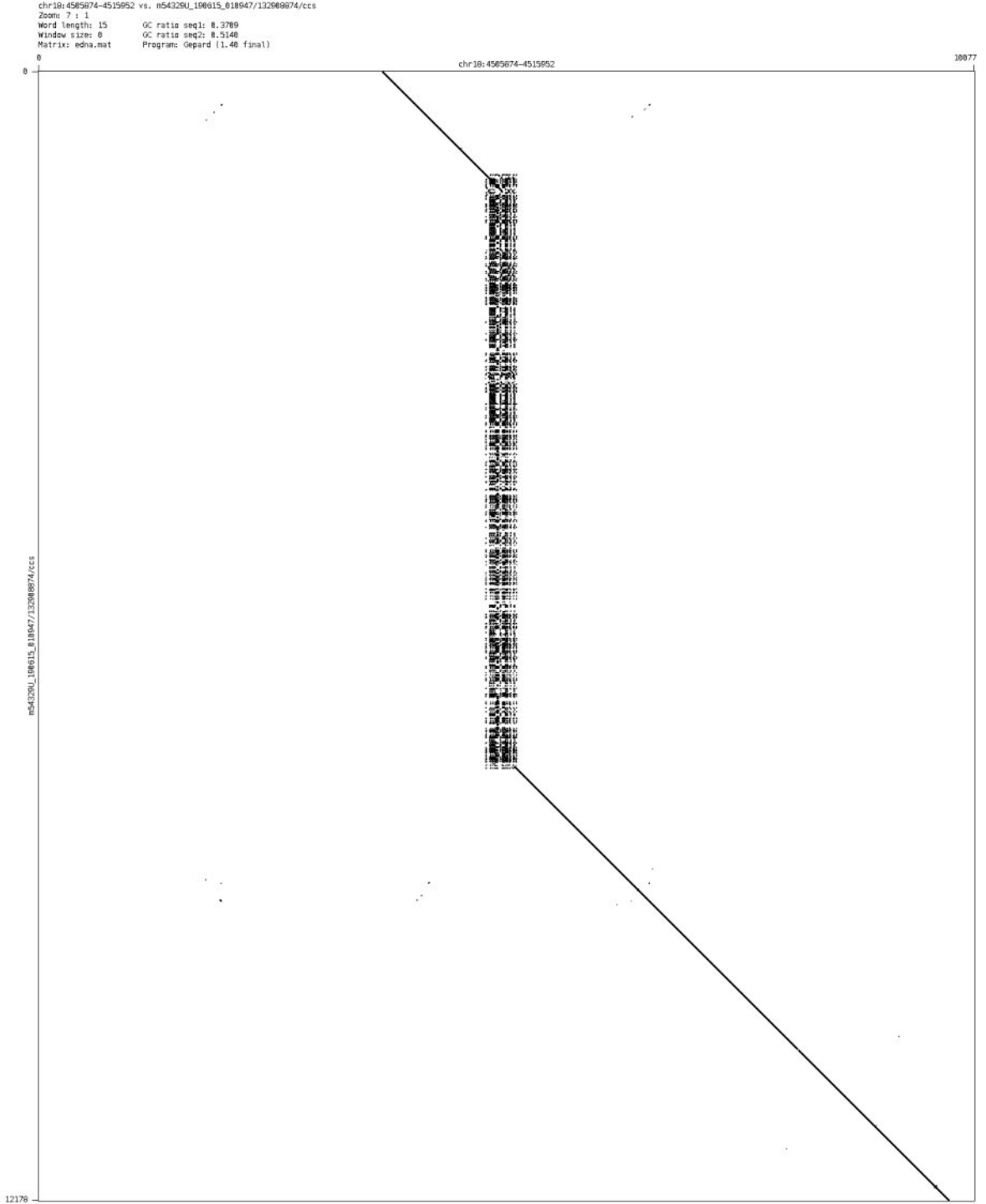
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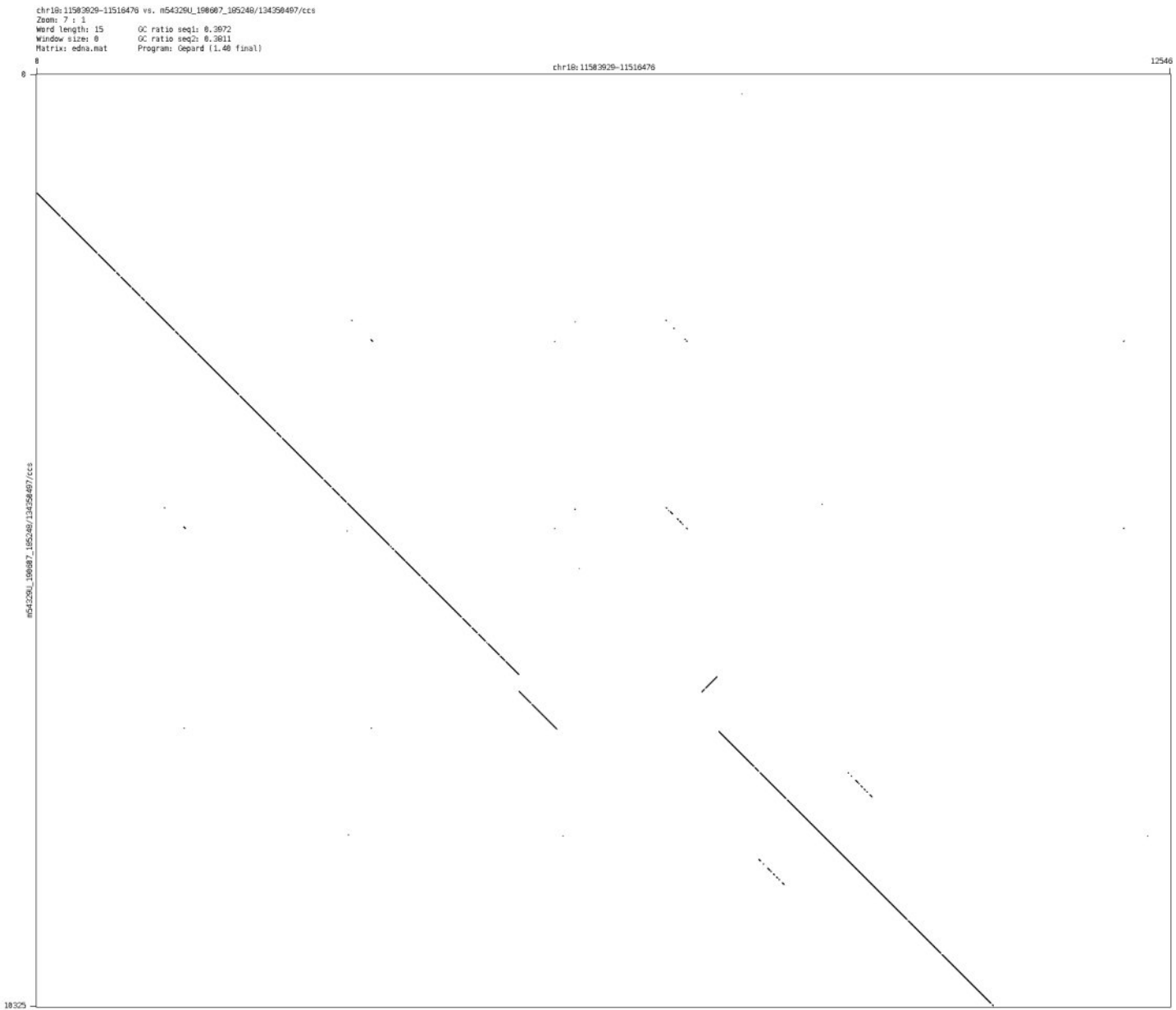
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➤ chr18\_4510874\_4510952



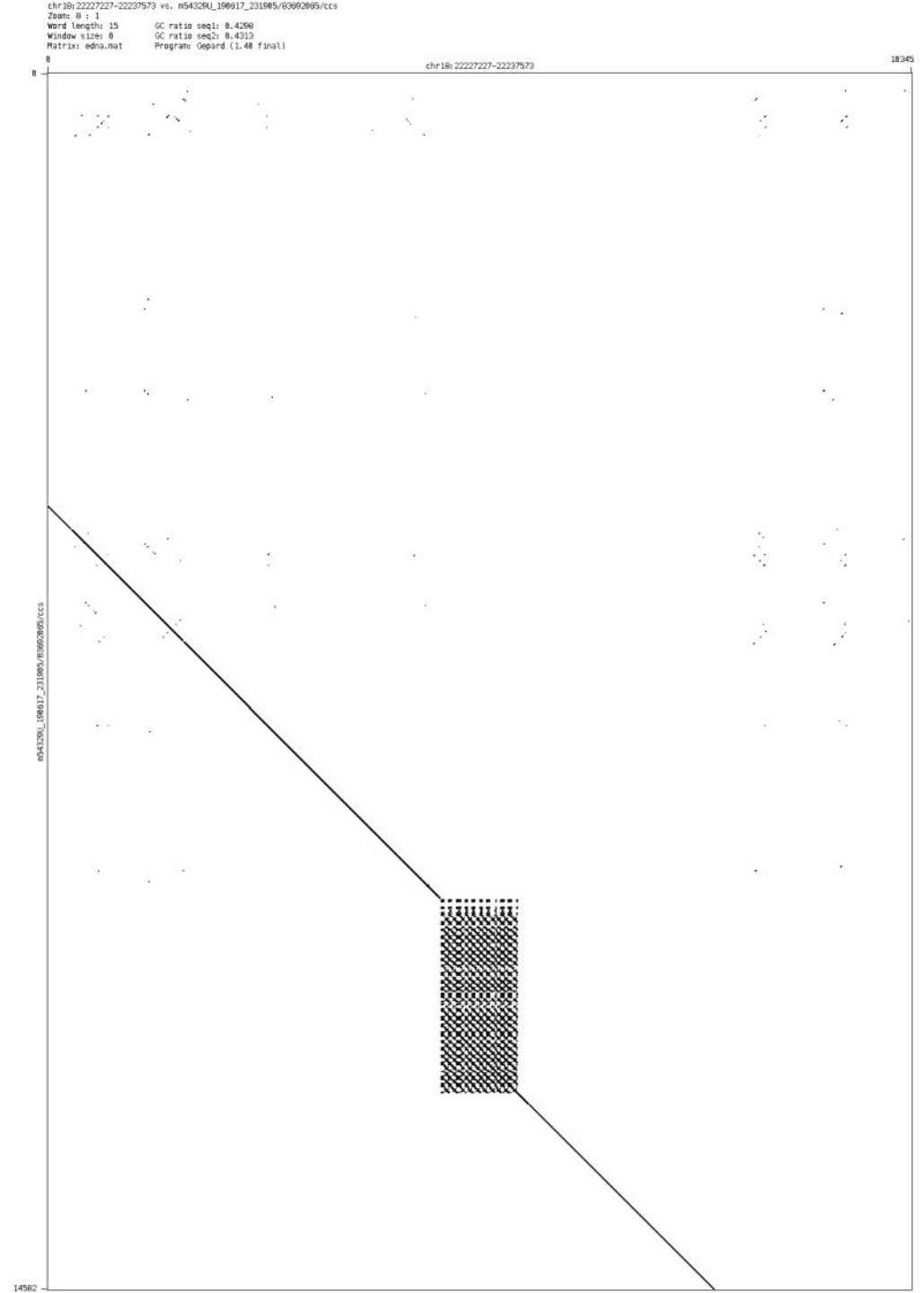
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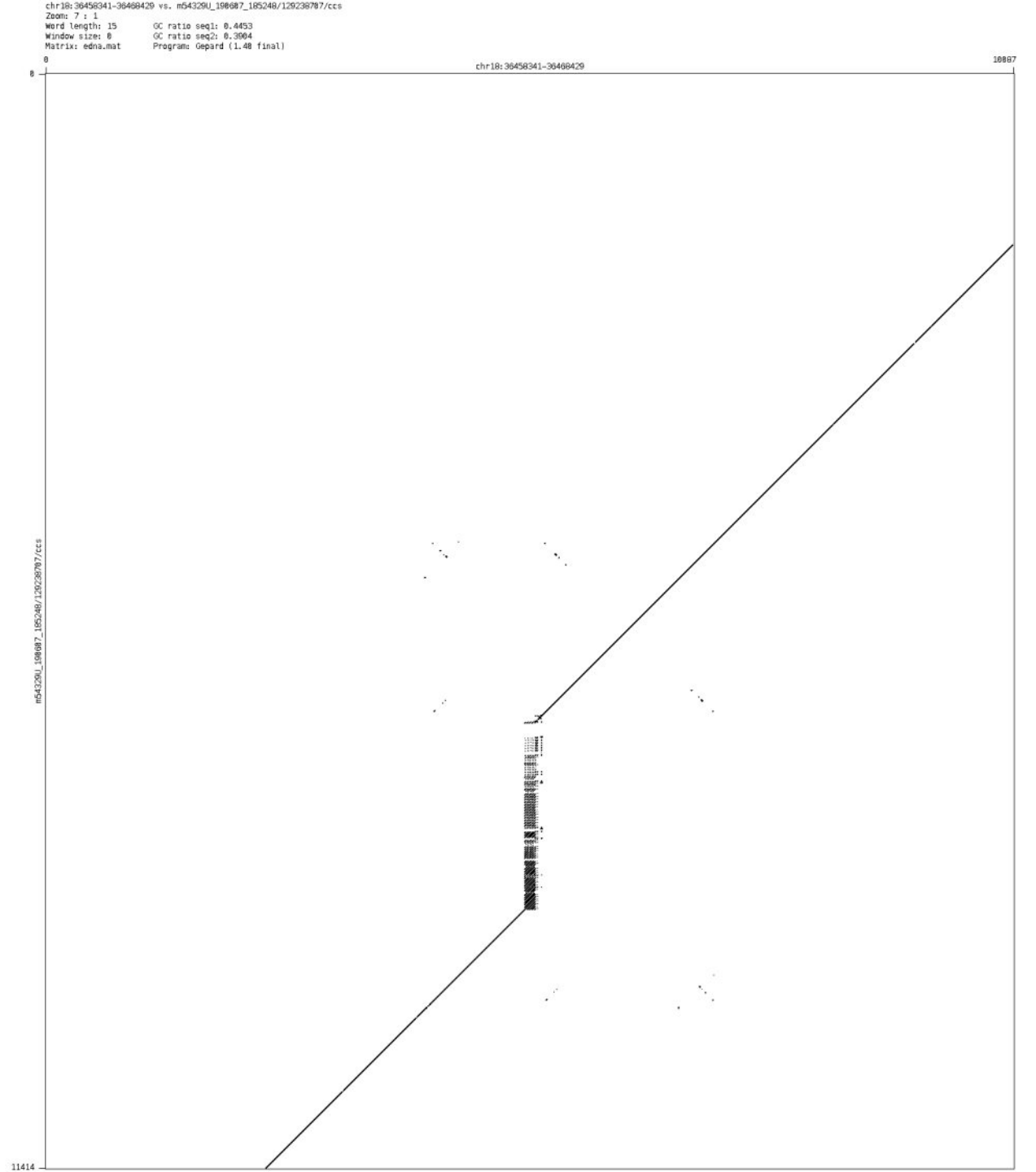
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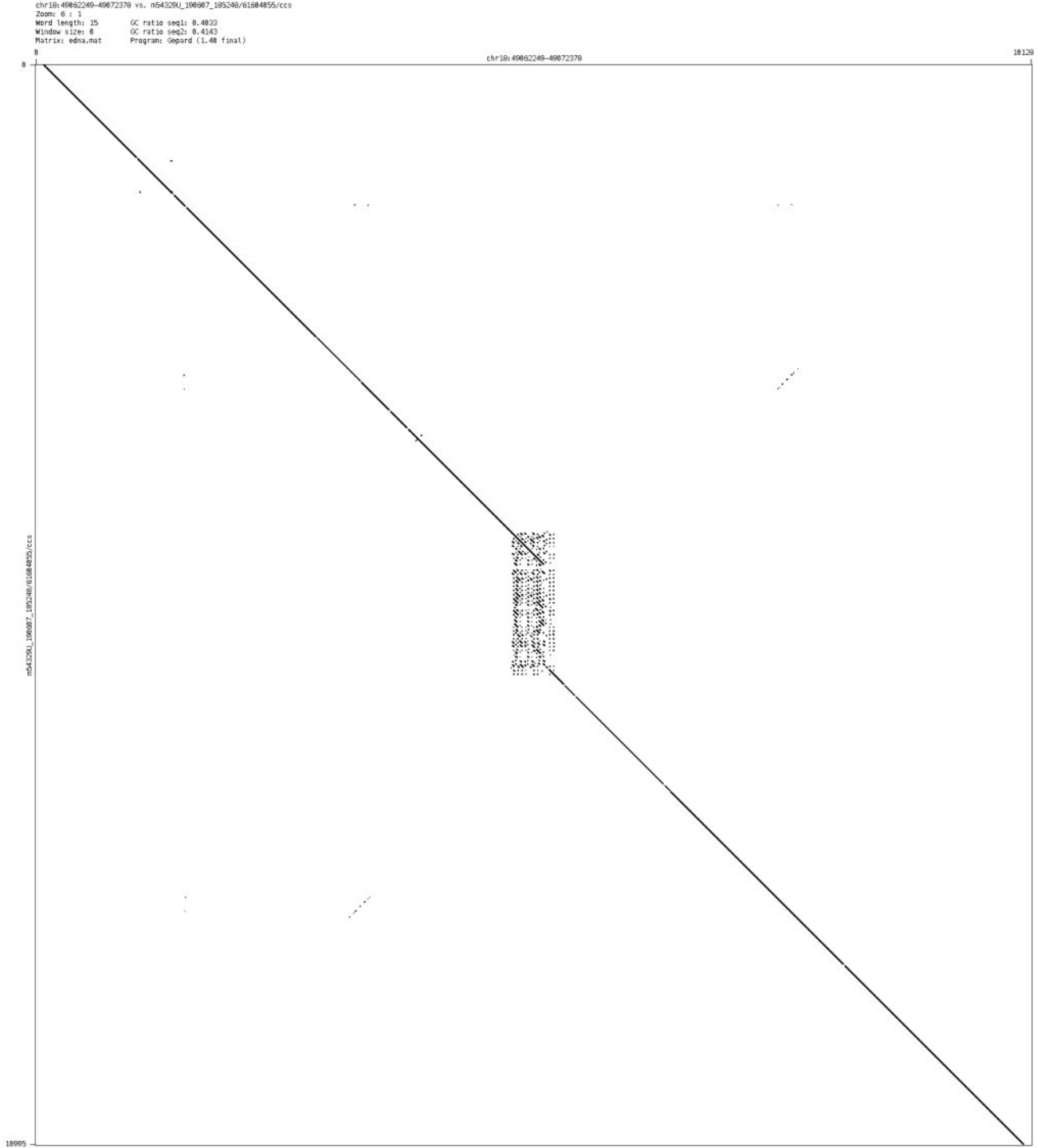
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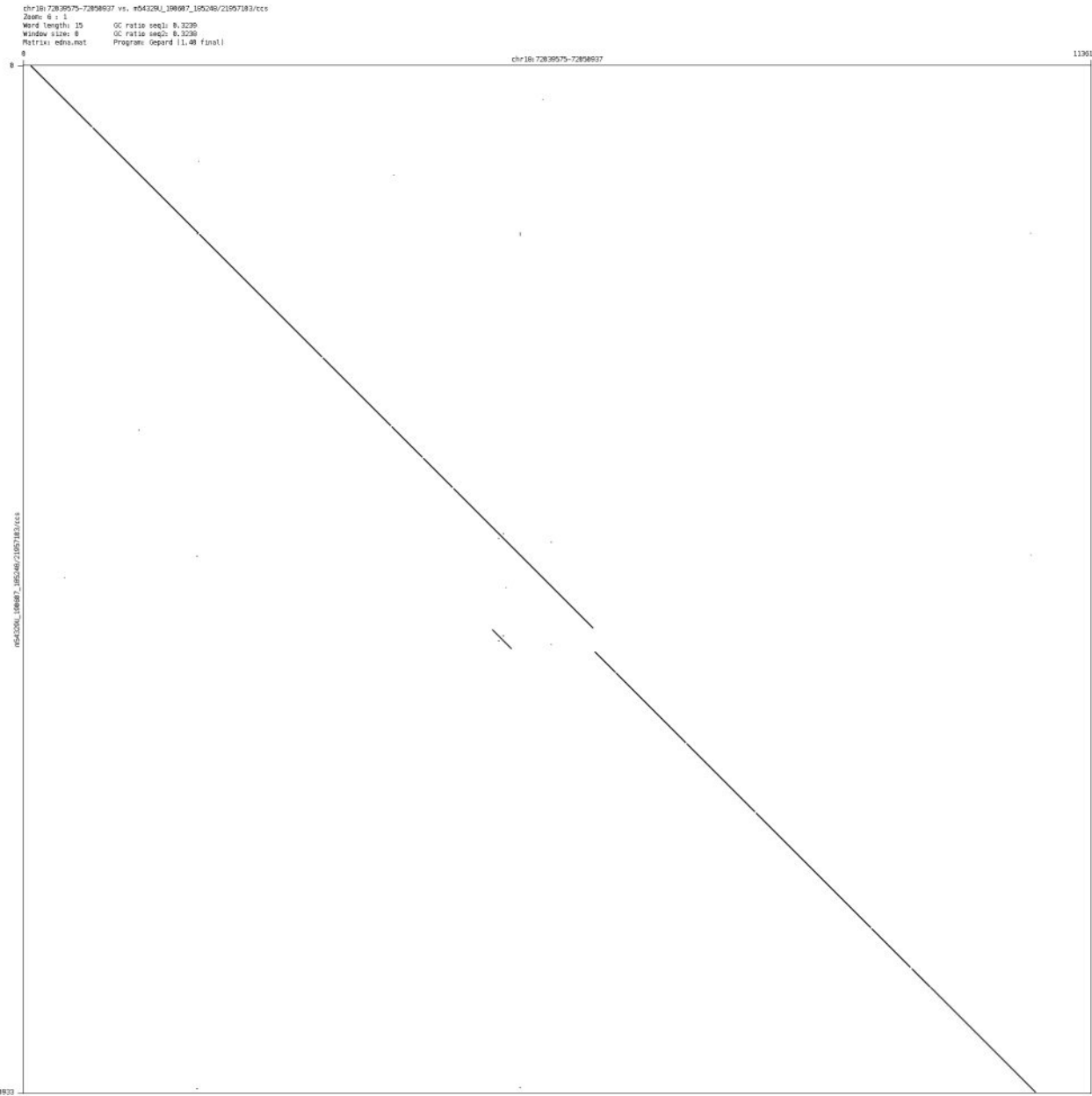


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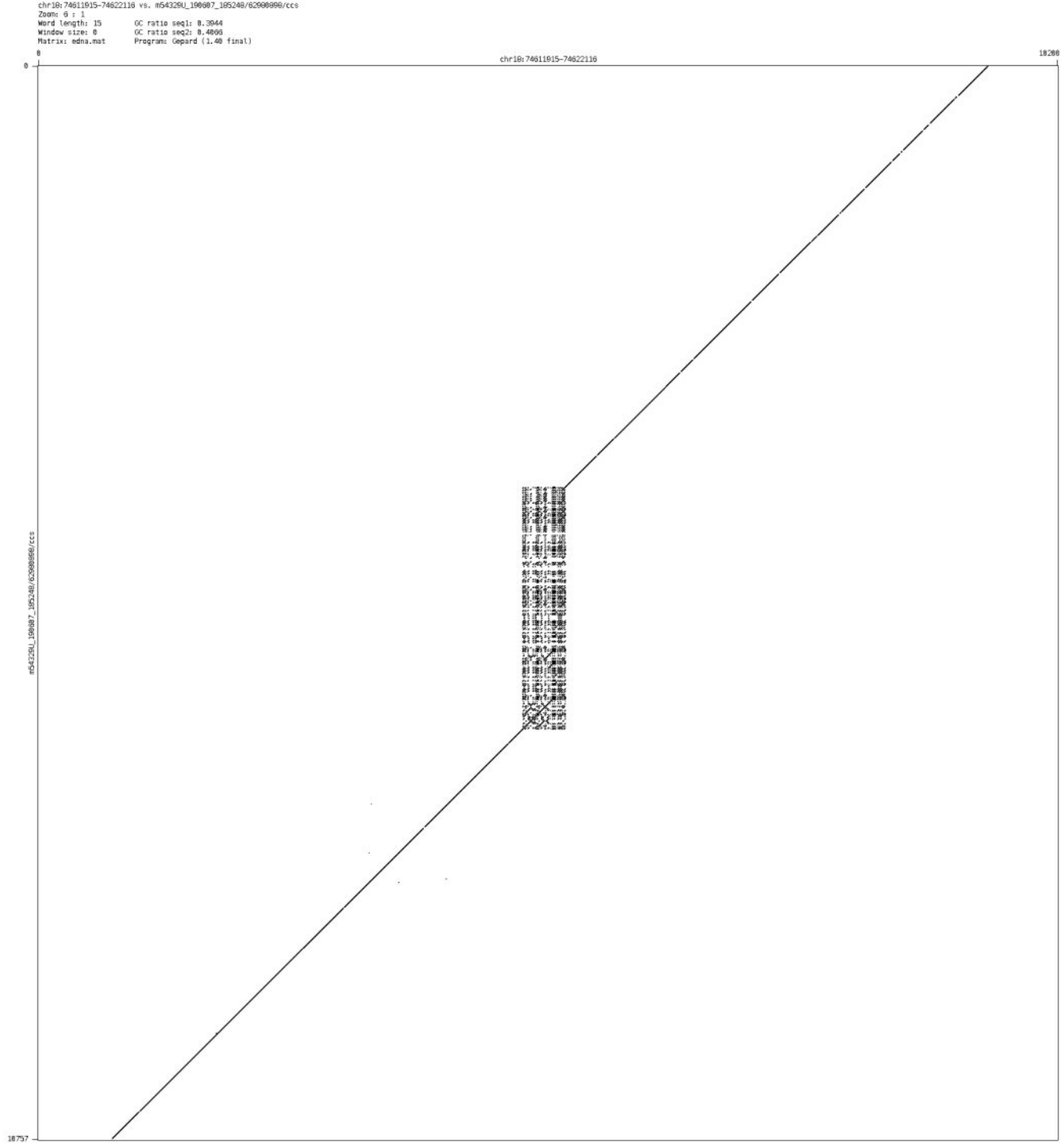




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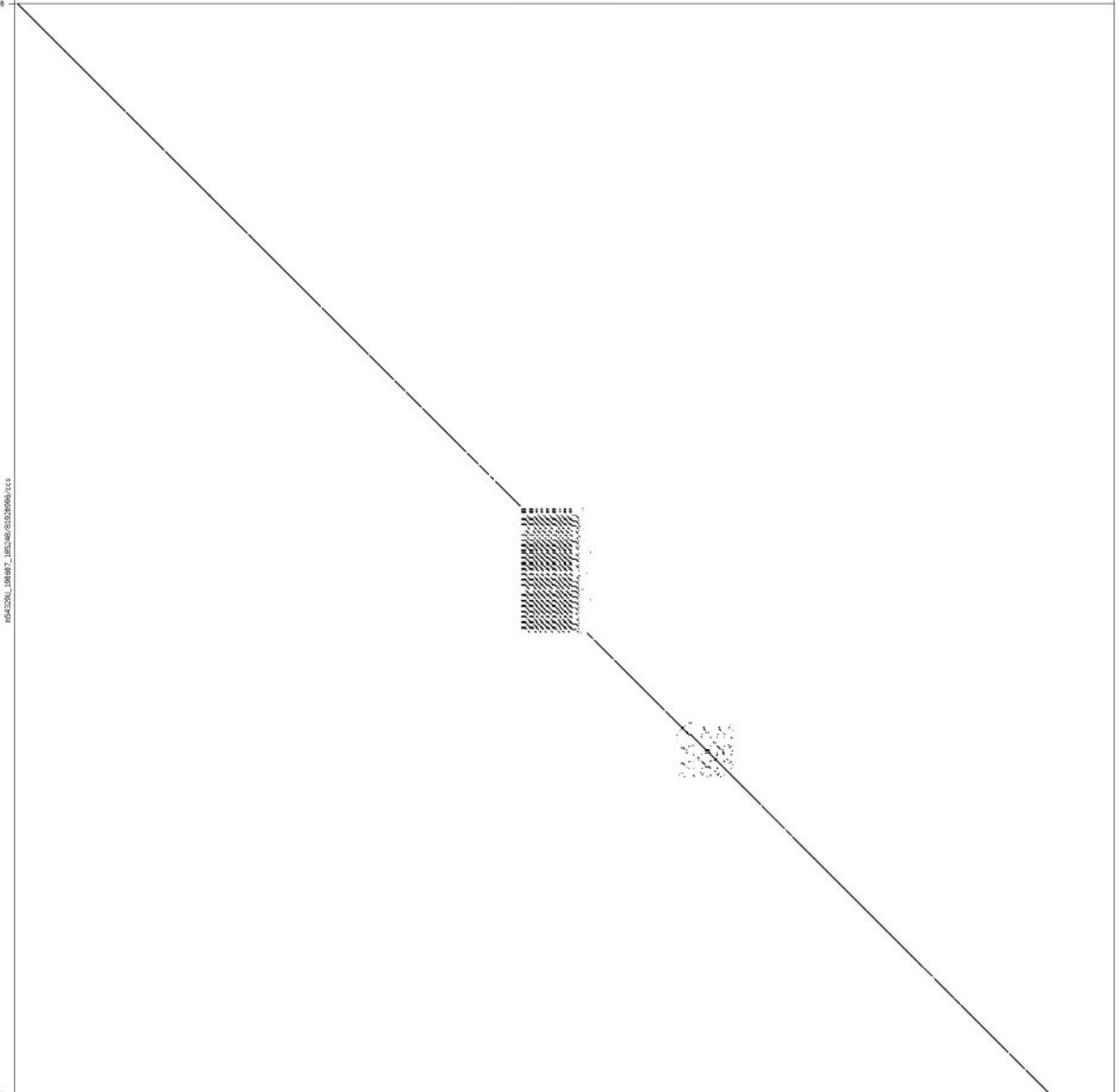


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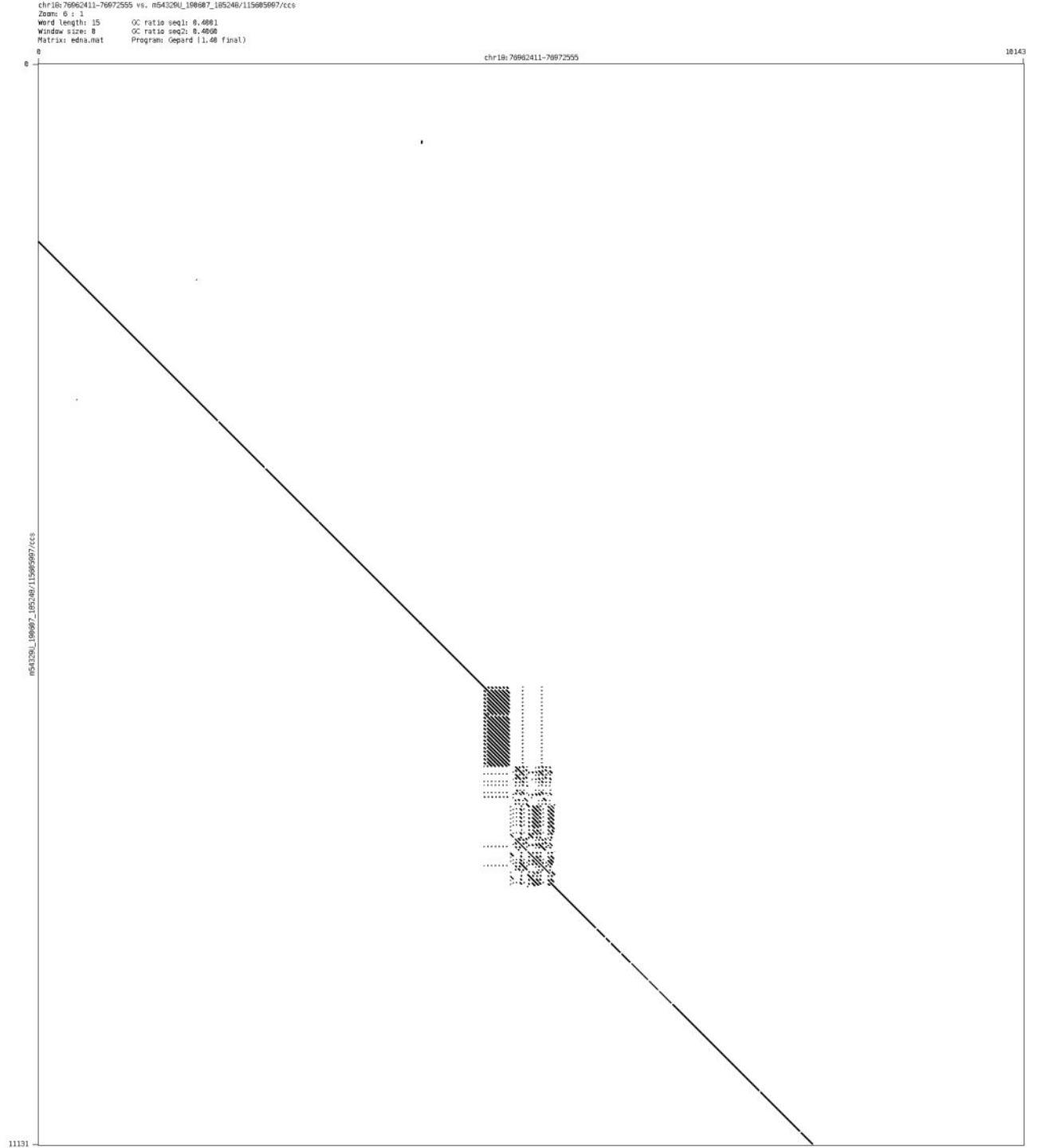


➤ chr18\_76585300\_76586173

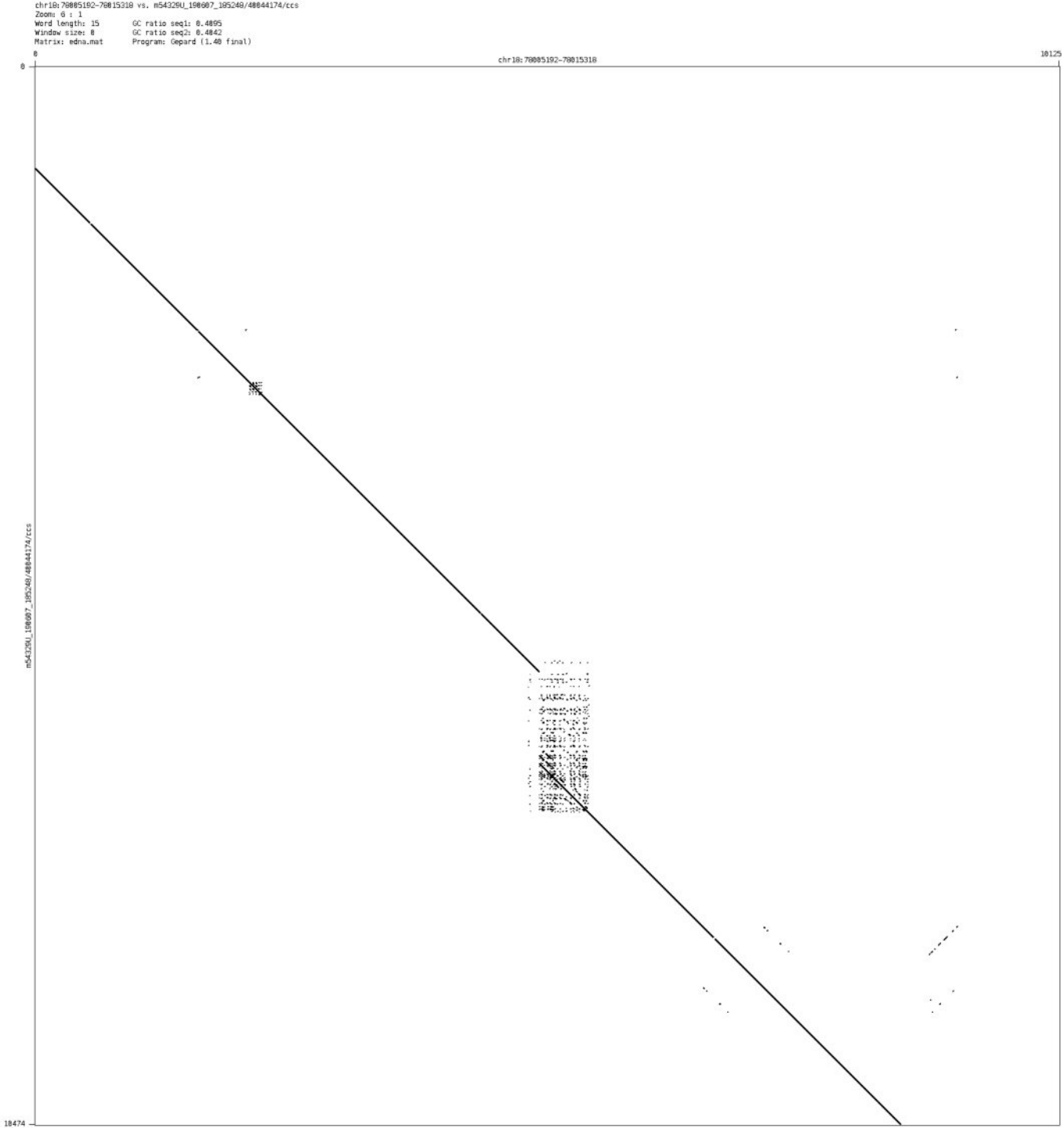
chr18:70568388-70591173 vs. rs43250\_199497\_185246/81528996/ccs  
Zscore: 0 : 1      GC ratio seq1: 0.4456  
Word length: 15      GC ratio seq2: 0.4415  
Window size: 8  
Matrix: edna.mat      Program: Gepard (1.48 final)



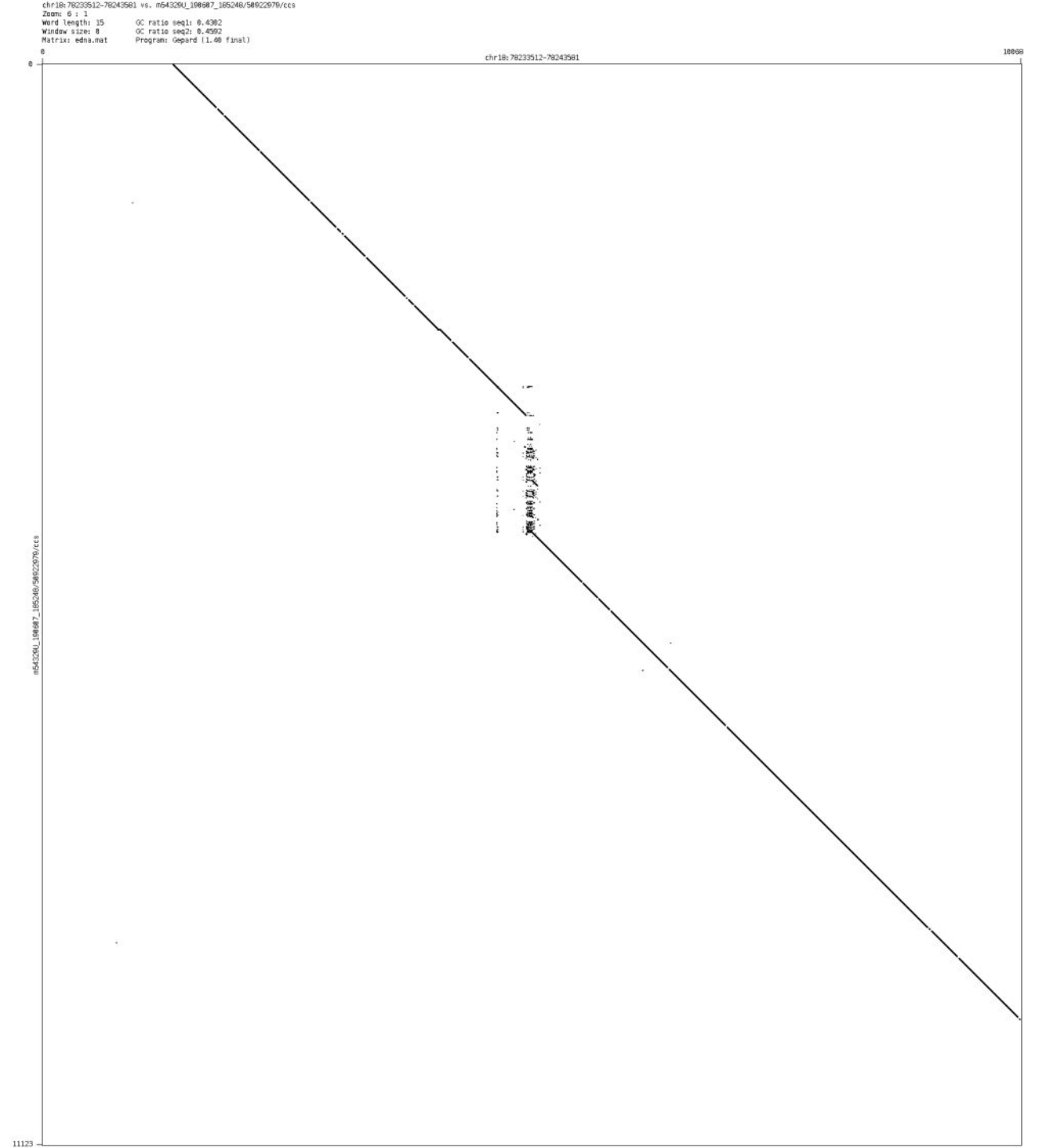
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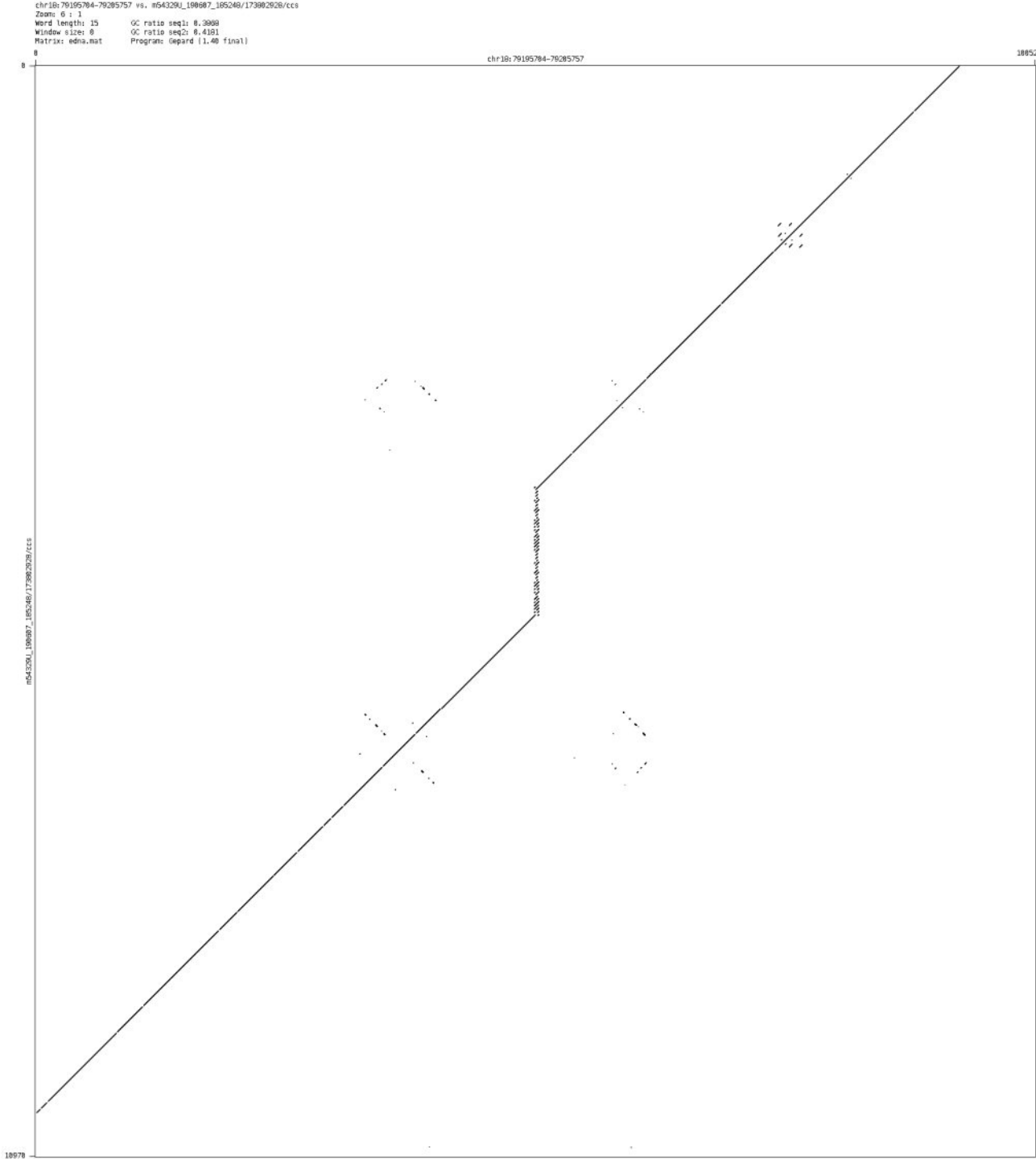
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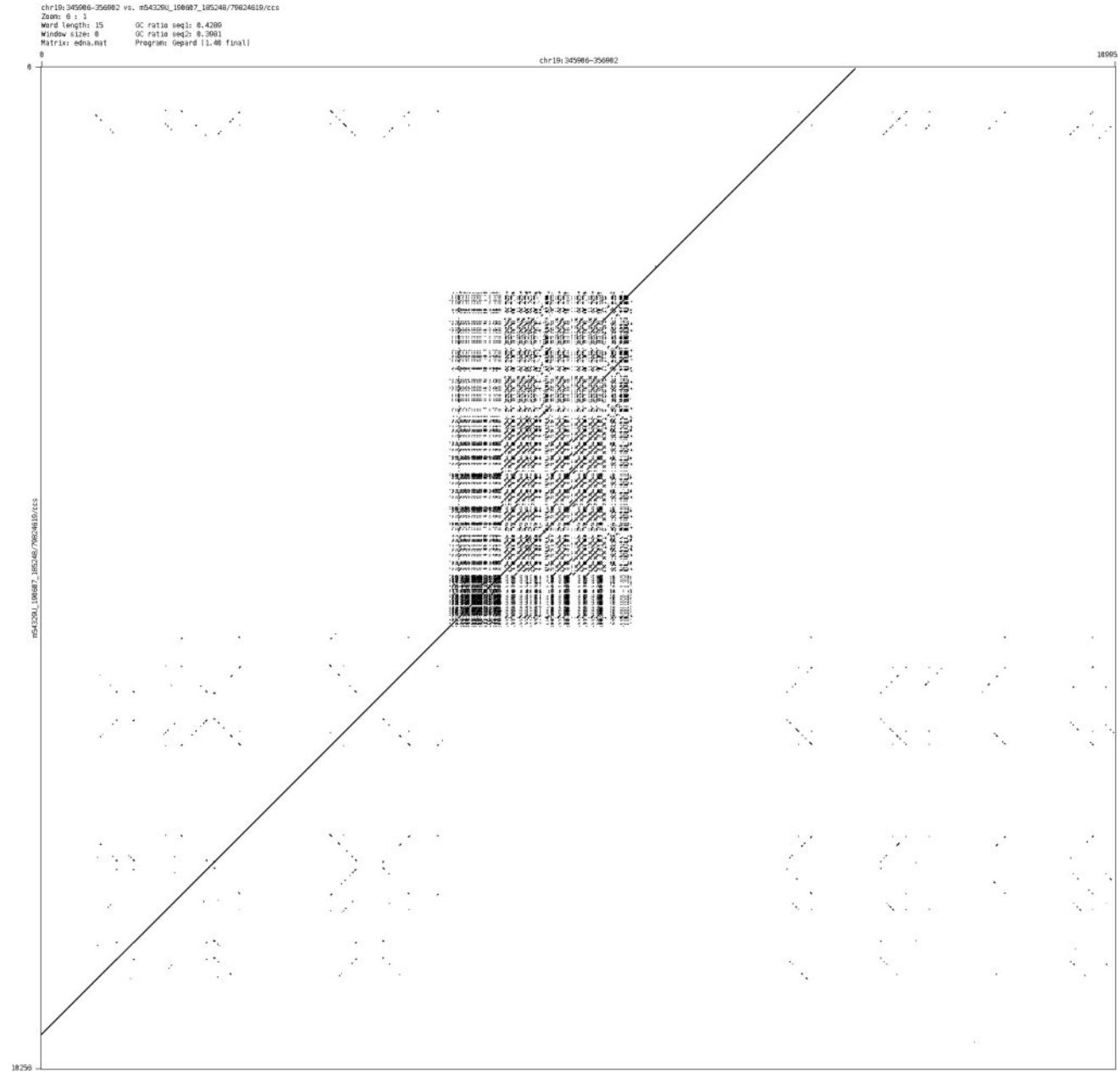
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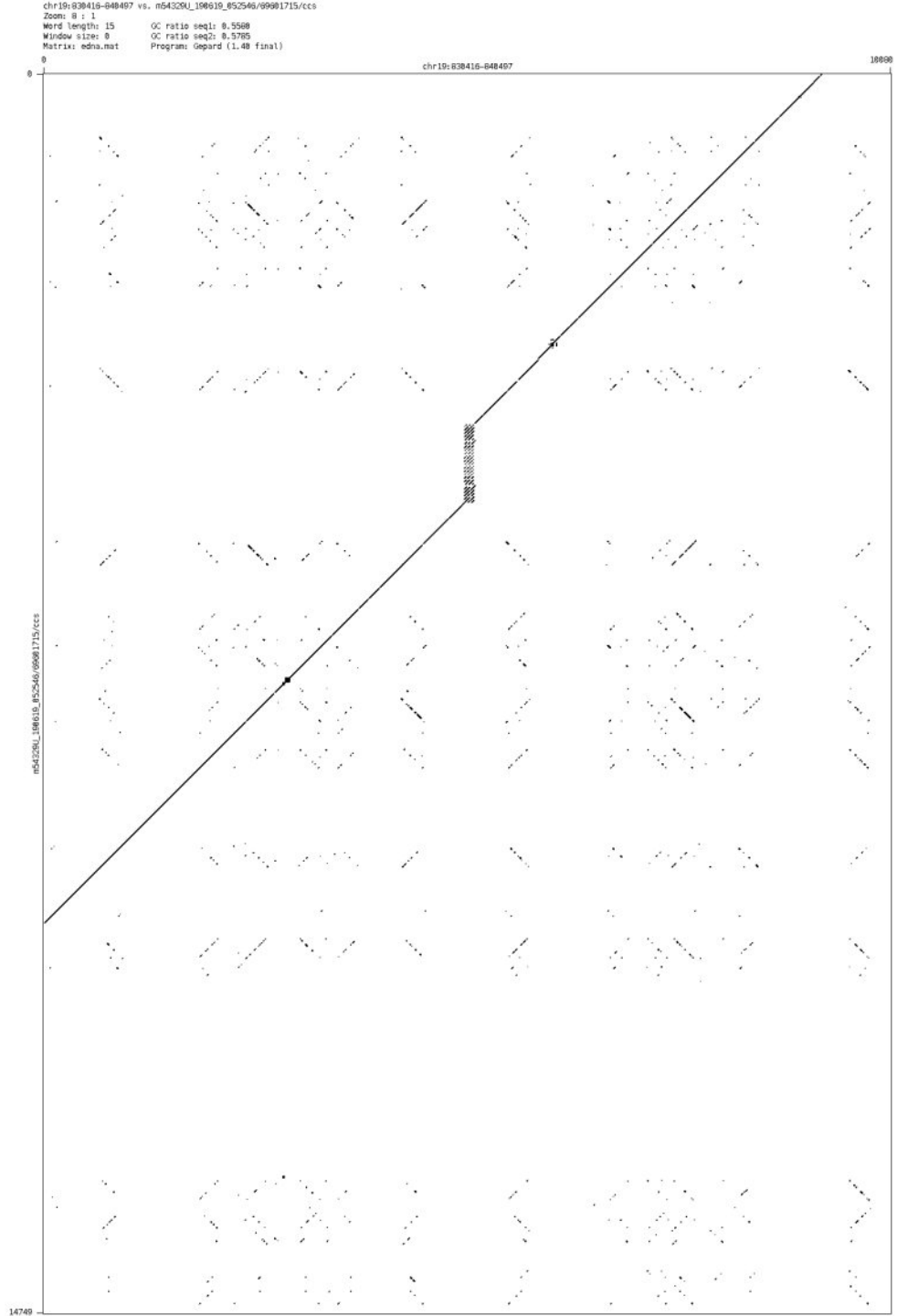


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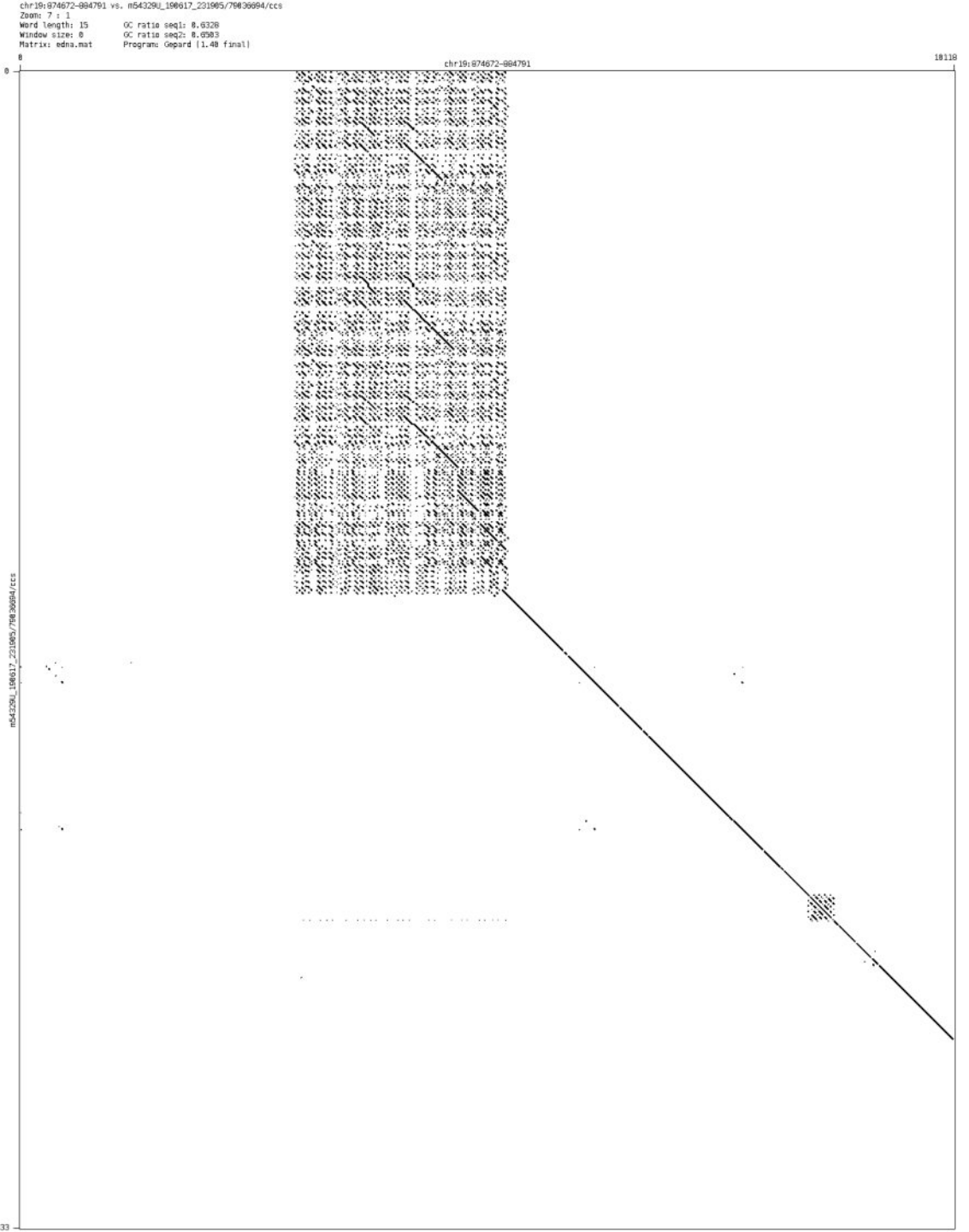




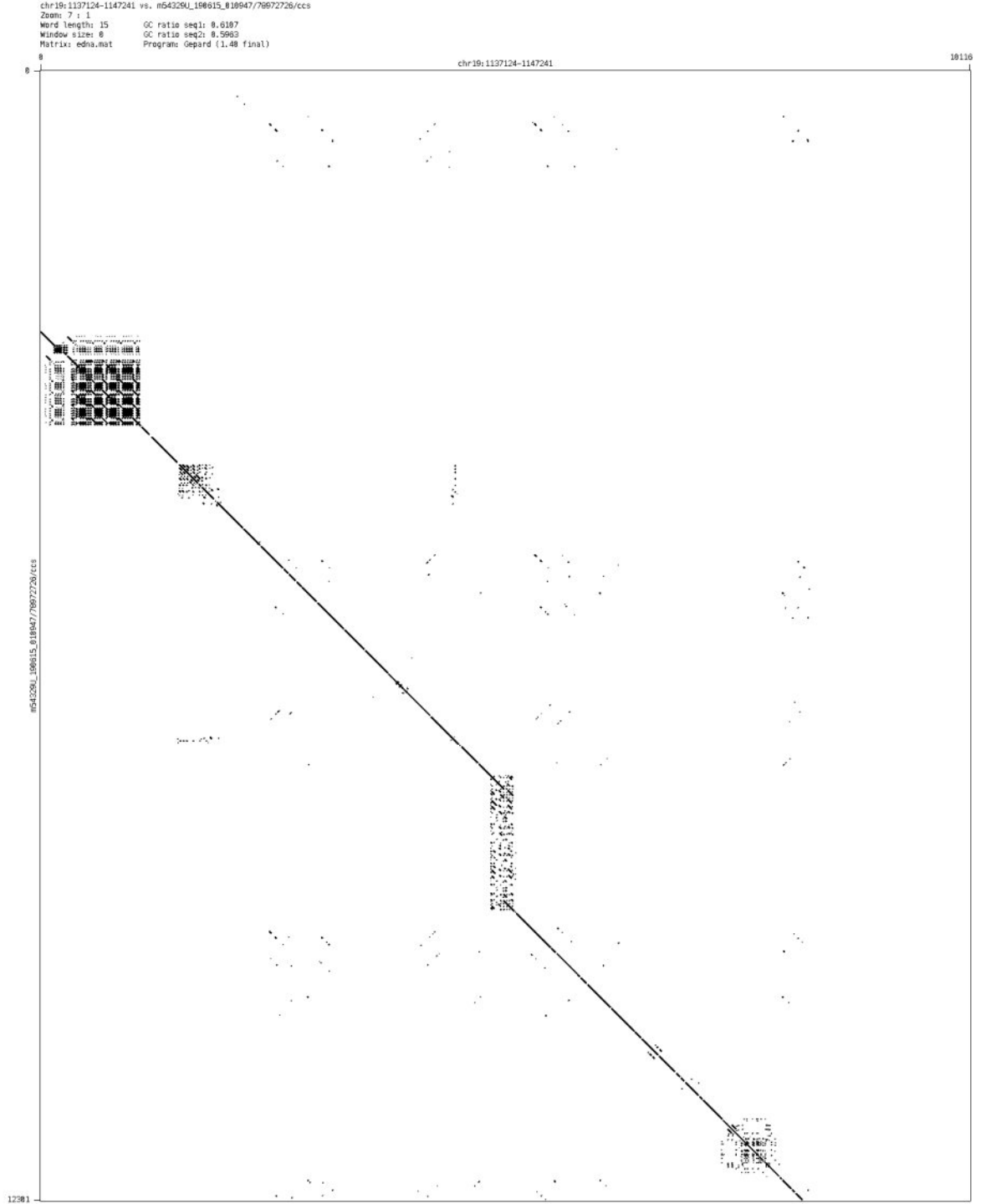
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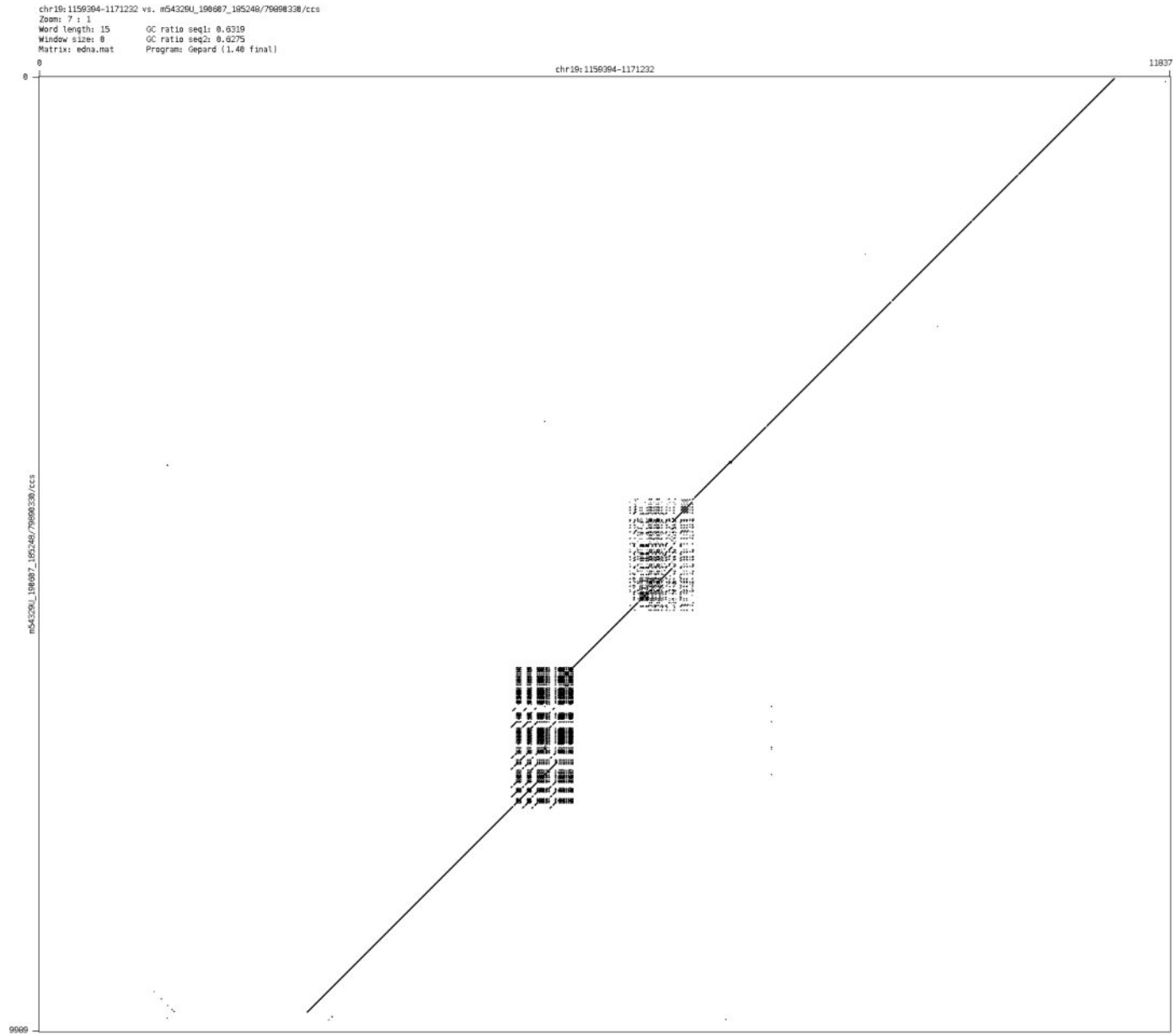
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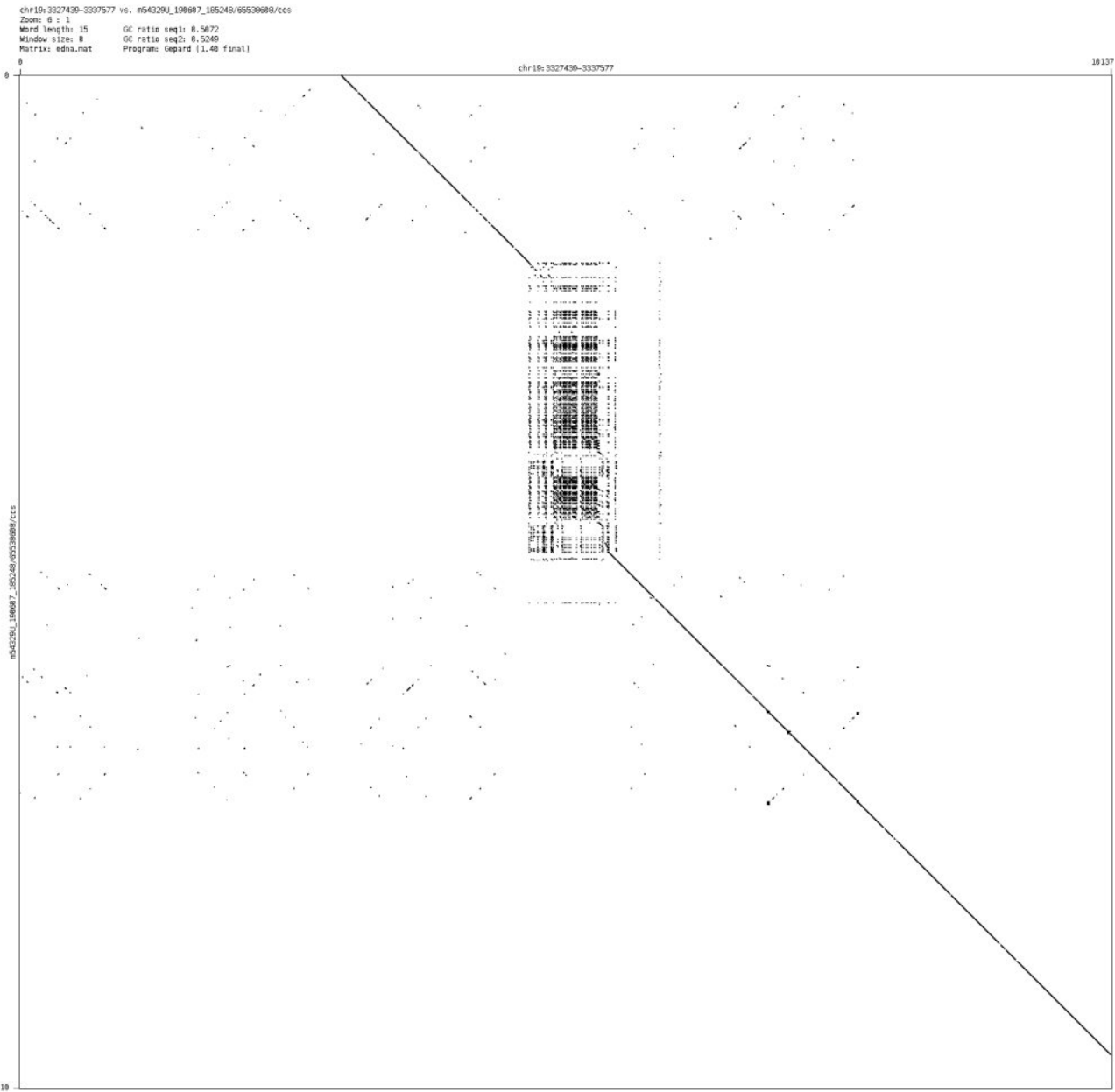
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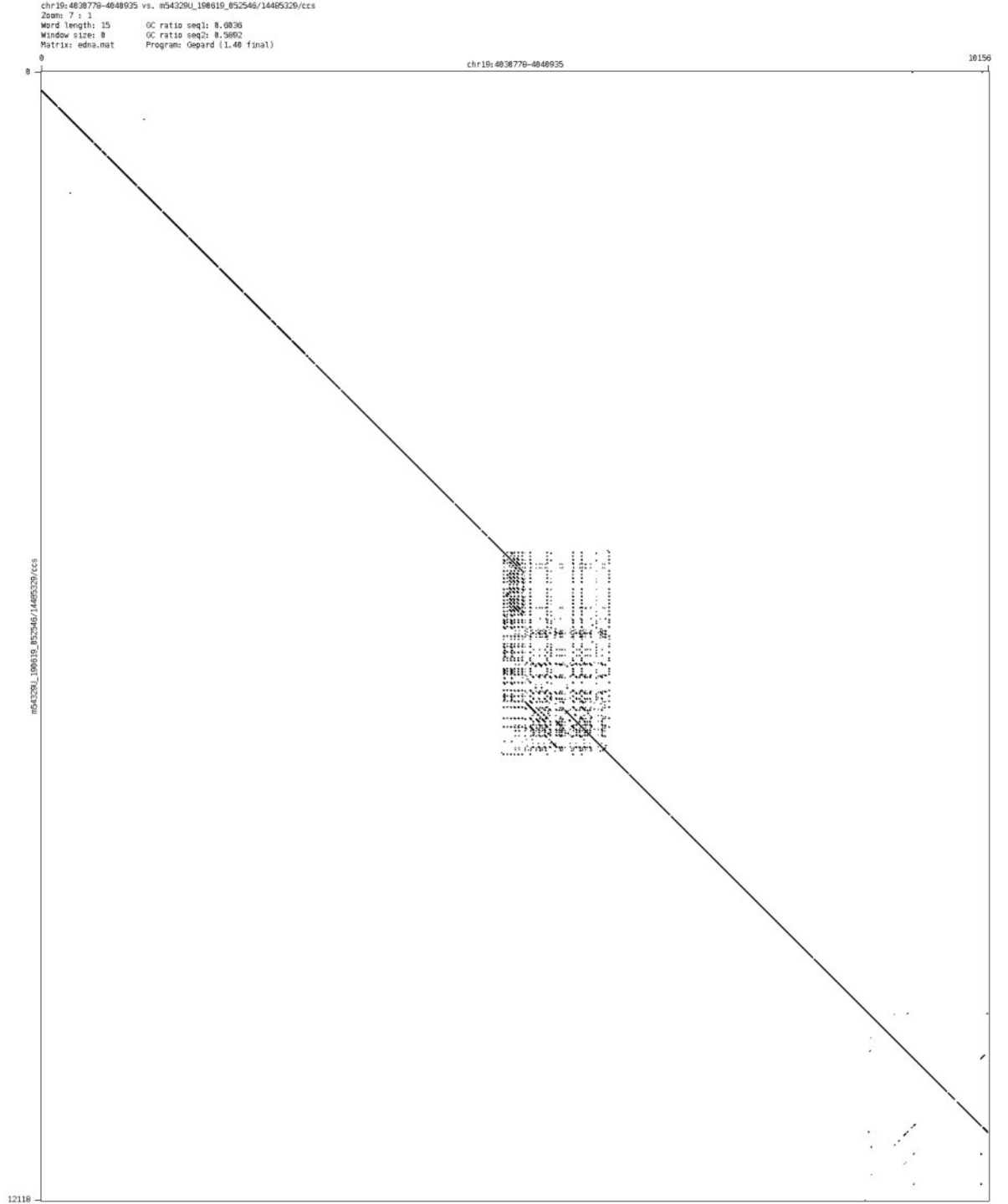
➤ chr19\_1164394\_1166232



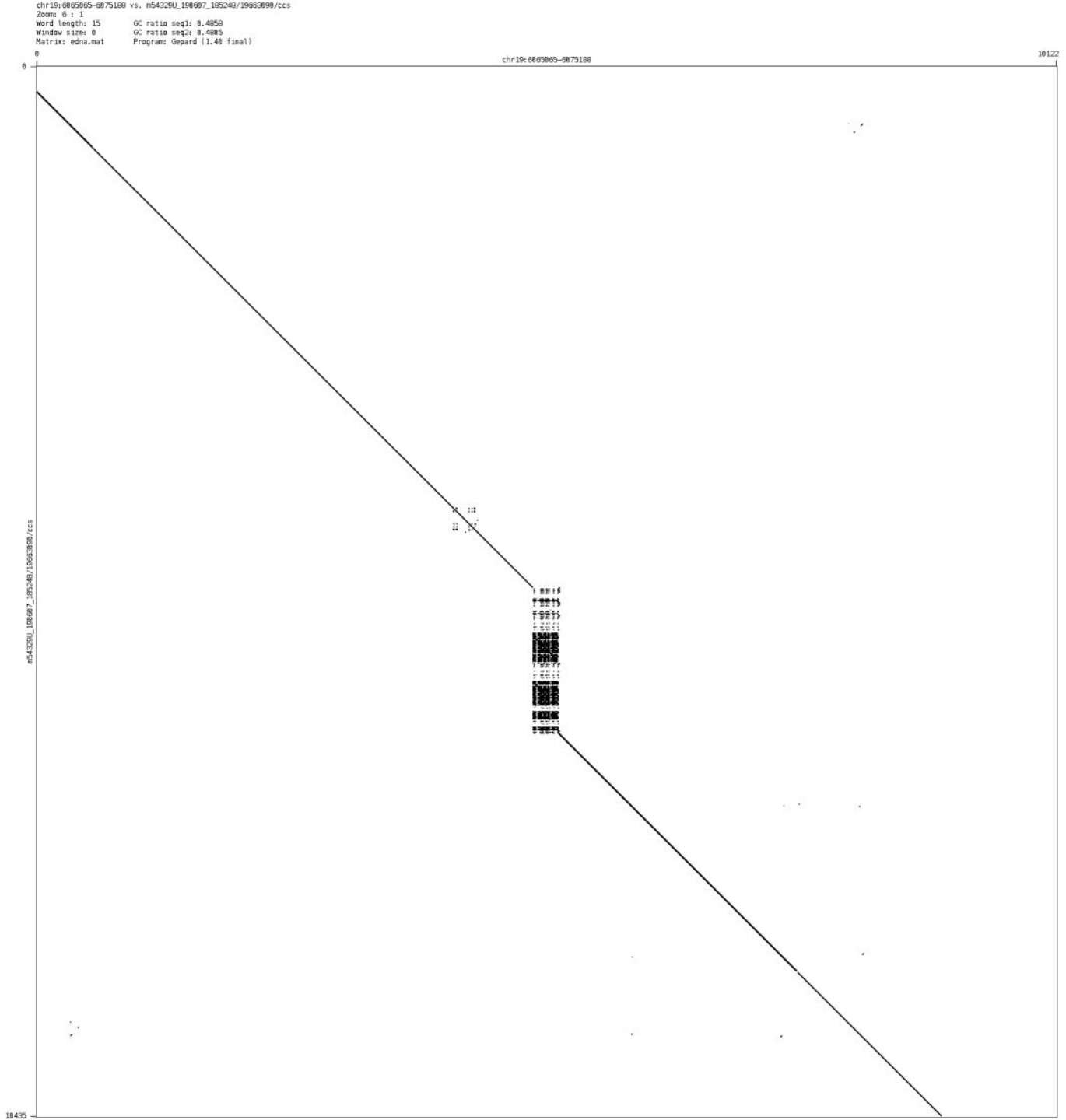
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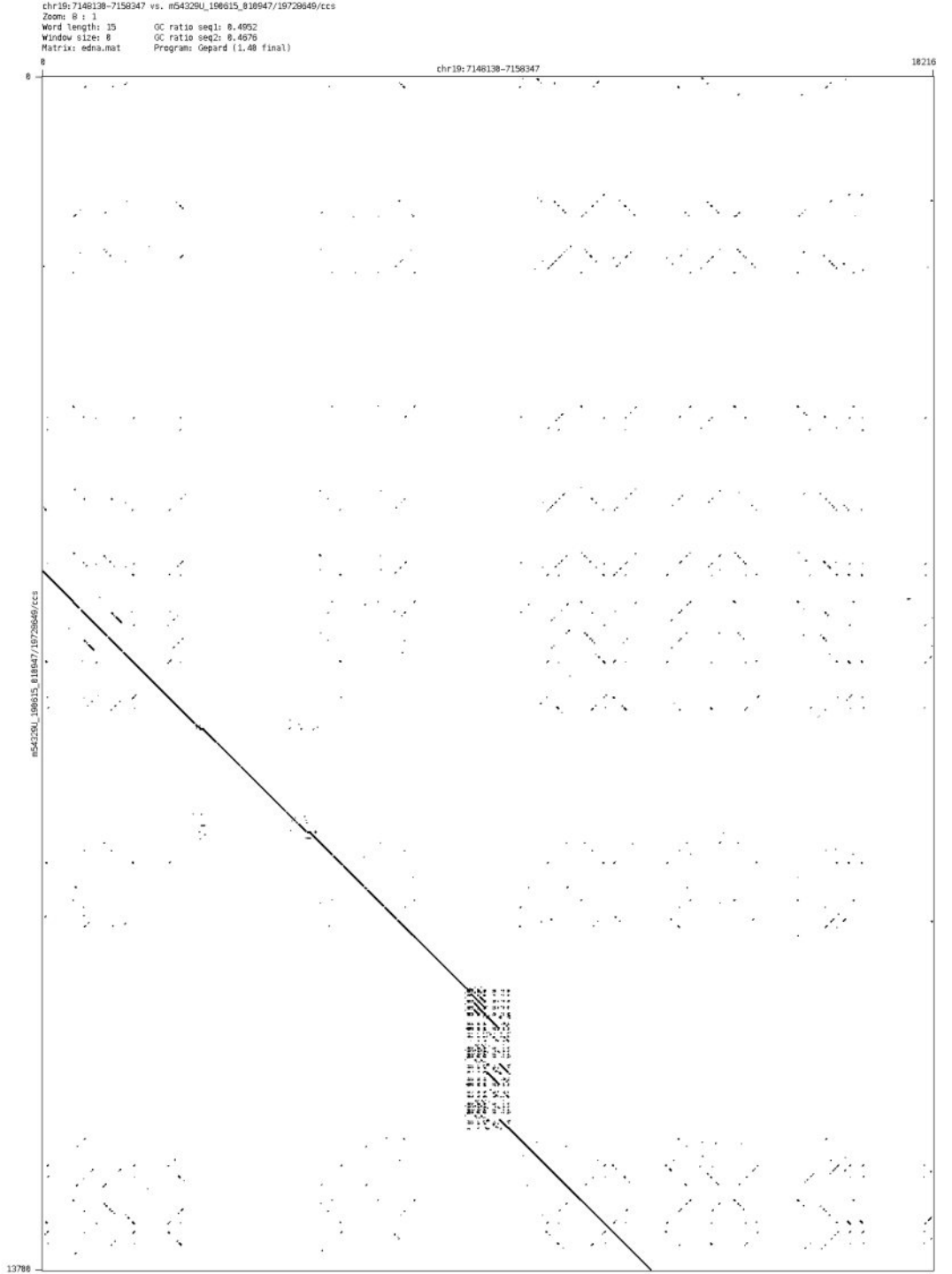
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➤ chr19\_6070065\_6070188

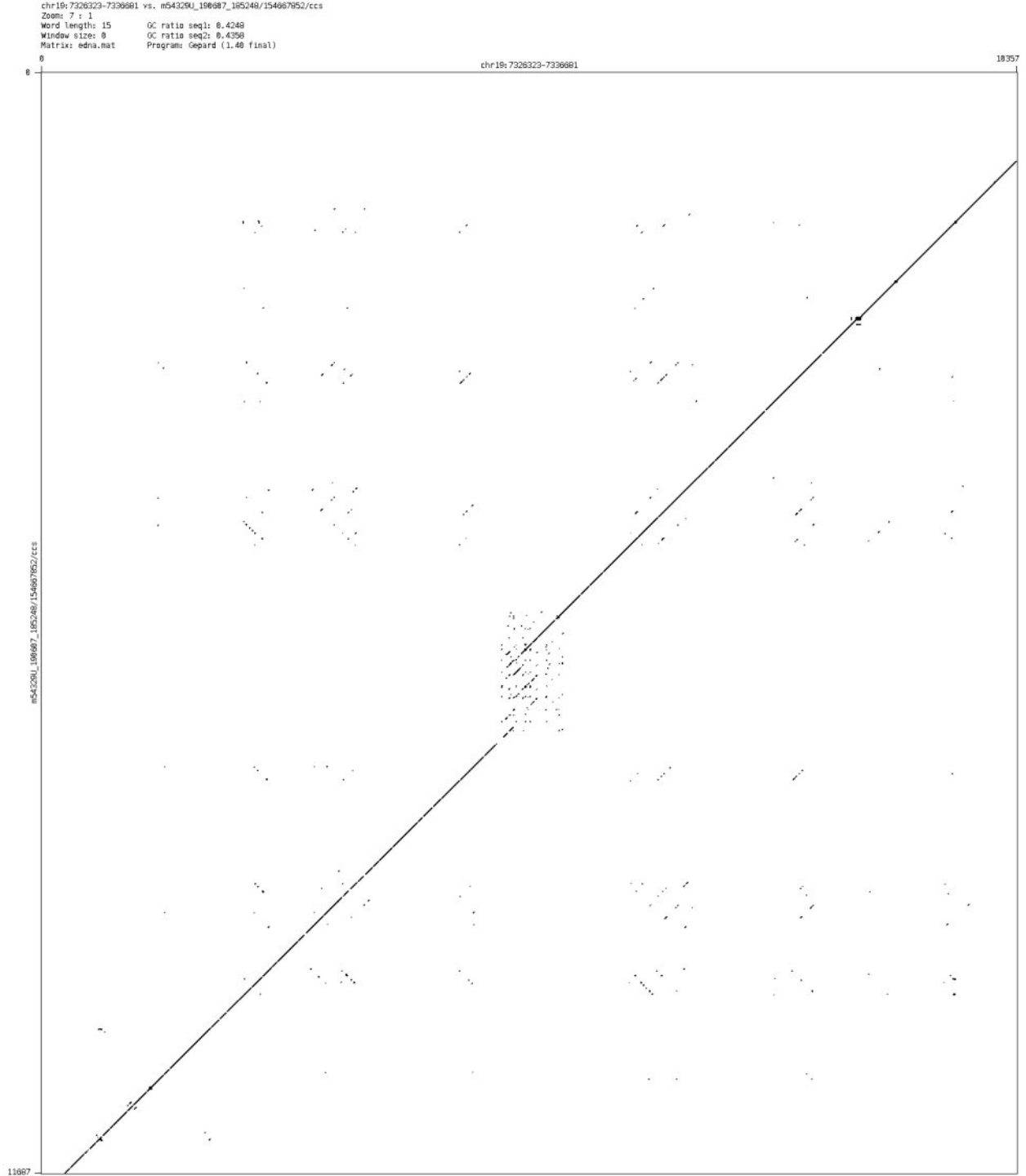


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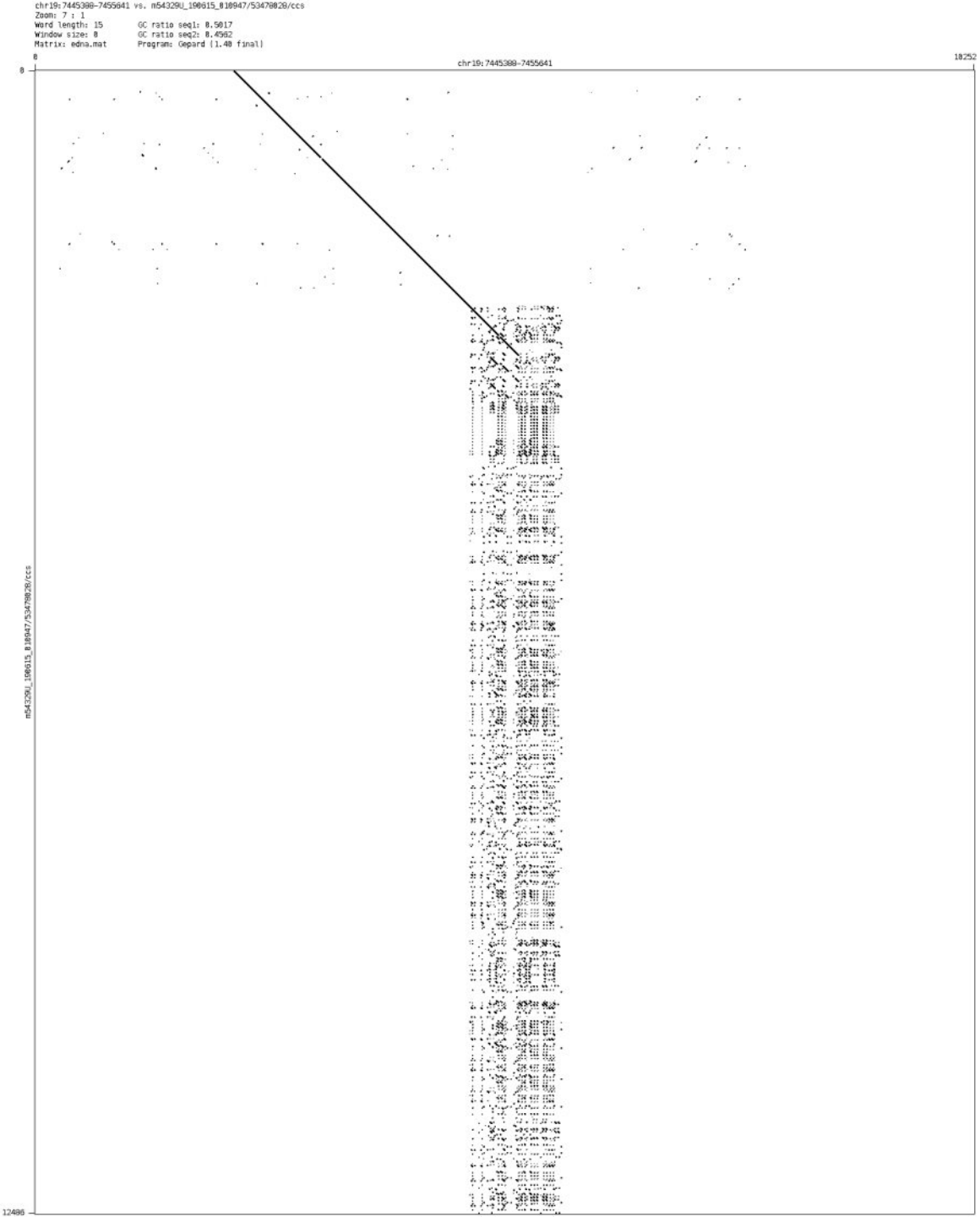




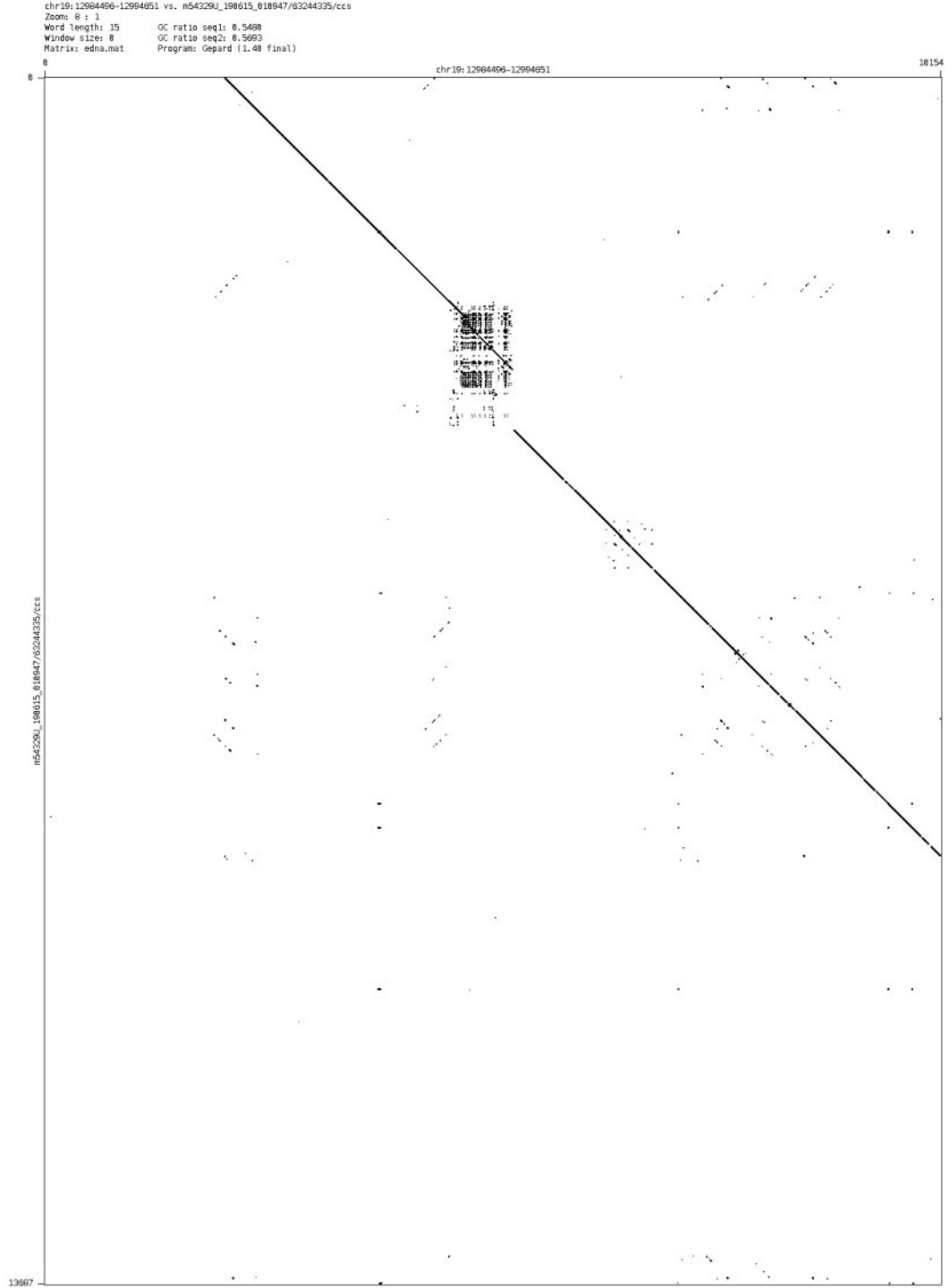
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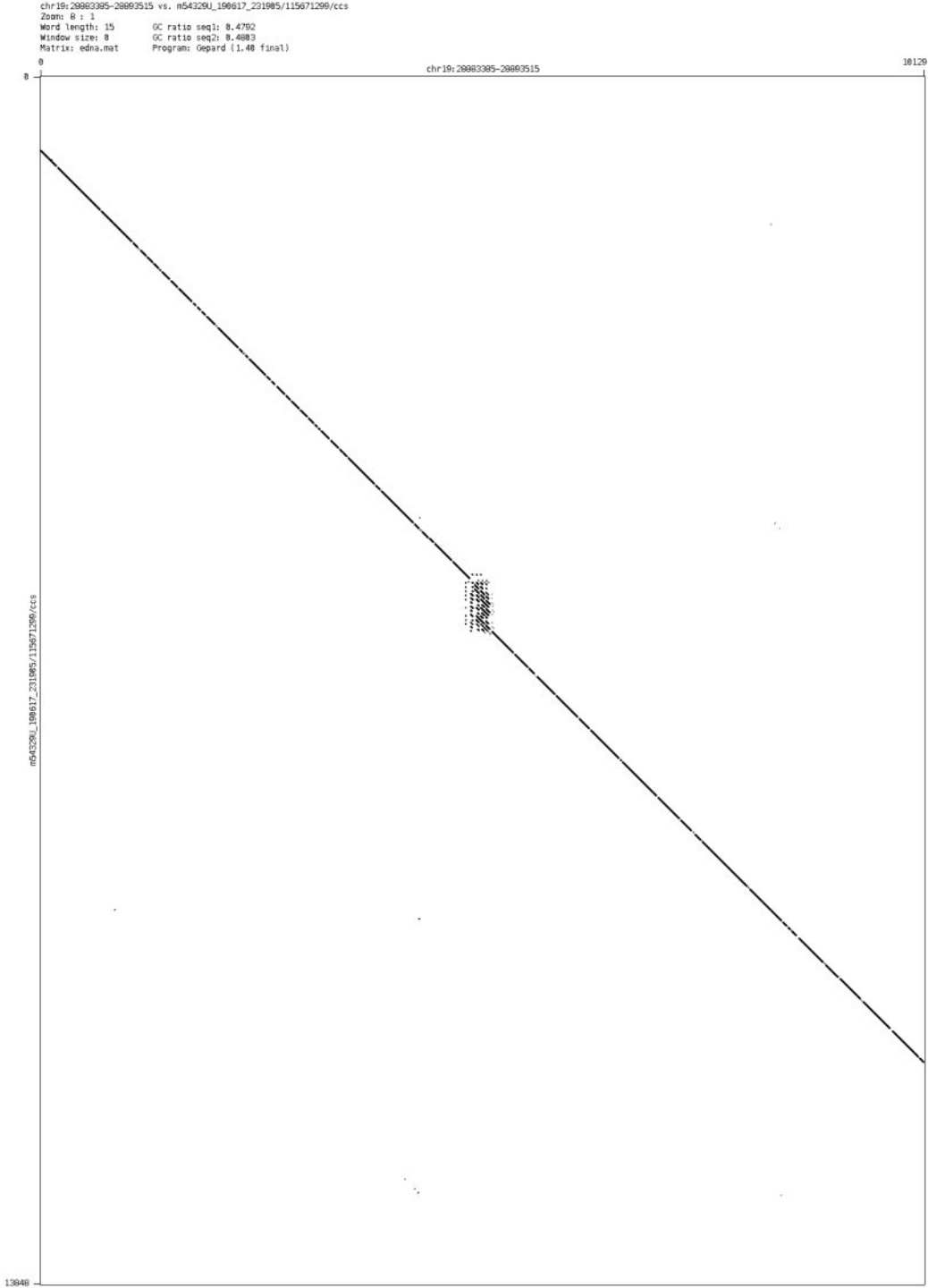
➤ chr19\_7450388\_7450641



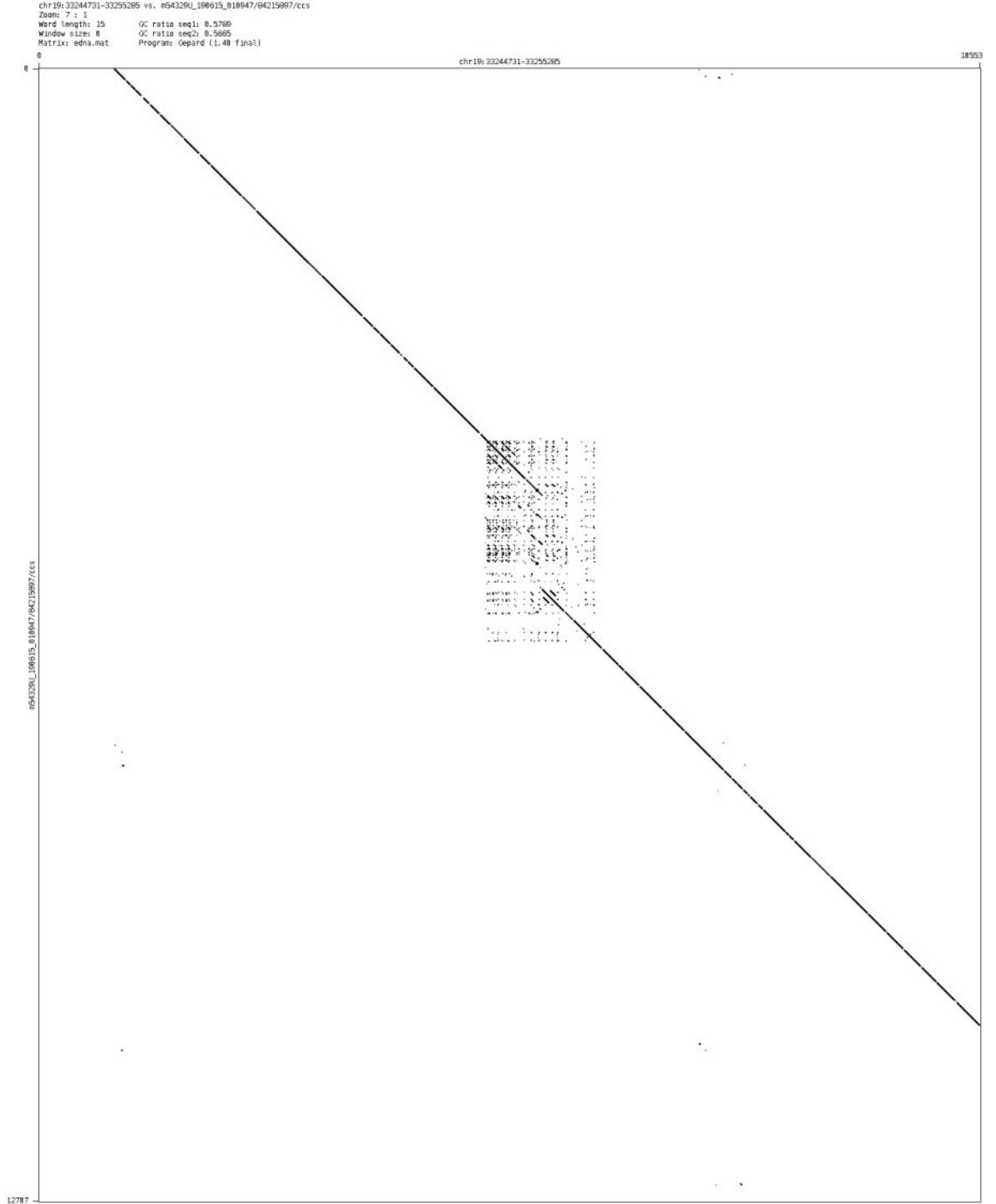
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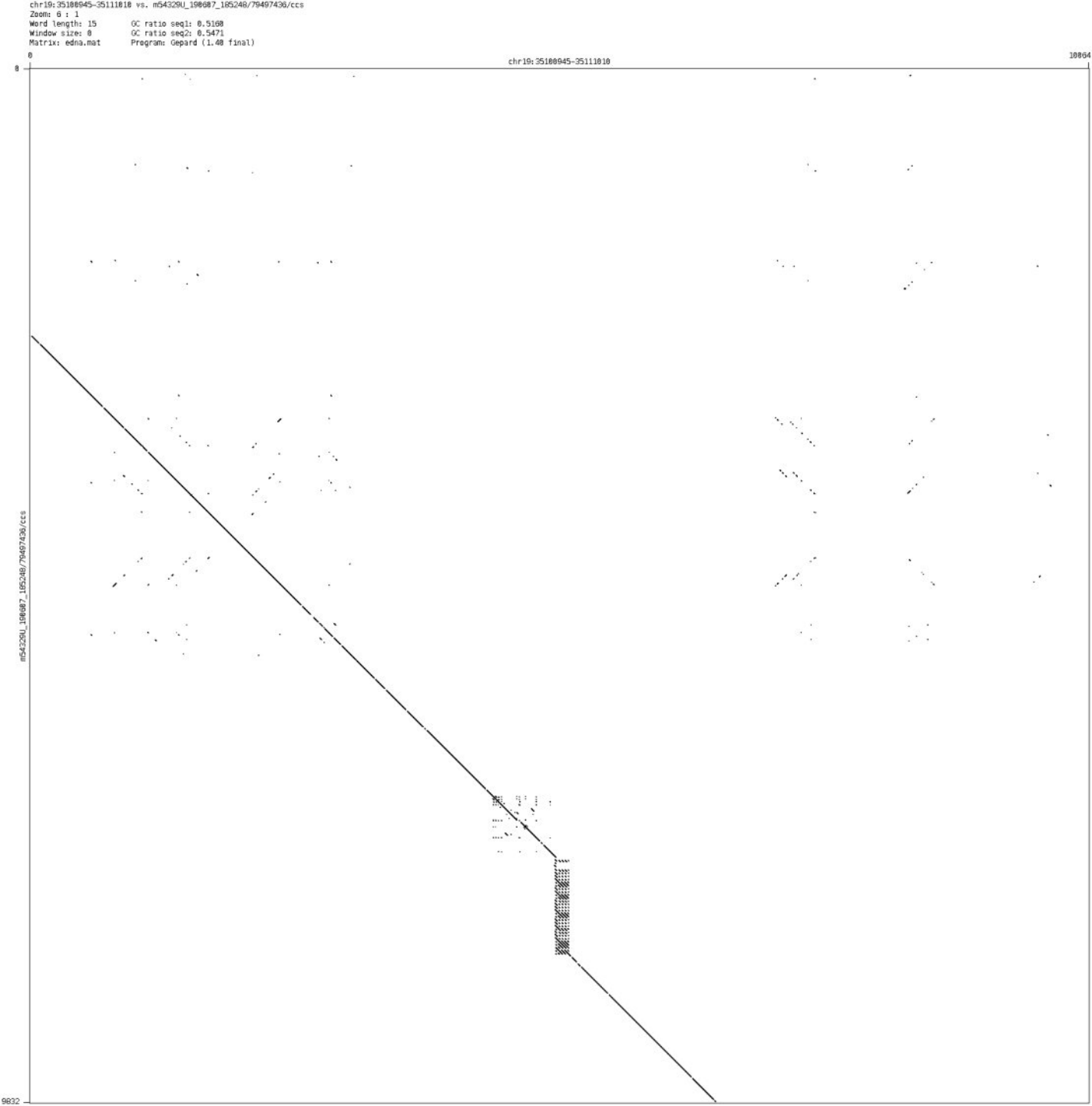
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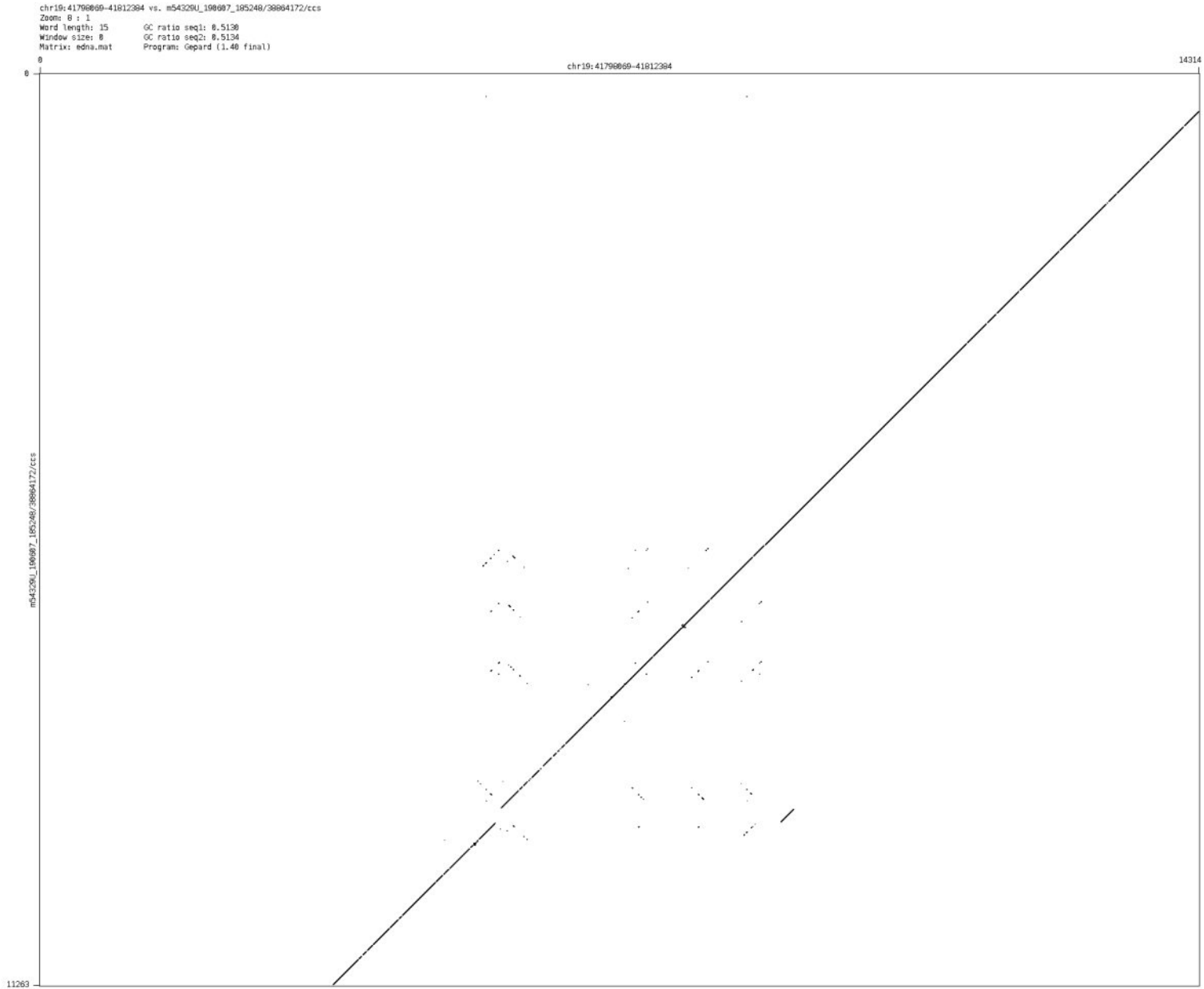
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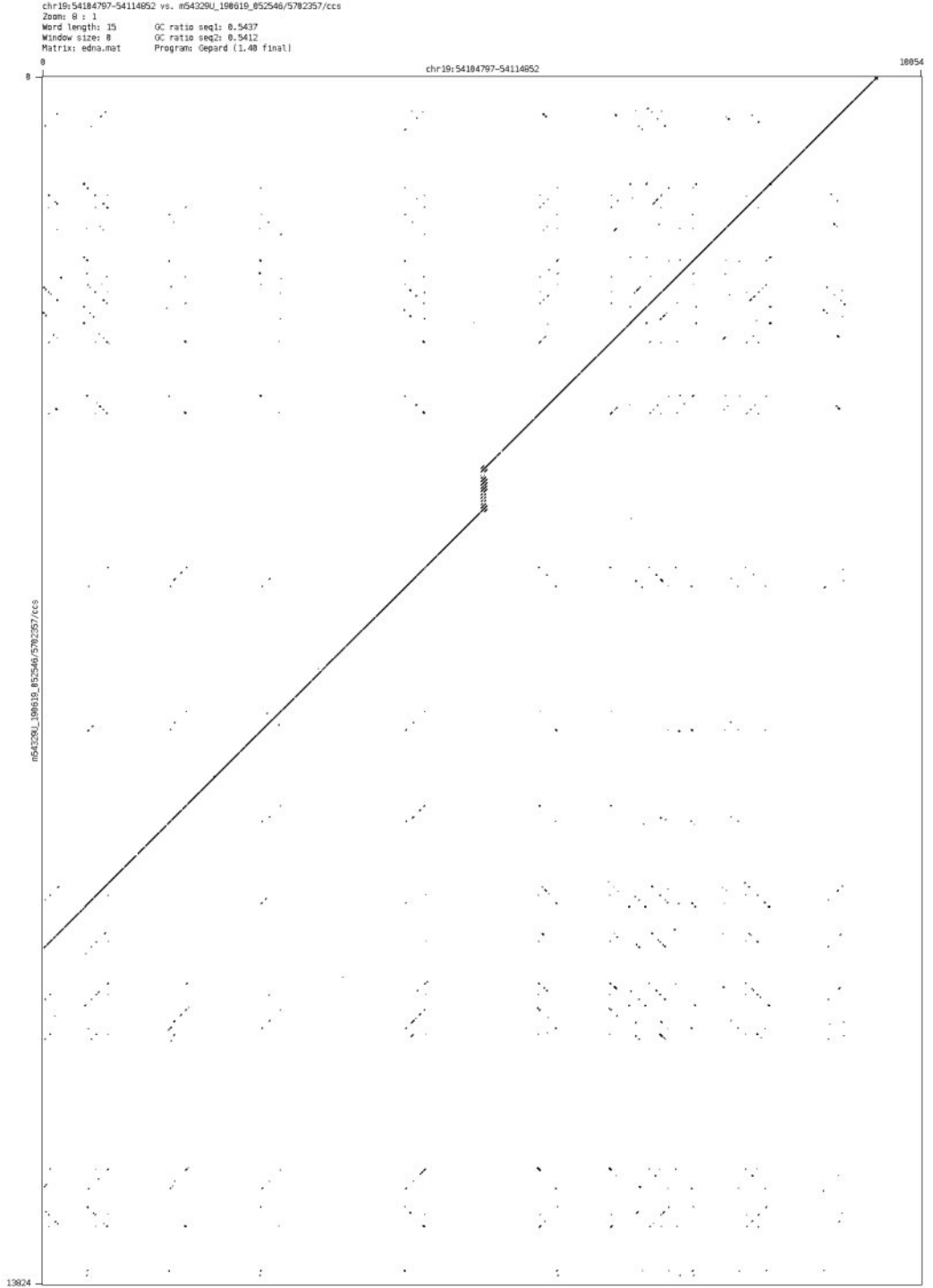
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➤ chr19\_41803069\_41807384

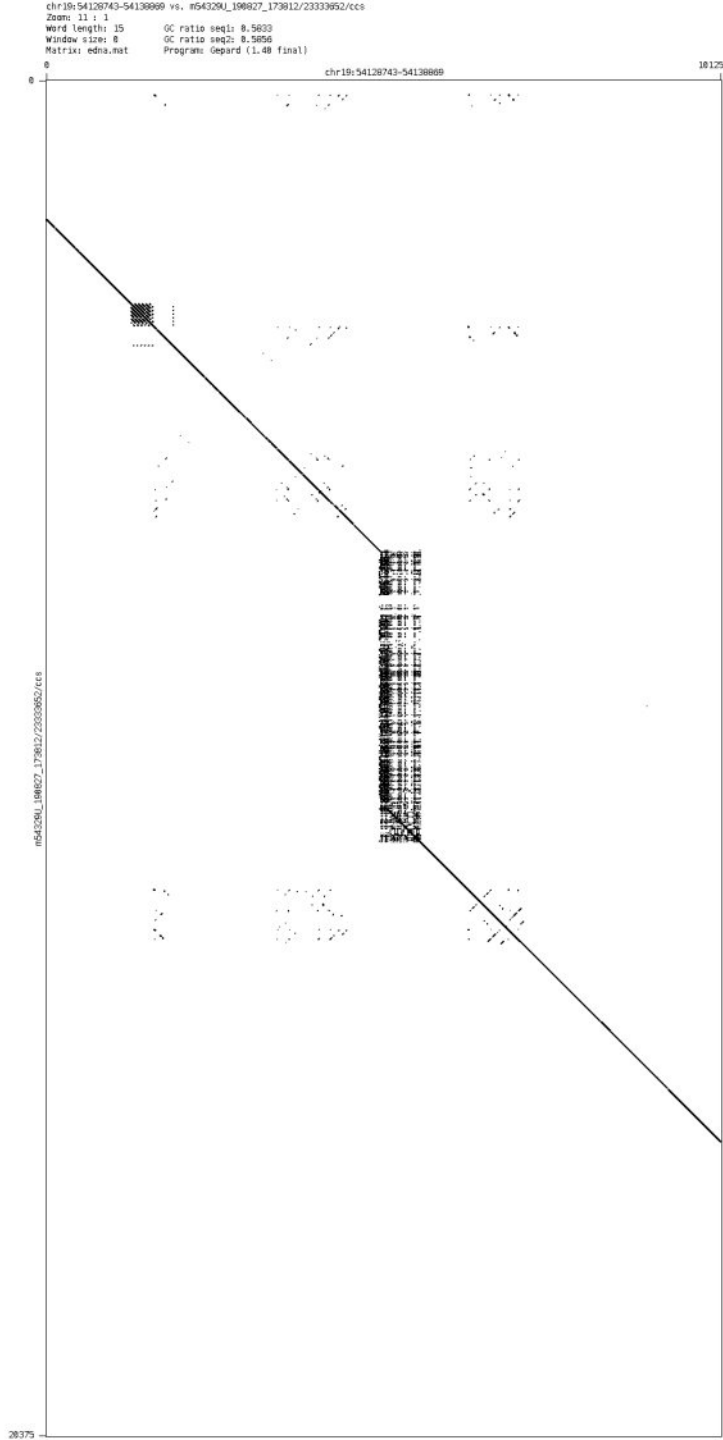


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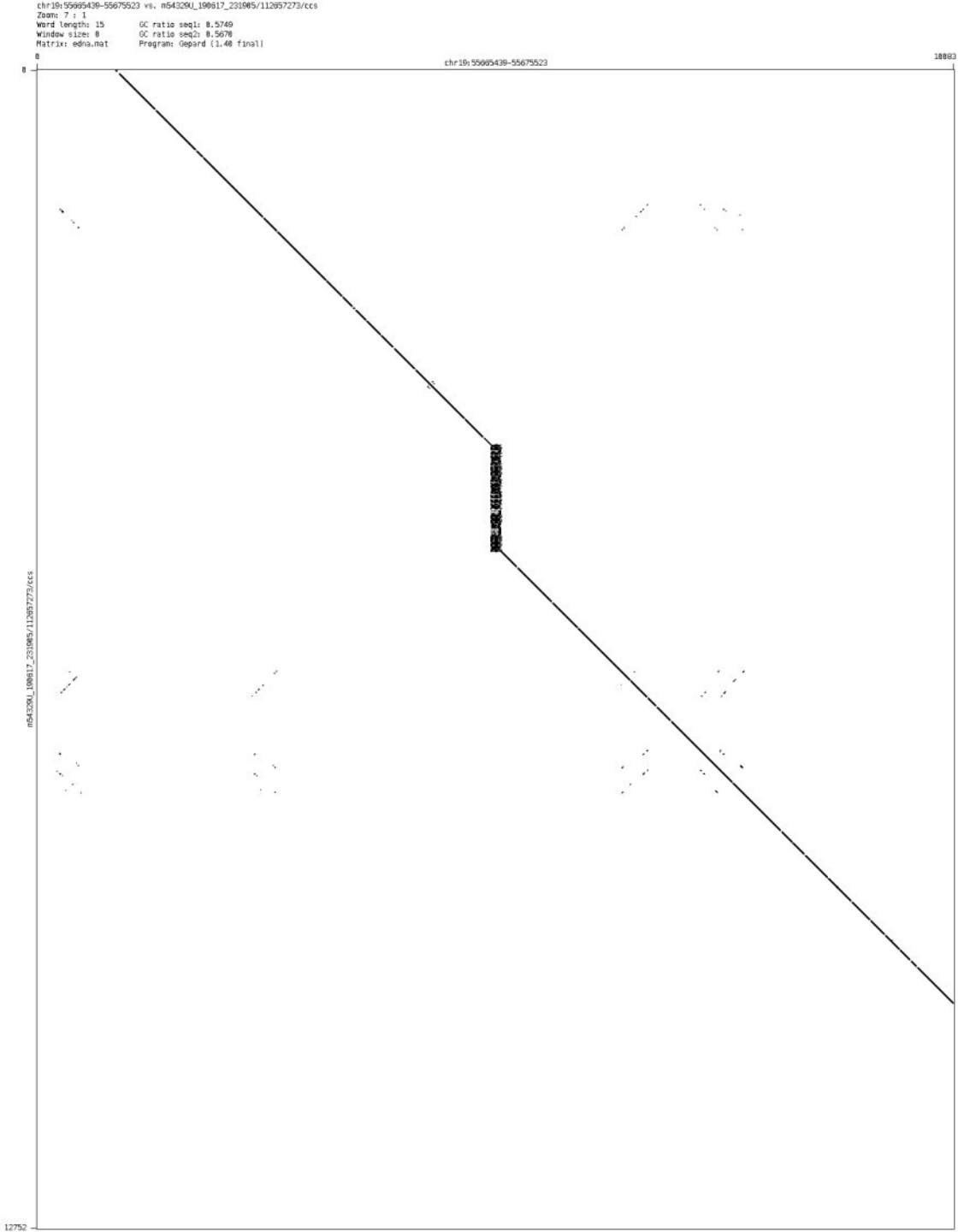




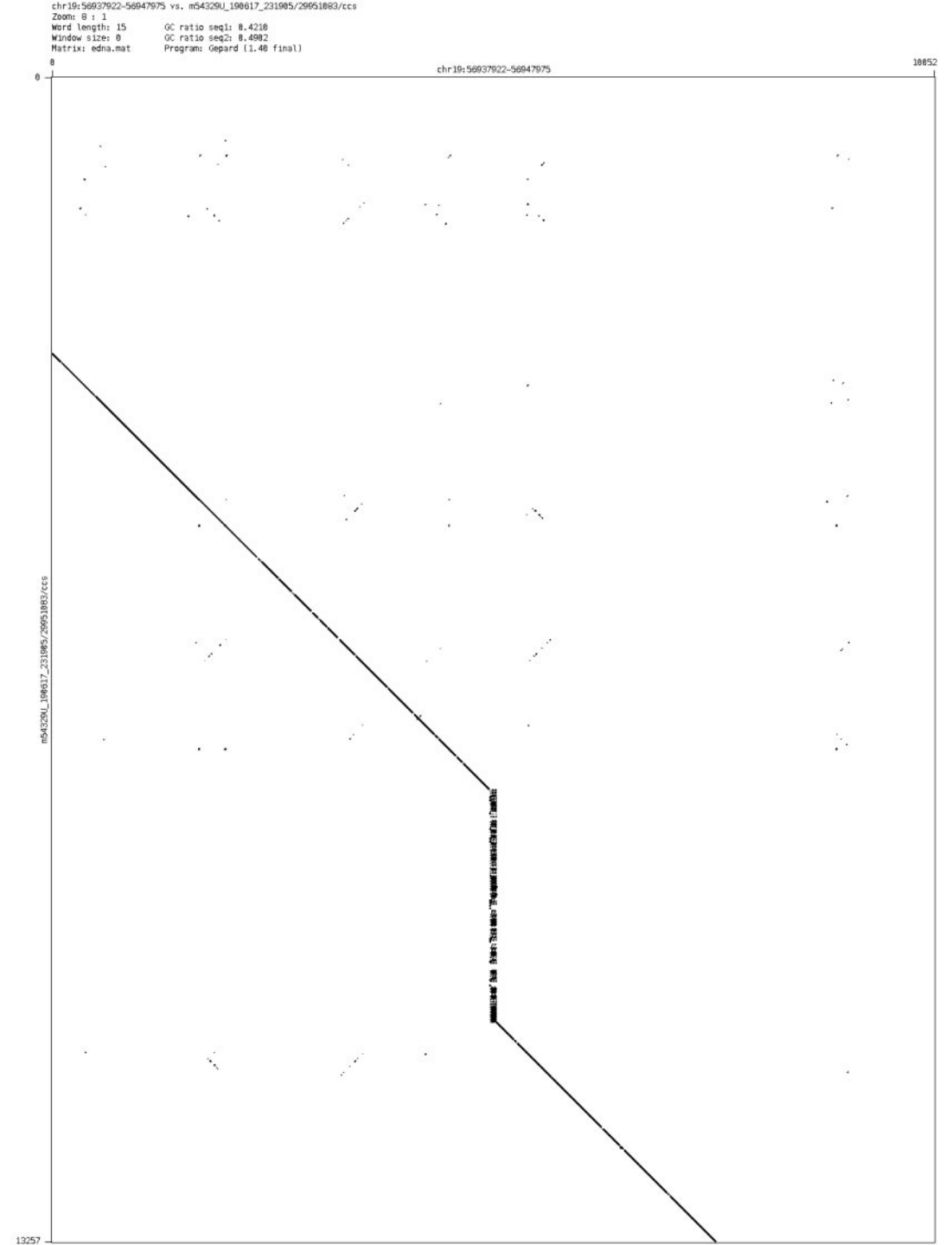
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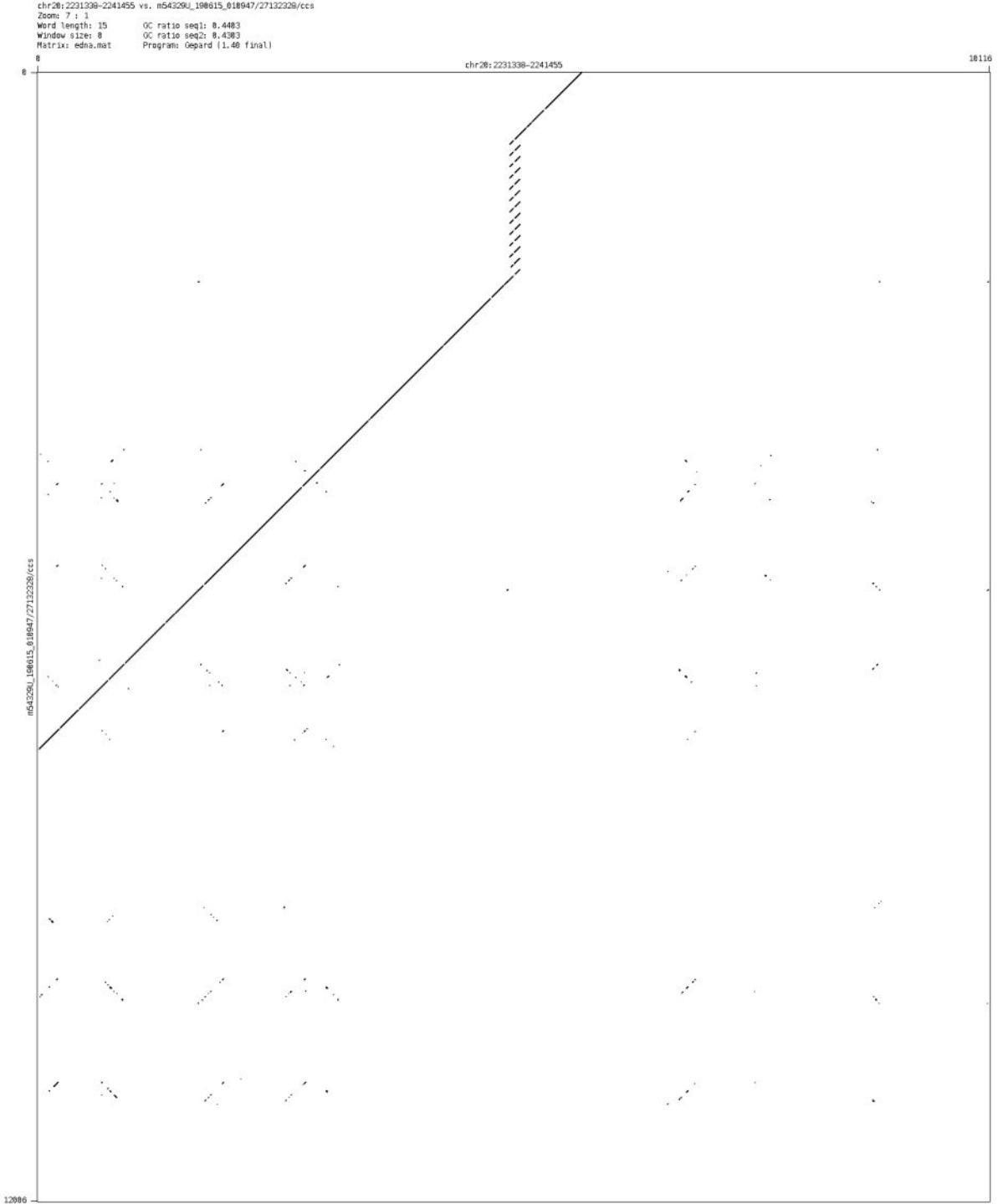
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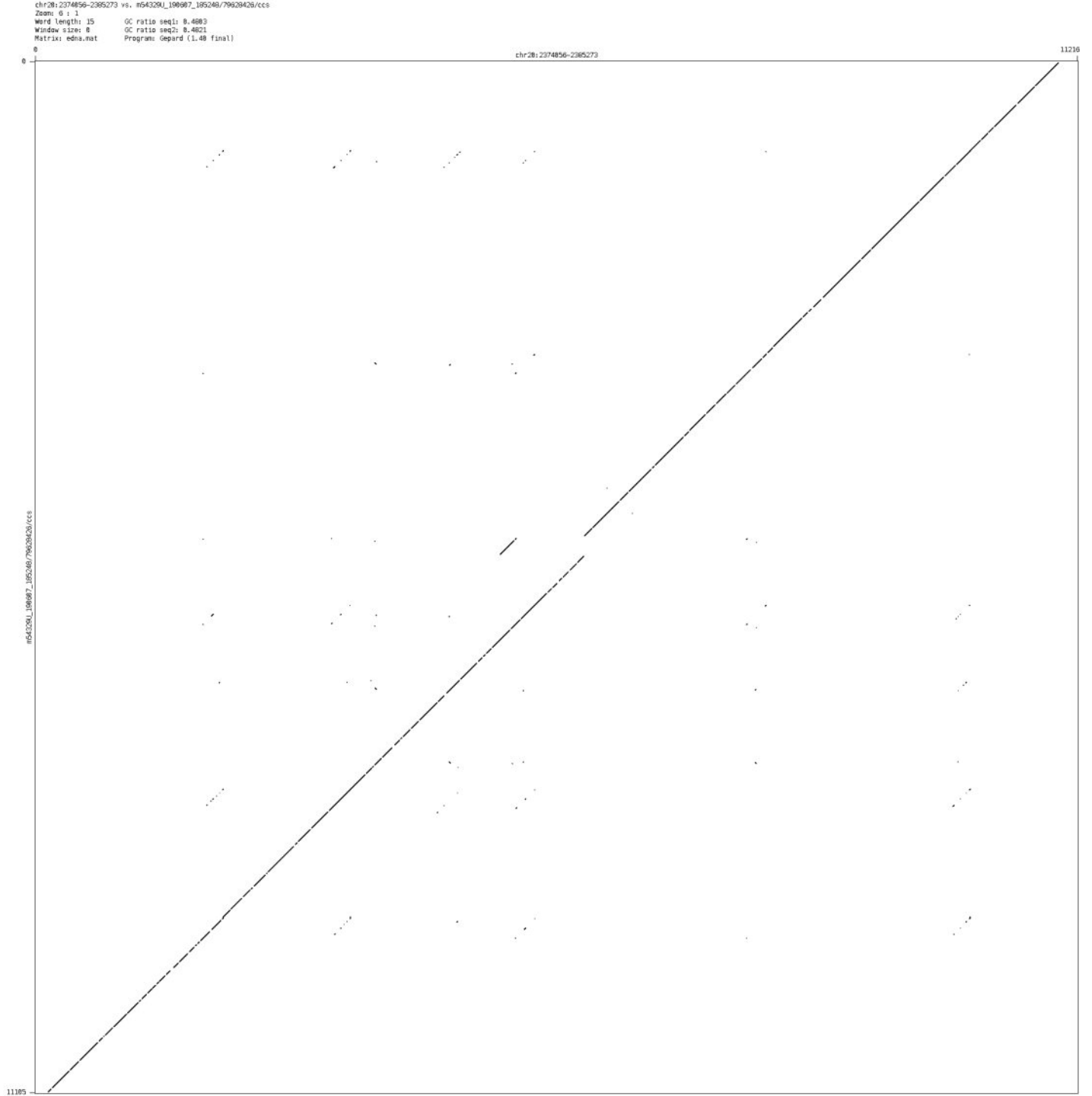
➤ chr19\_56942922\_56942975



➤ chr20\_2236338\_2236455

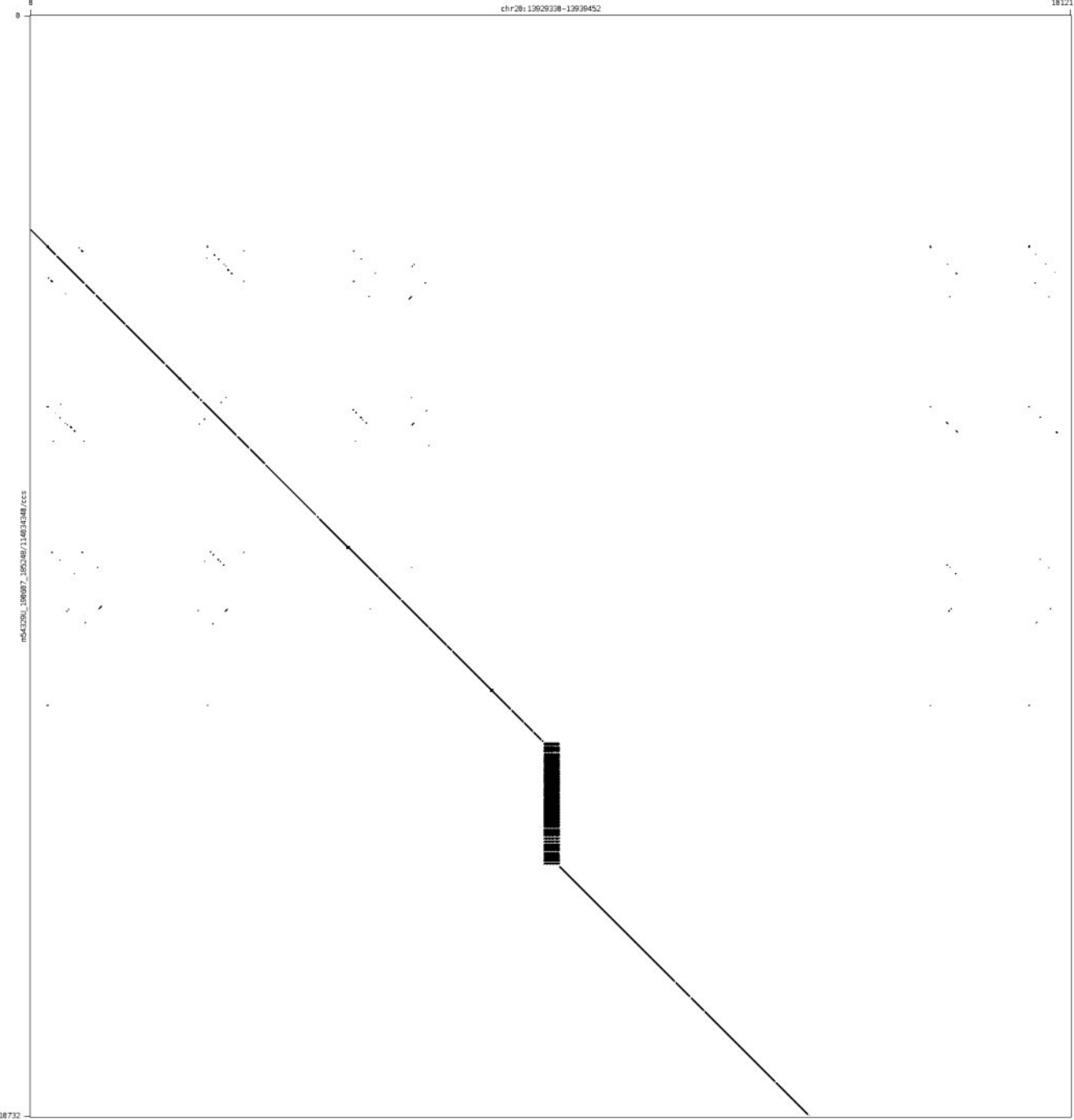


➤ chr20\_2379056\_2380273

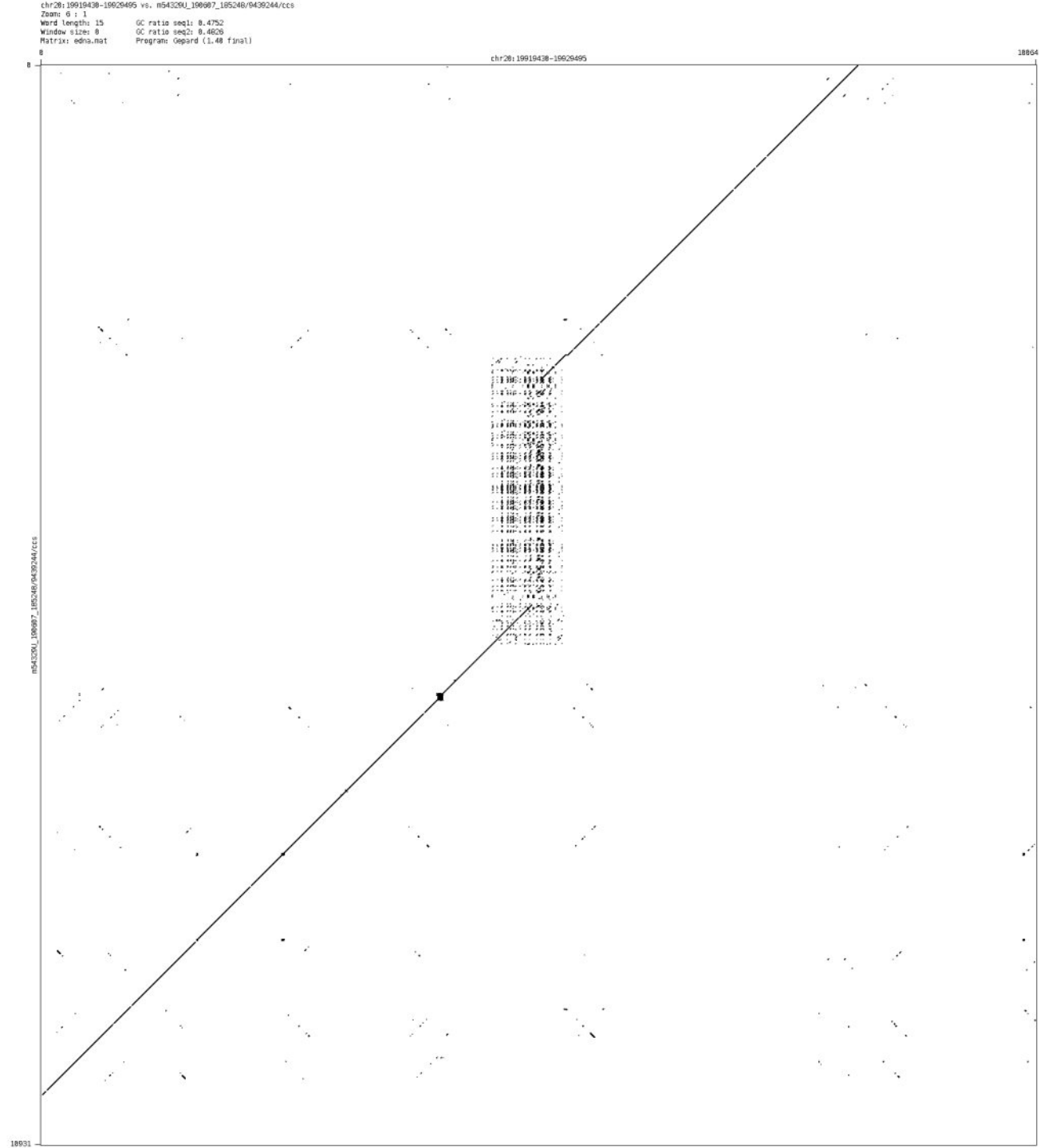


➤ chr20\_13934330\_13934452

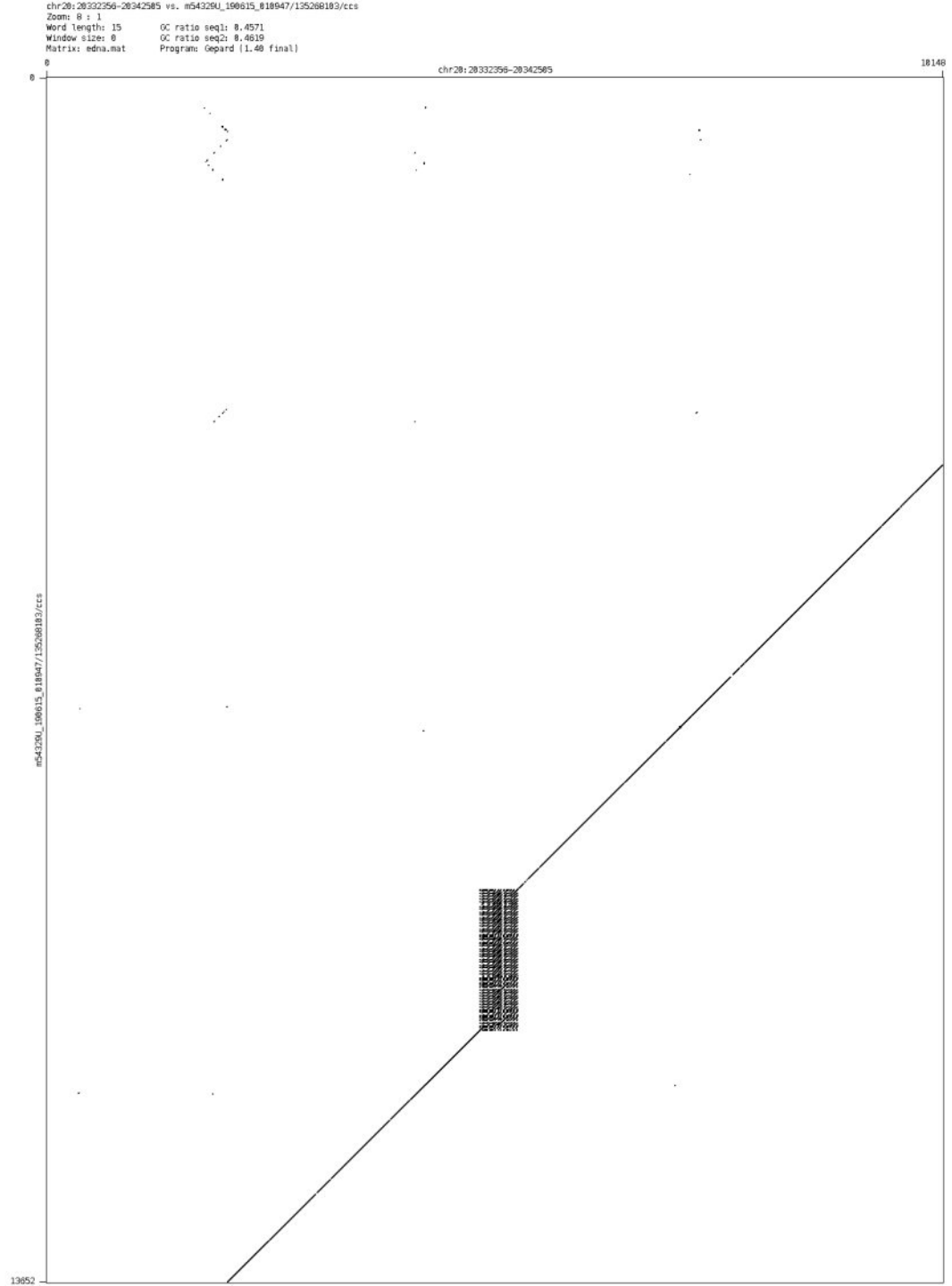
chr20:13029338-13934452 vs. n54329L150897.185248/114834348/ccs  
Zbin: 0 : 1 GC ratio seq1: 0.4869  
Ward length: 15 GC ratio seq2: 0.3738  
Window size: 0  
Matrix: edna.mat Program: gepard (1.48 final)



➤ chr20\_19924430\_19924495

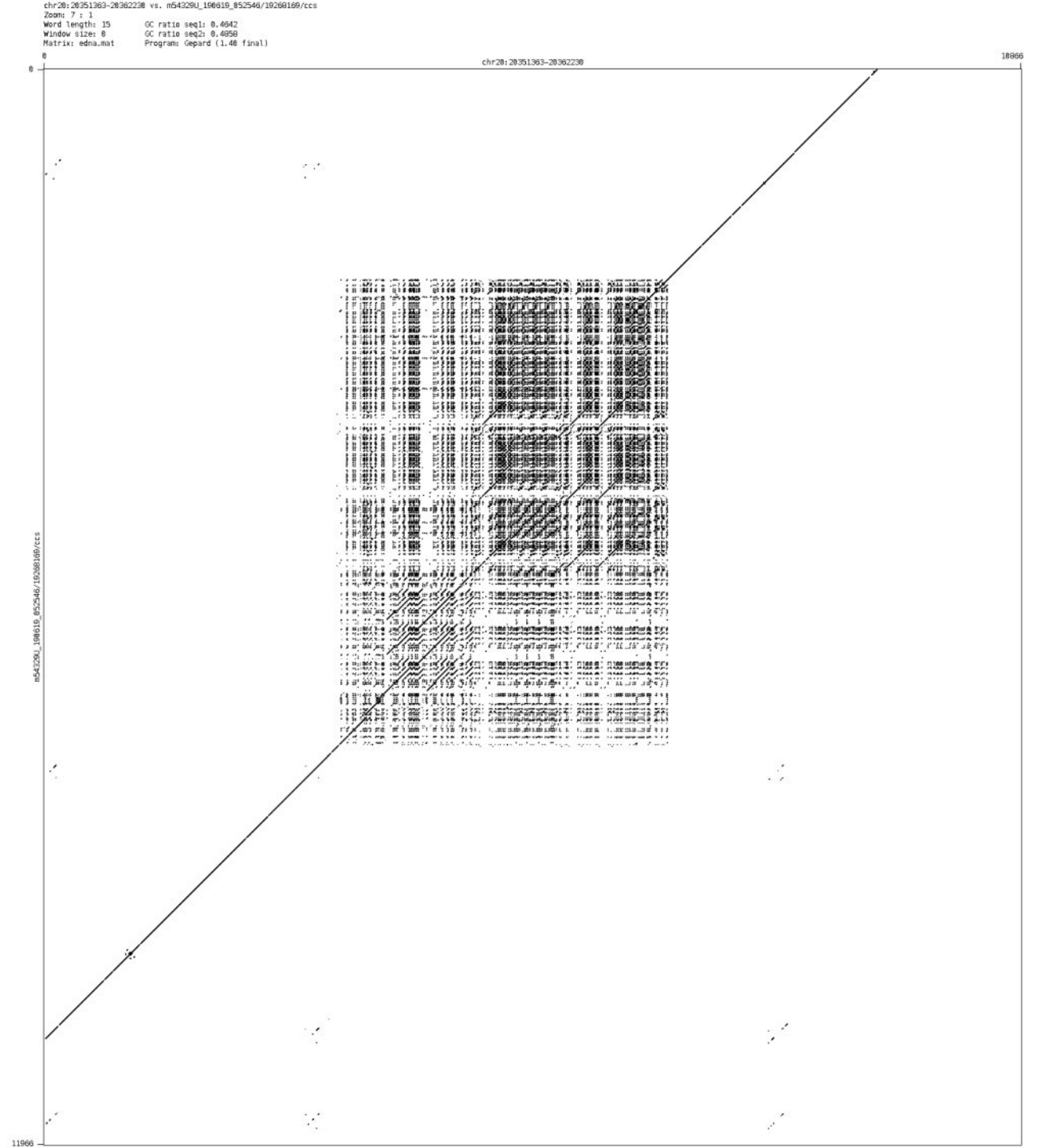


➤ chr20\_20337356\_20337505

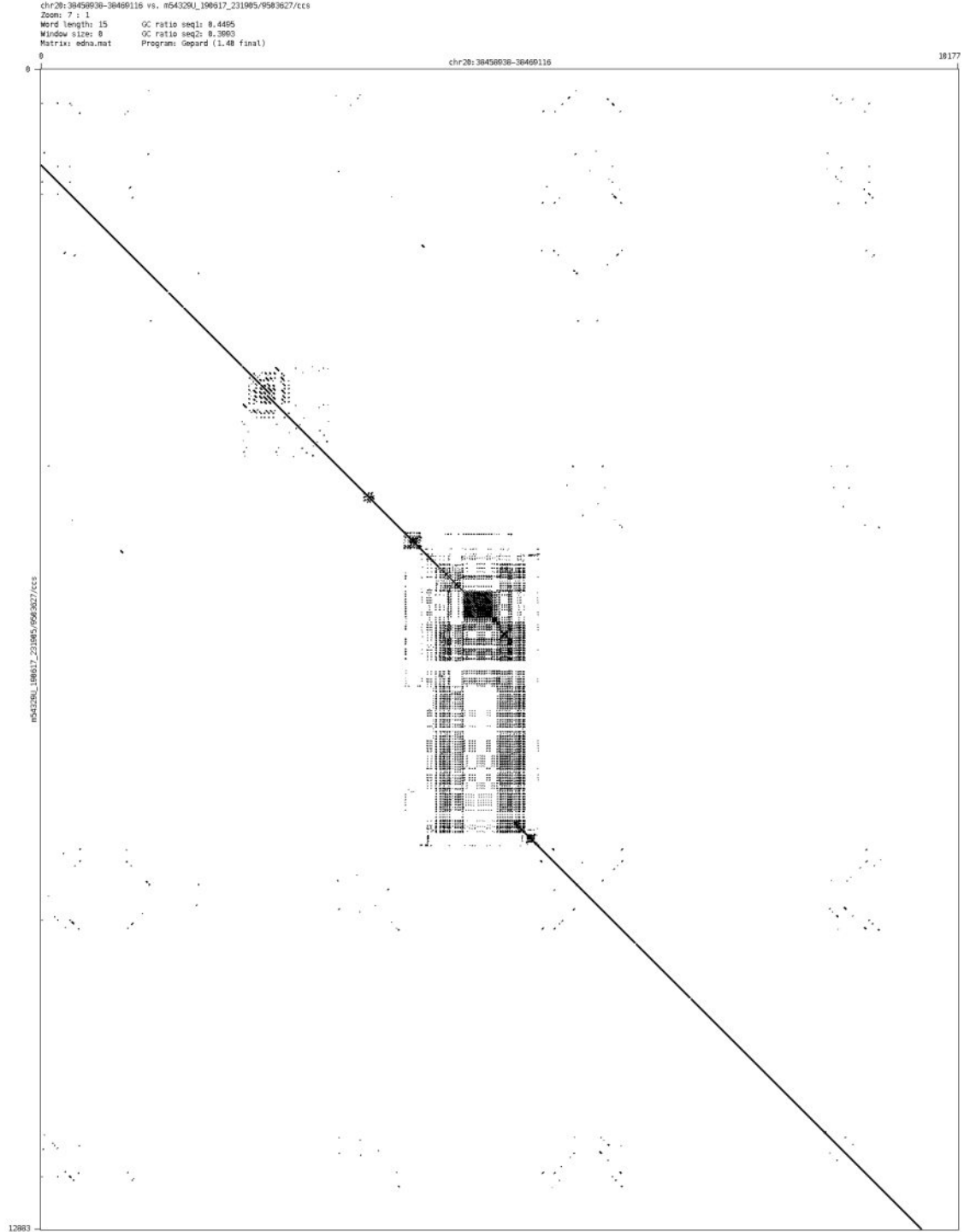




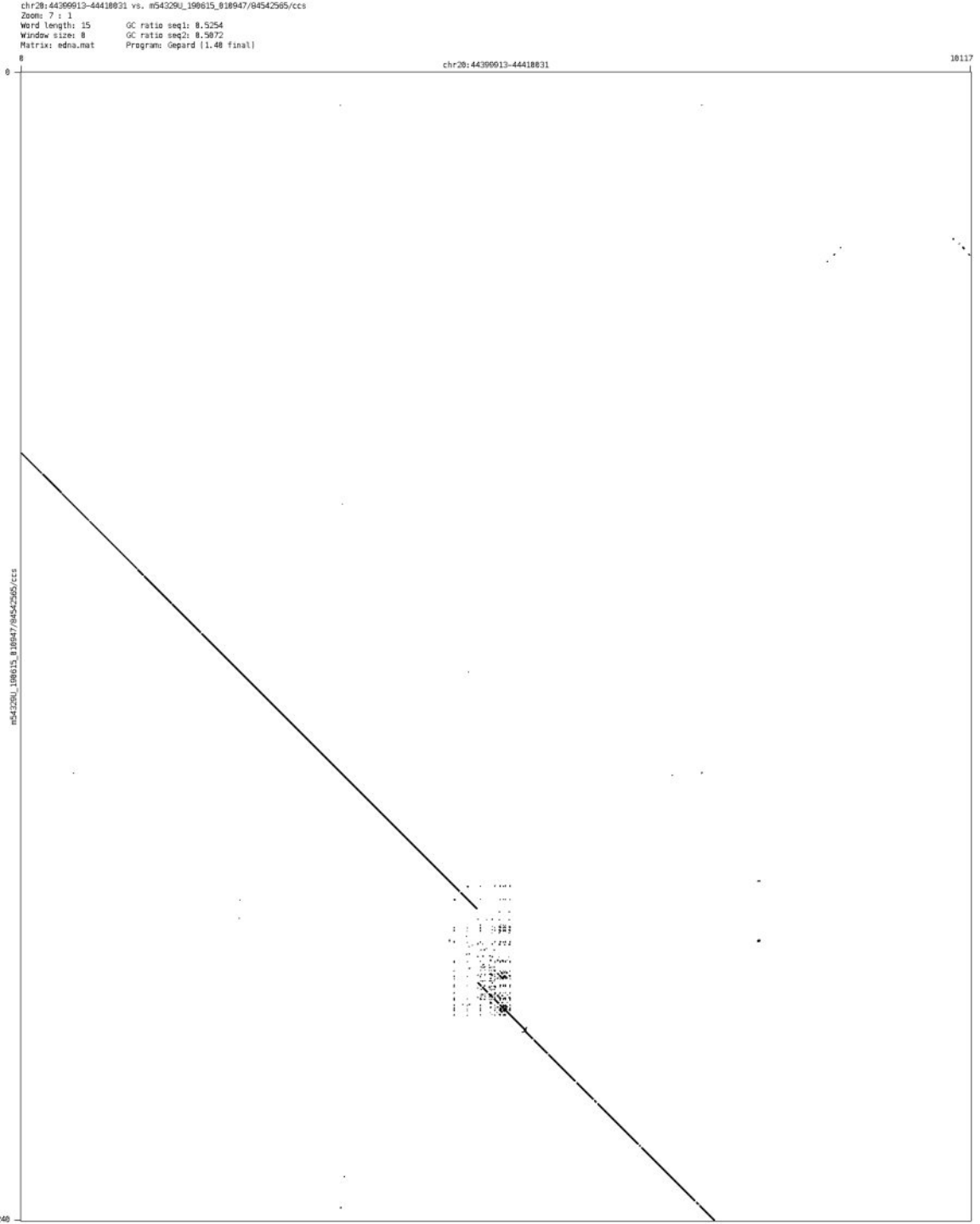
➤ chr20\_20356363\_20357230



➤ chr20\_38463938\_38464116



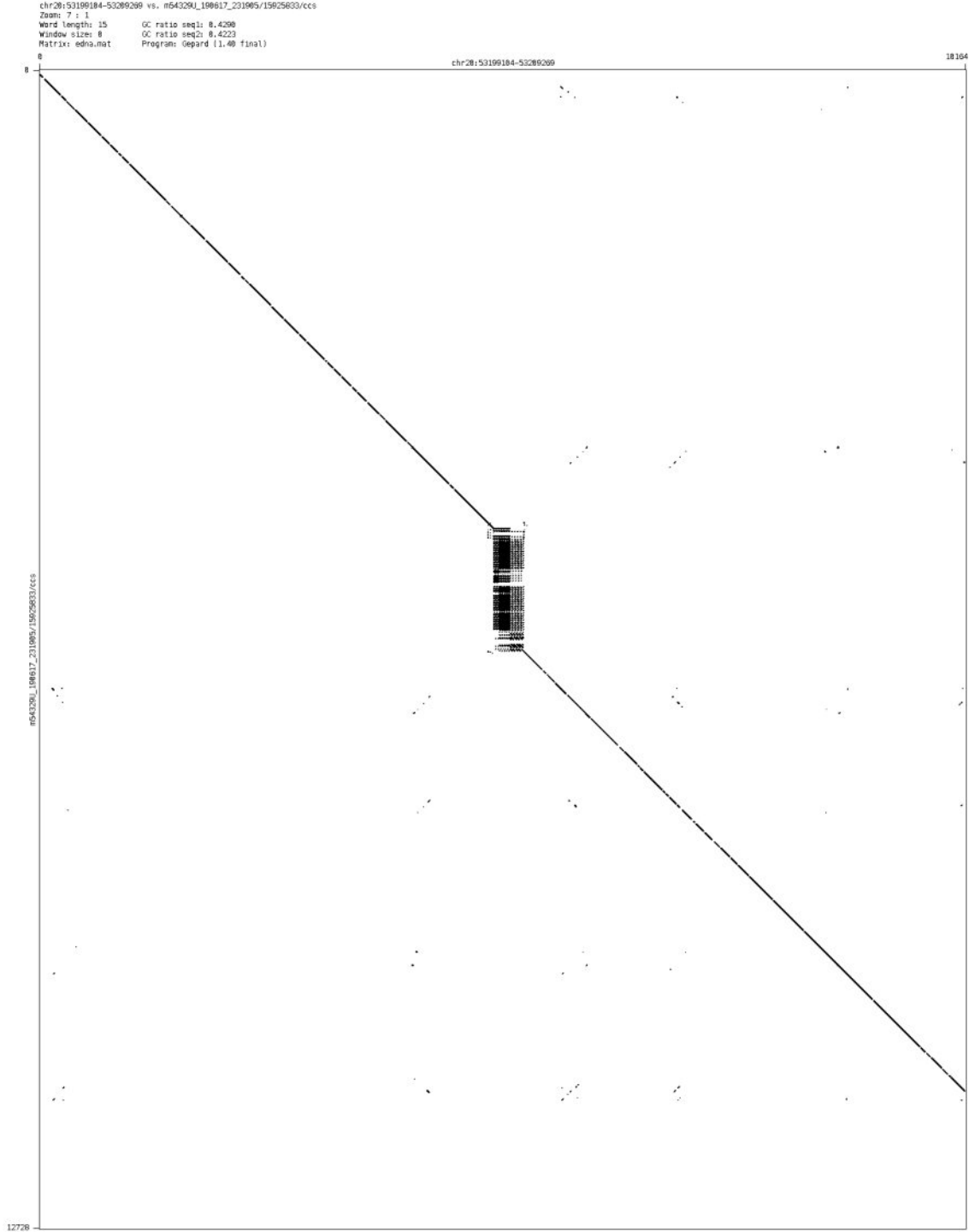
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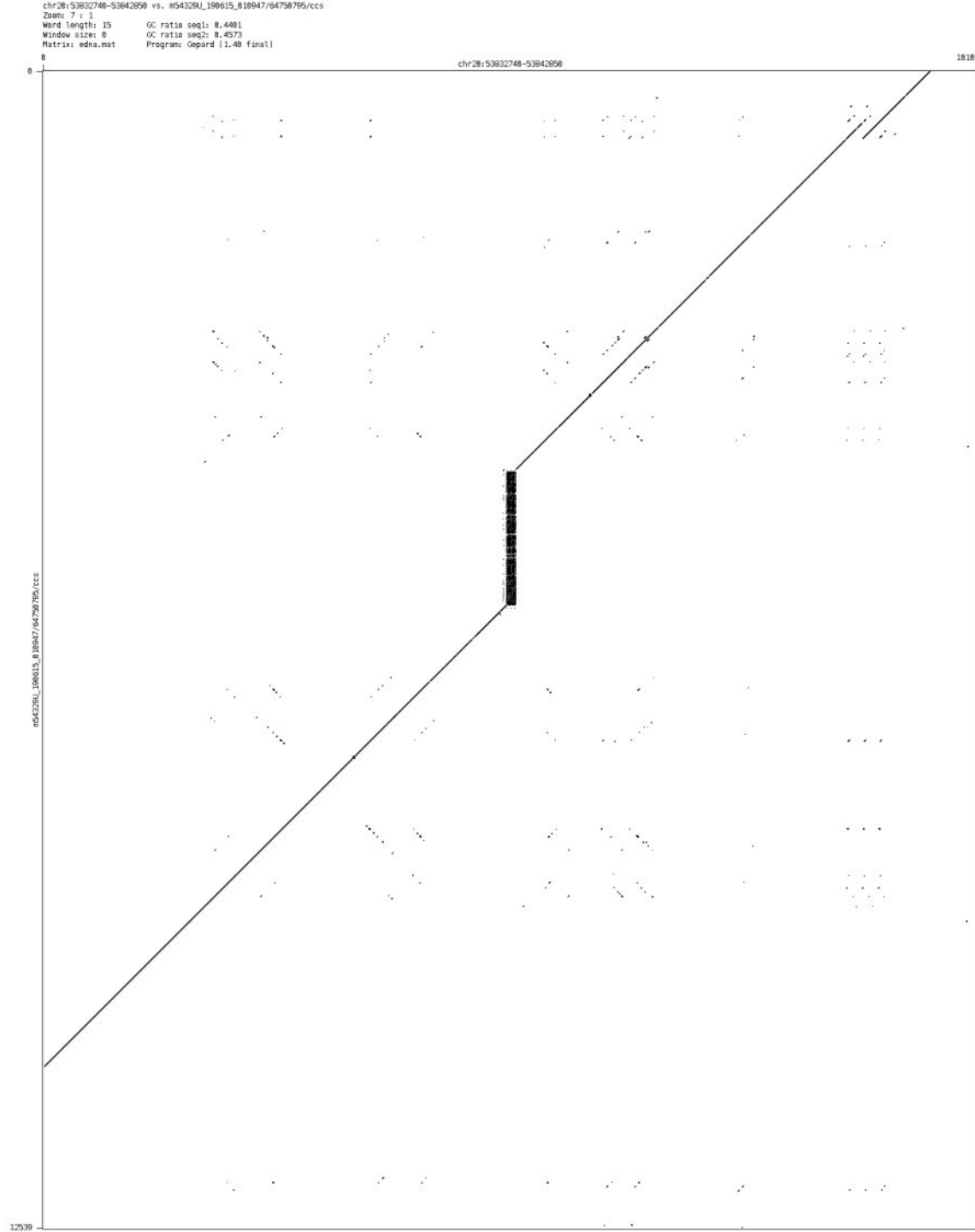
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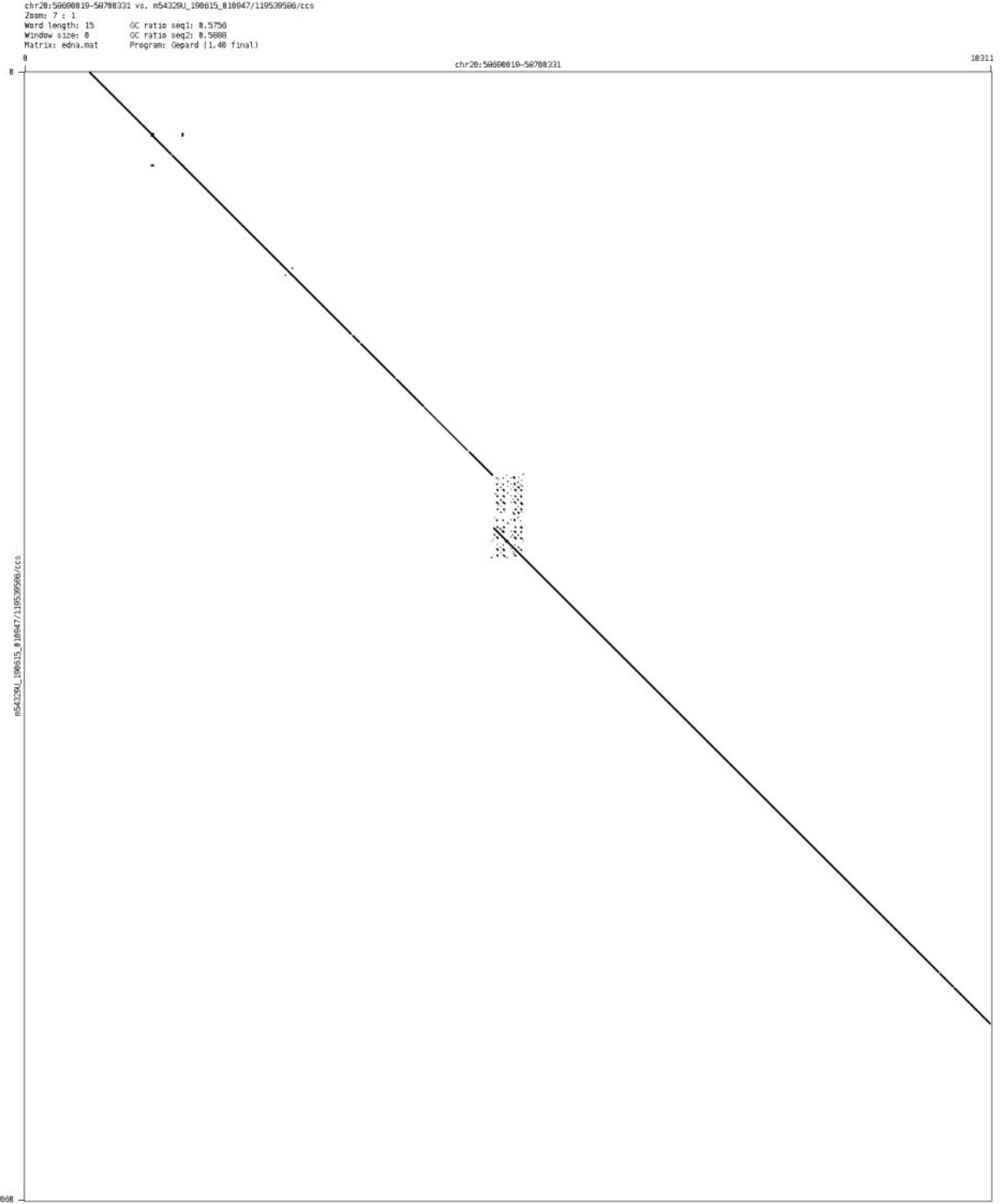
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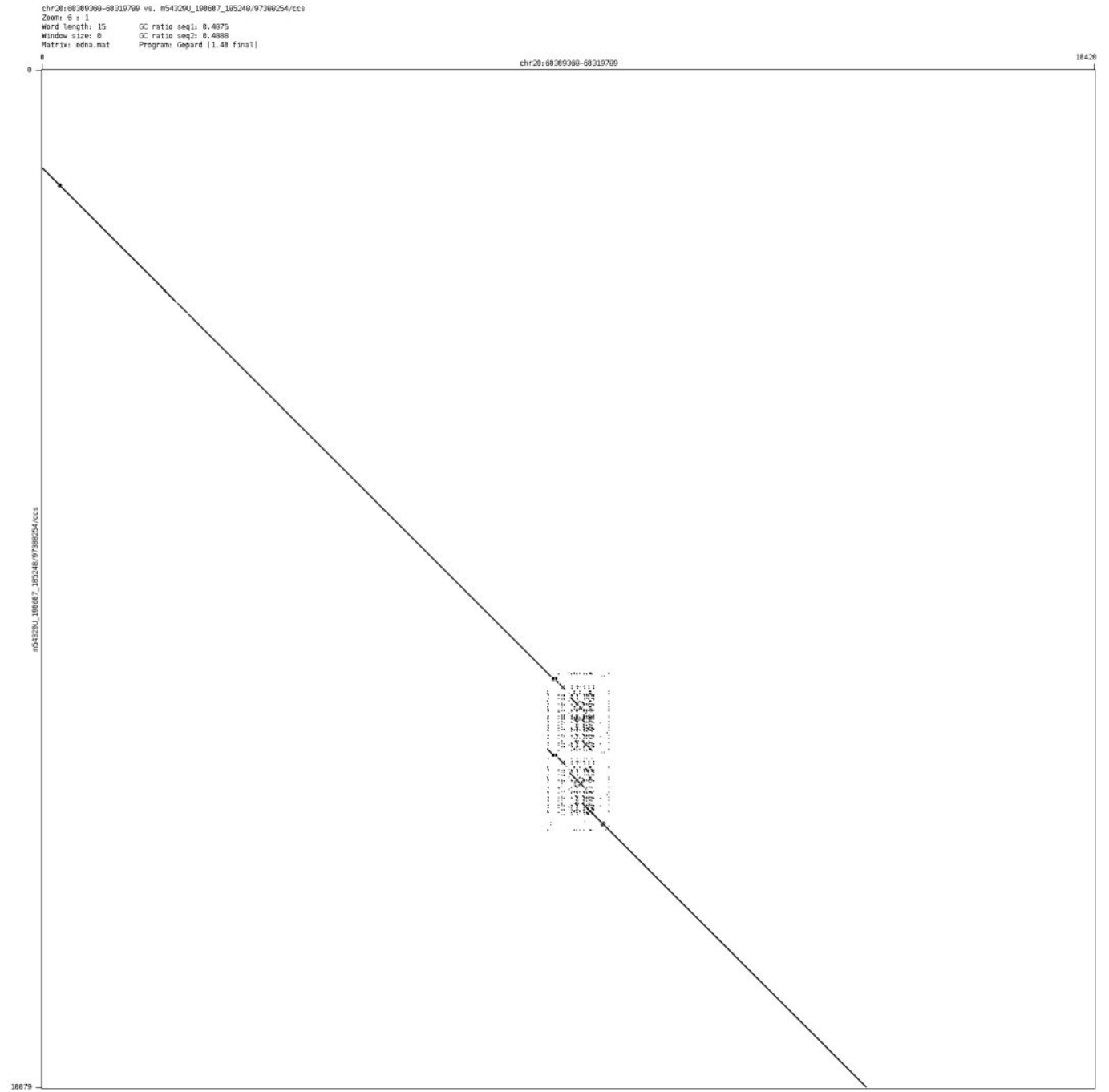
➤ chr20\_53837740\_53837850



➤ chr20\_58695019\_58695331



➤ chr20\_60314368\_60314789



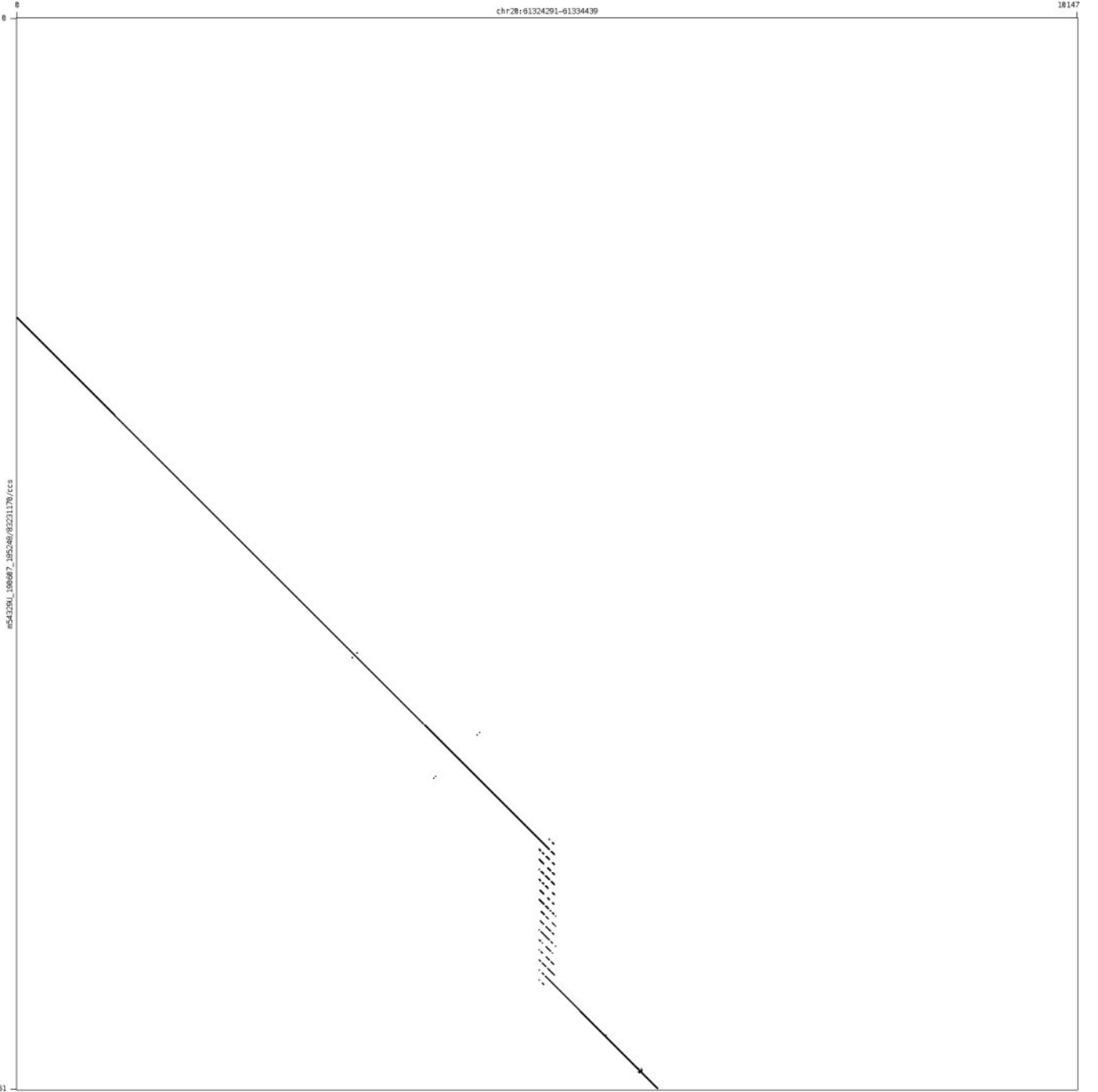


➤ chr20\_61202088\_61202234

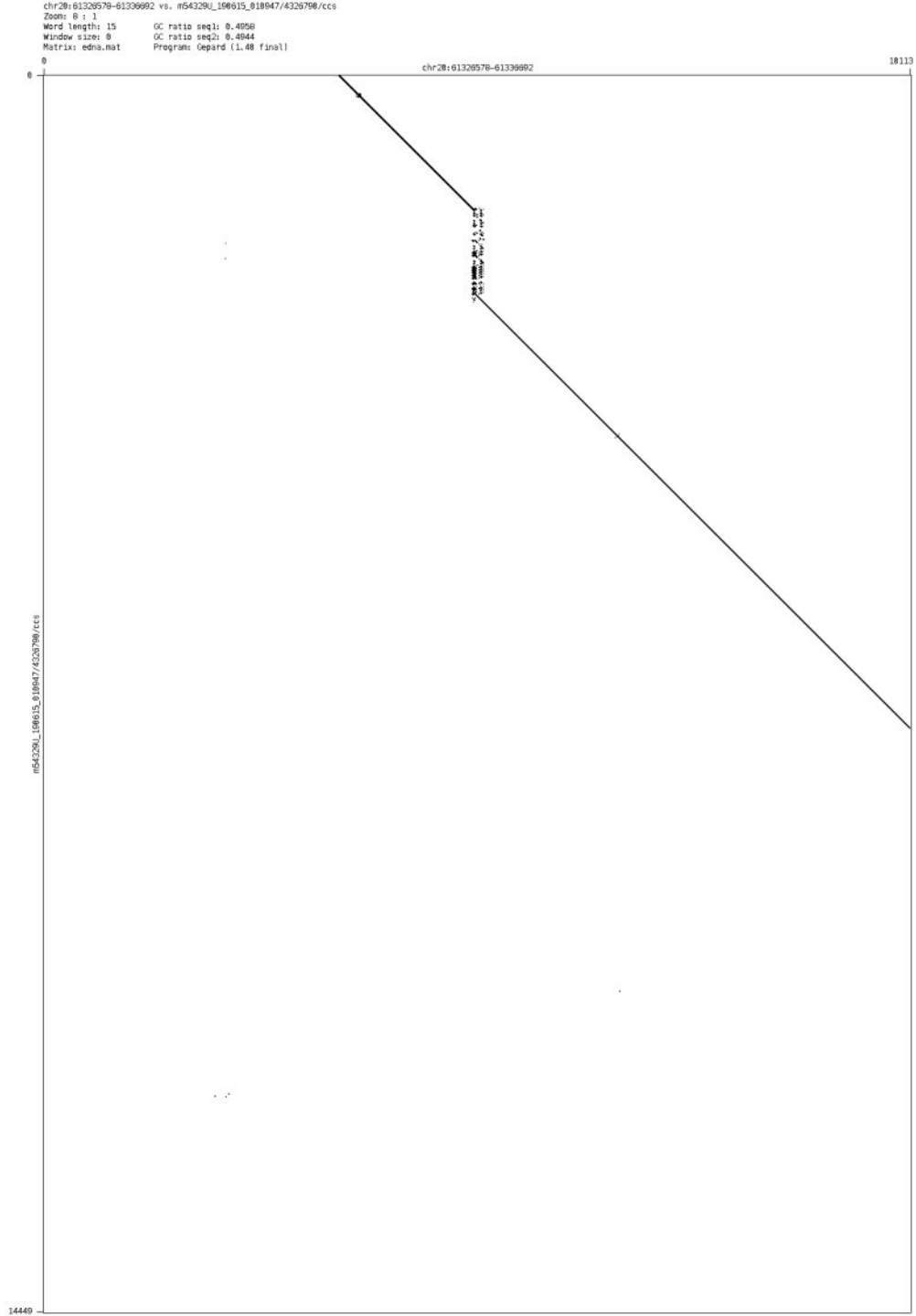


➤ chr20\_61329291\_61329439

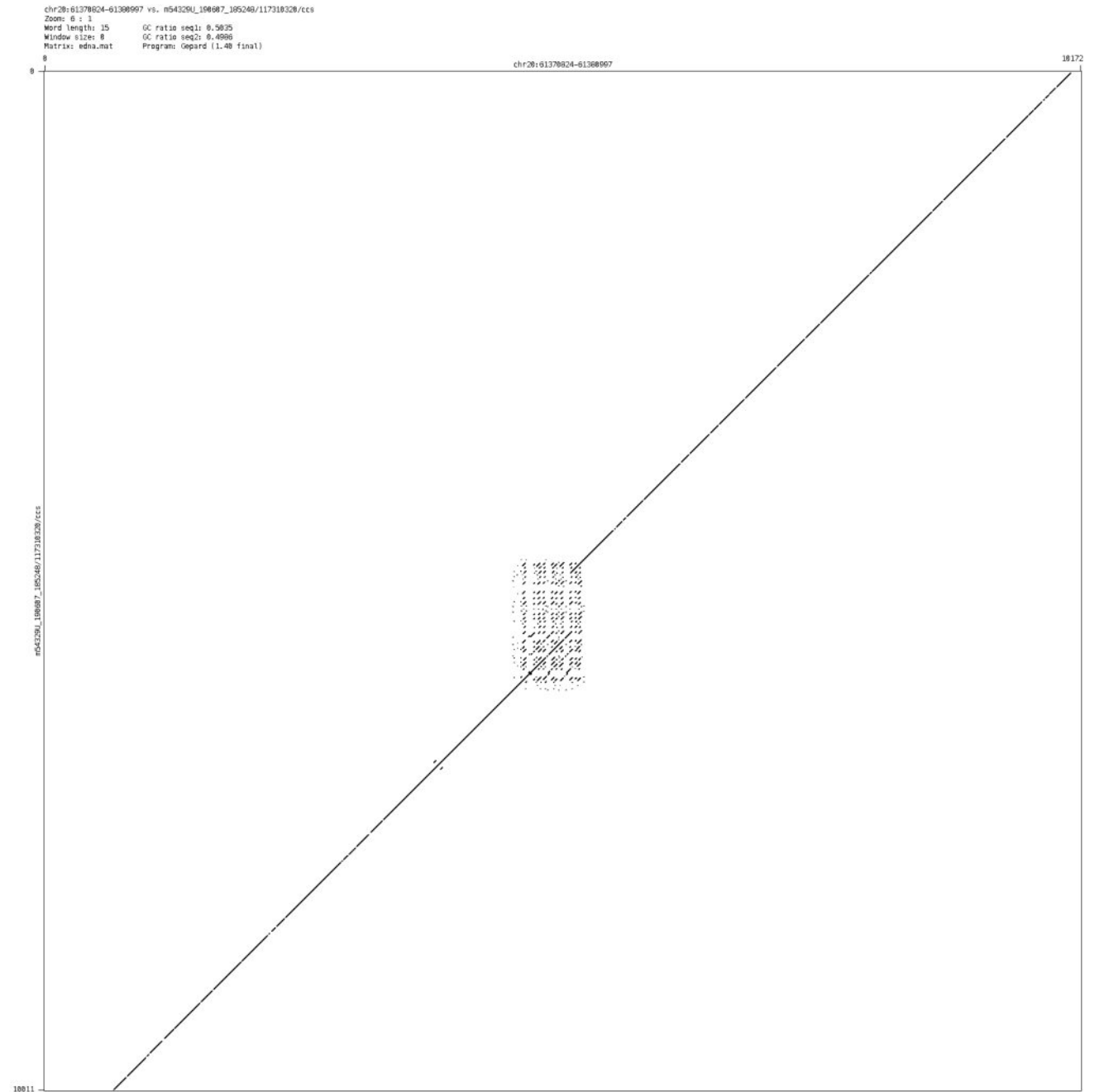
chr20:61324291-61334439 vs. m54329U\_198097\_165248/62231179/ccs  
Zoom: 6 : 1  
Word length: 15 GC ratio seq1: 0.4934  
Window size: 8 GC ratio seq2: 0.4914  
Matrix: edna.mat Program: Gepard (1.48 final)



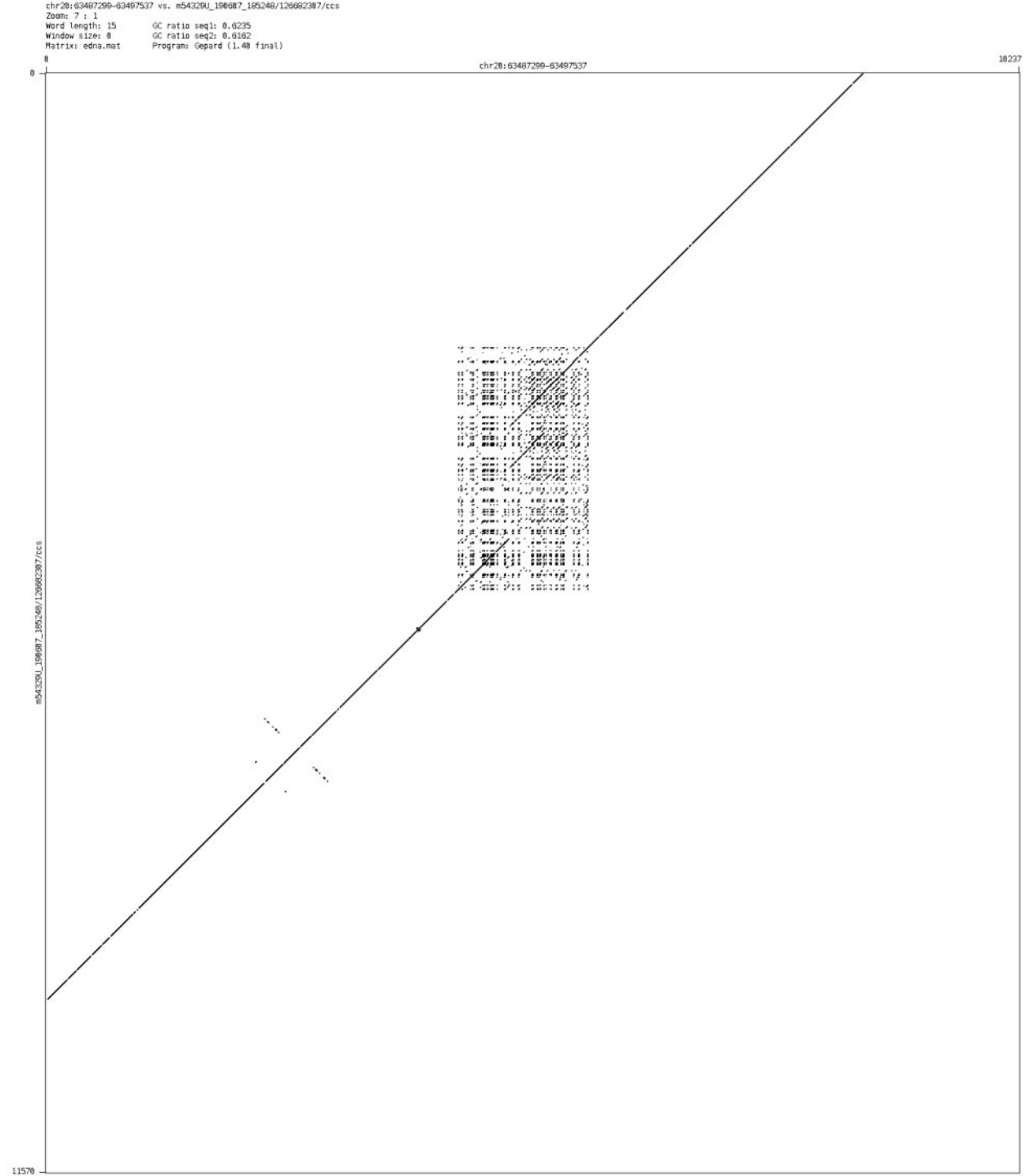
➤ chr20\_61331578\_61331692



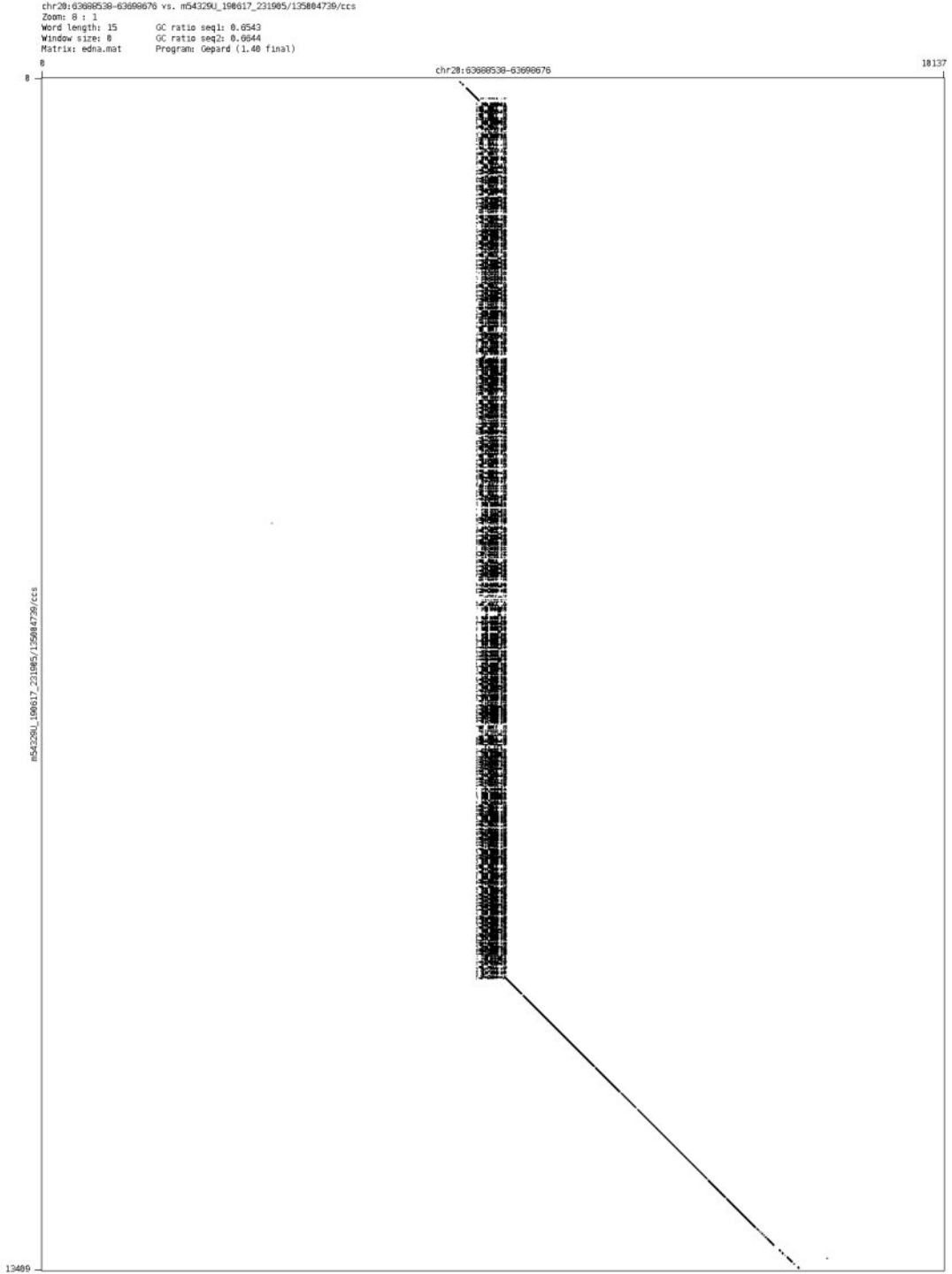
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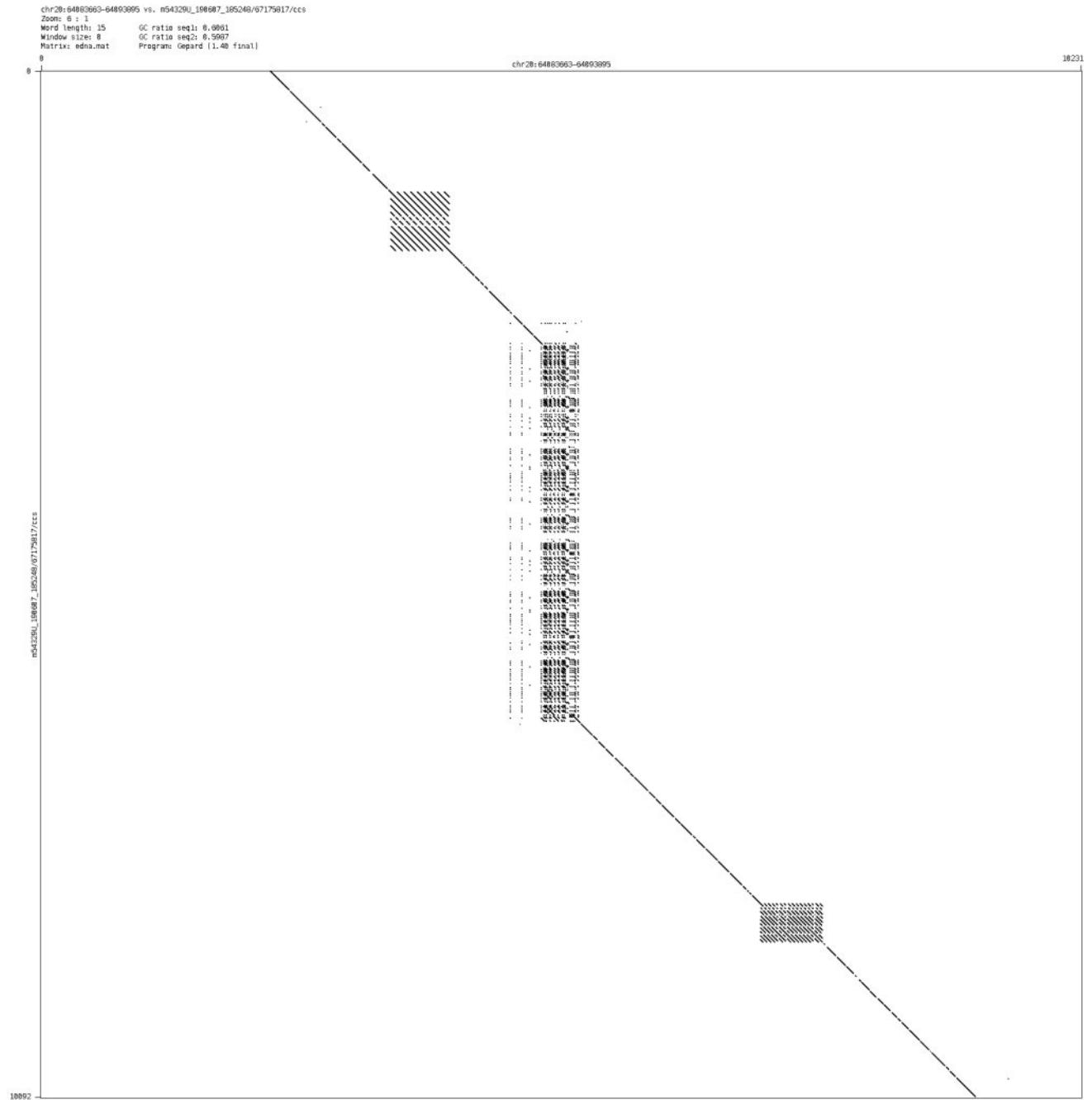
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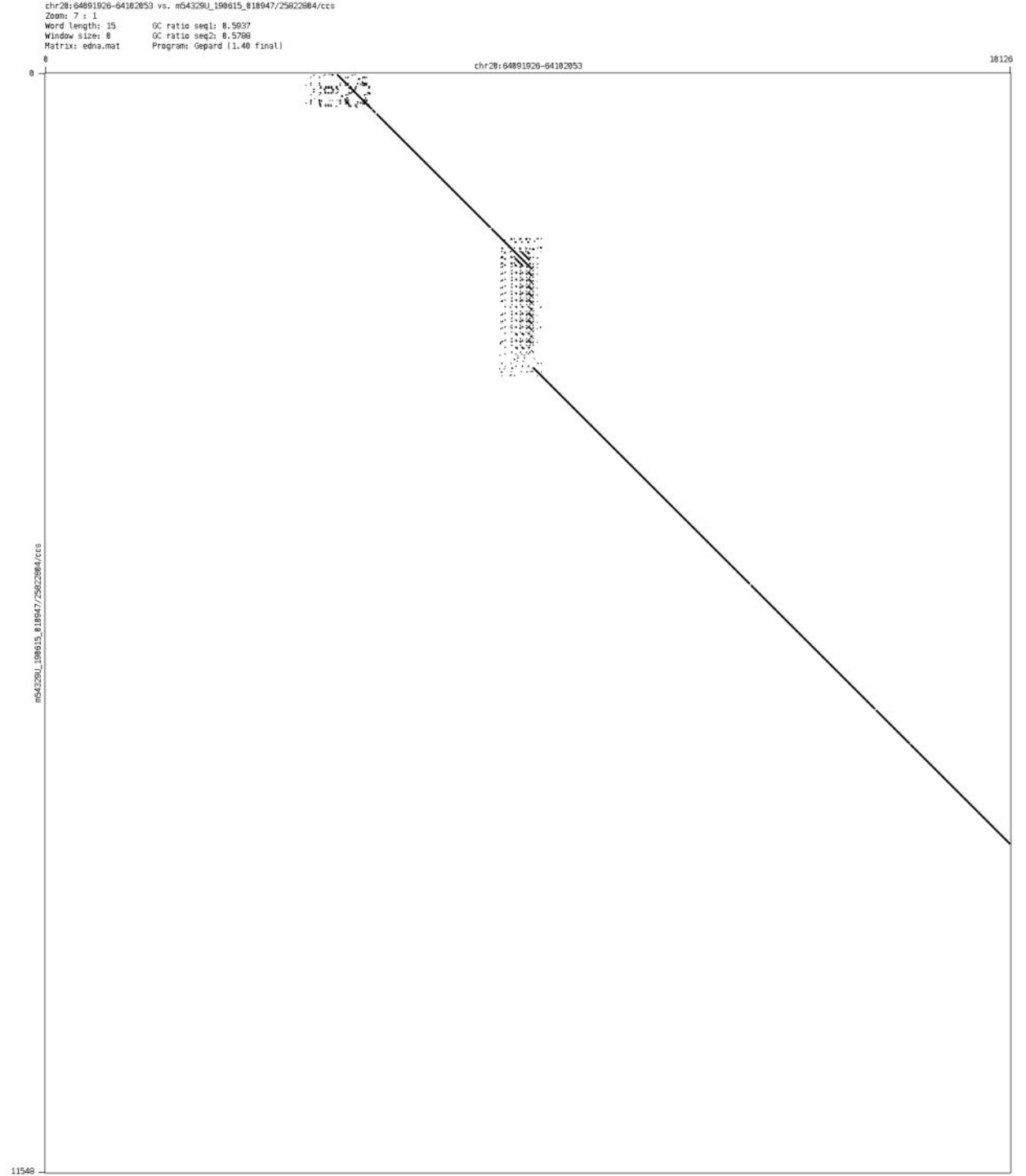
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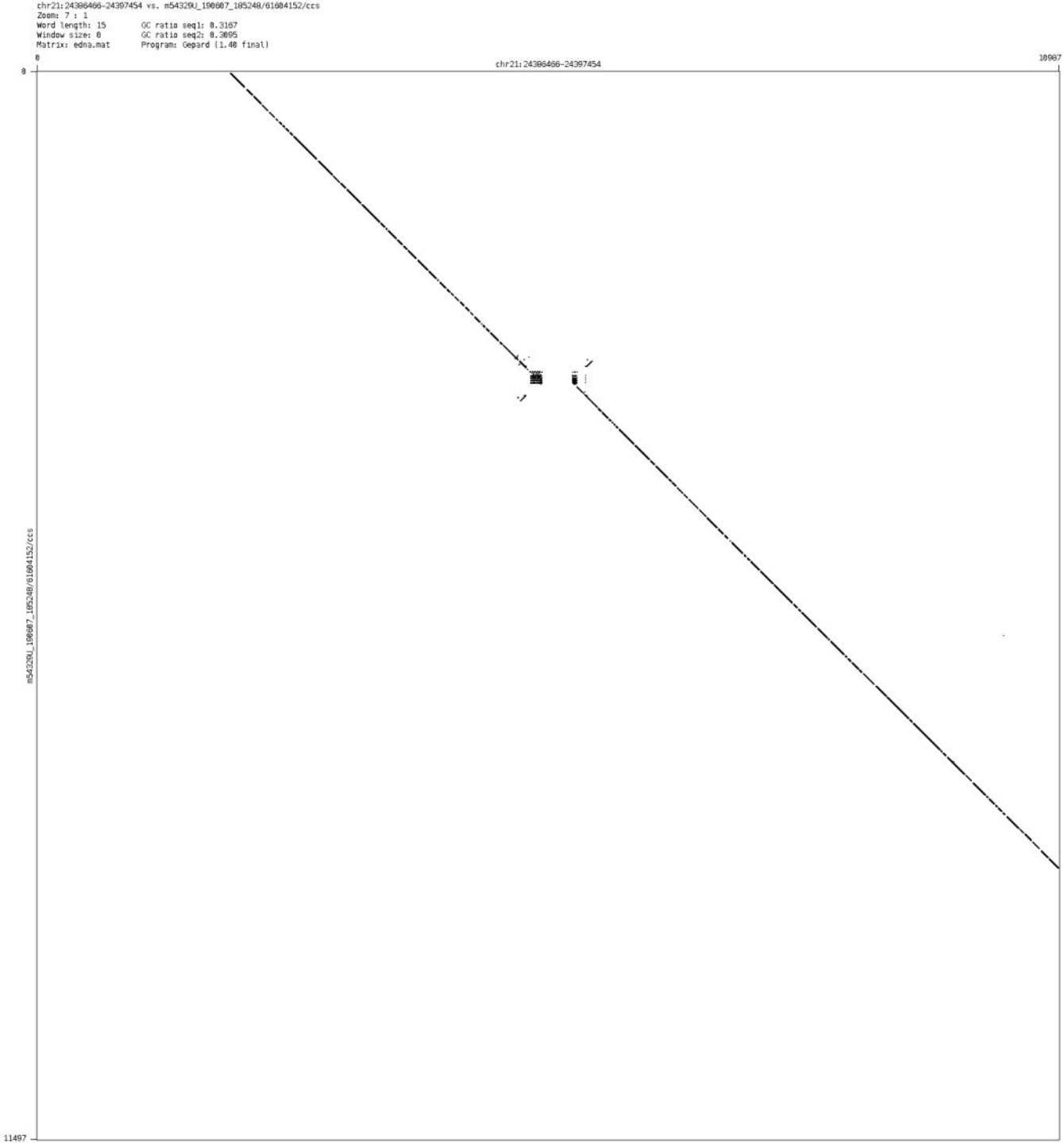


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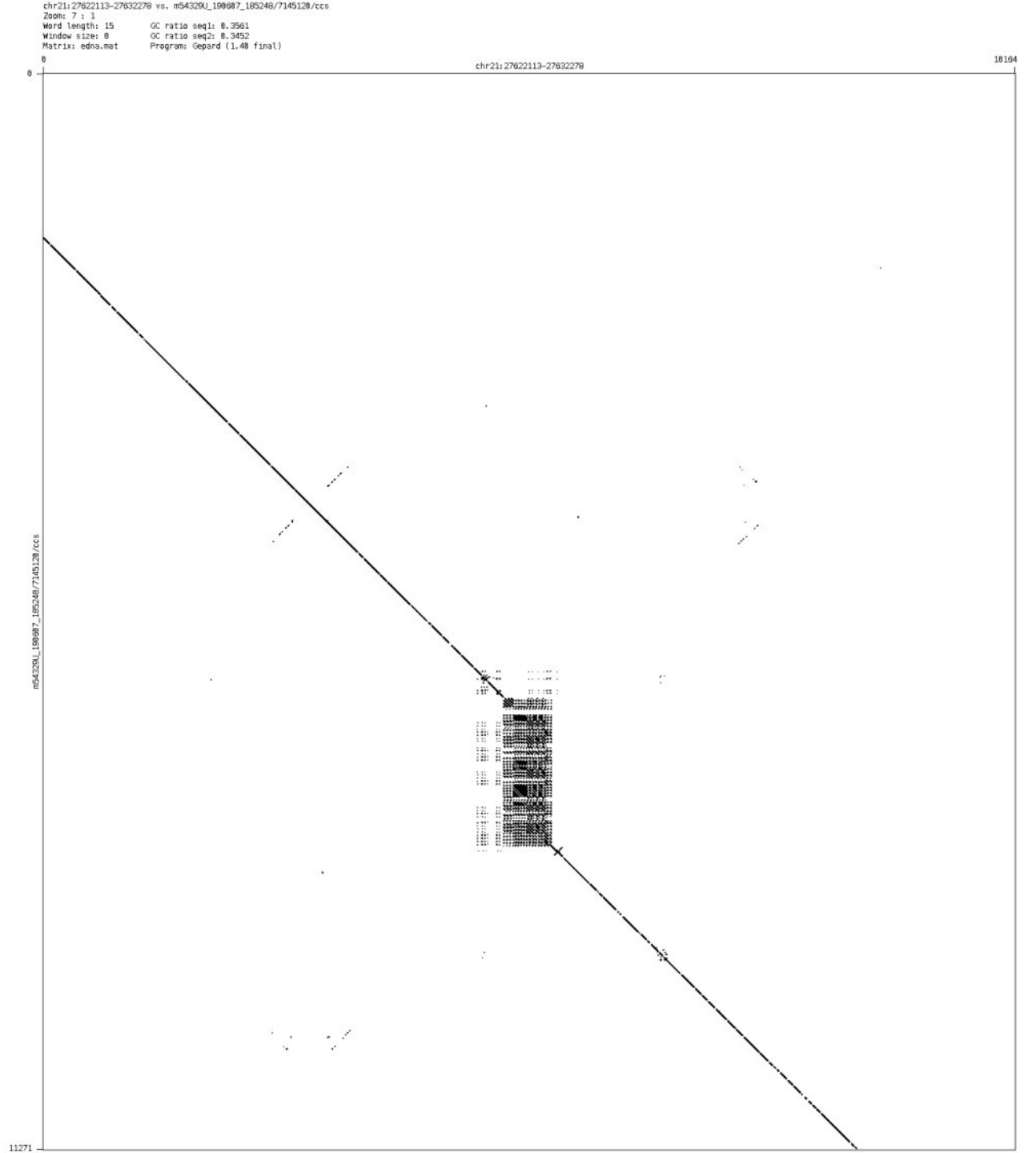




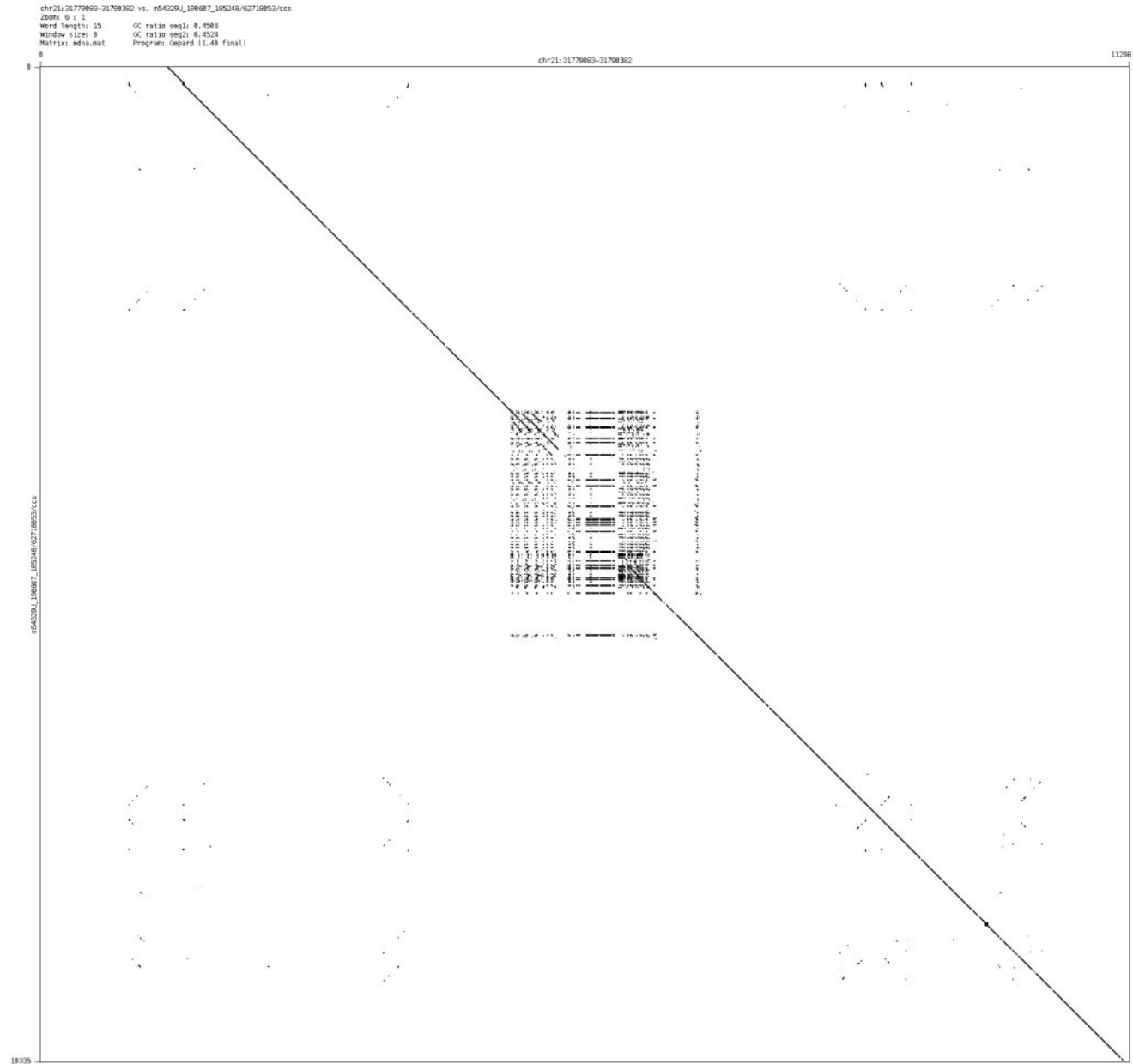
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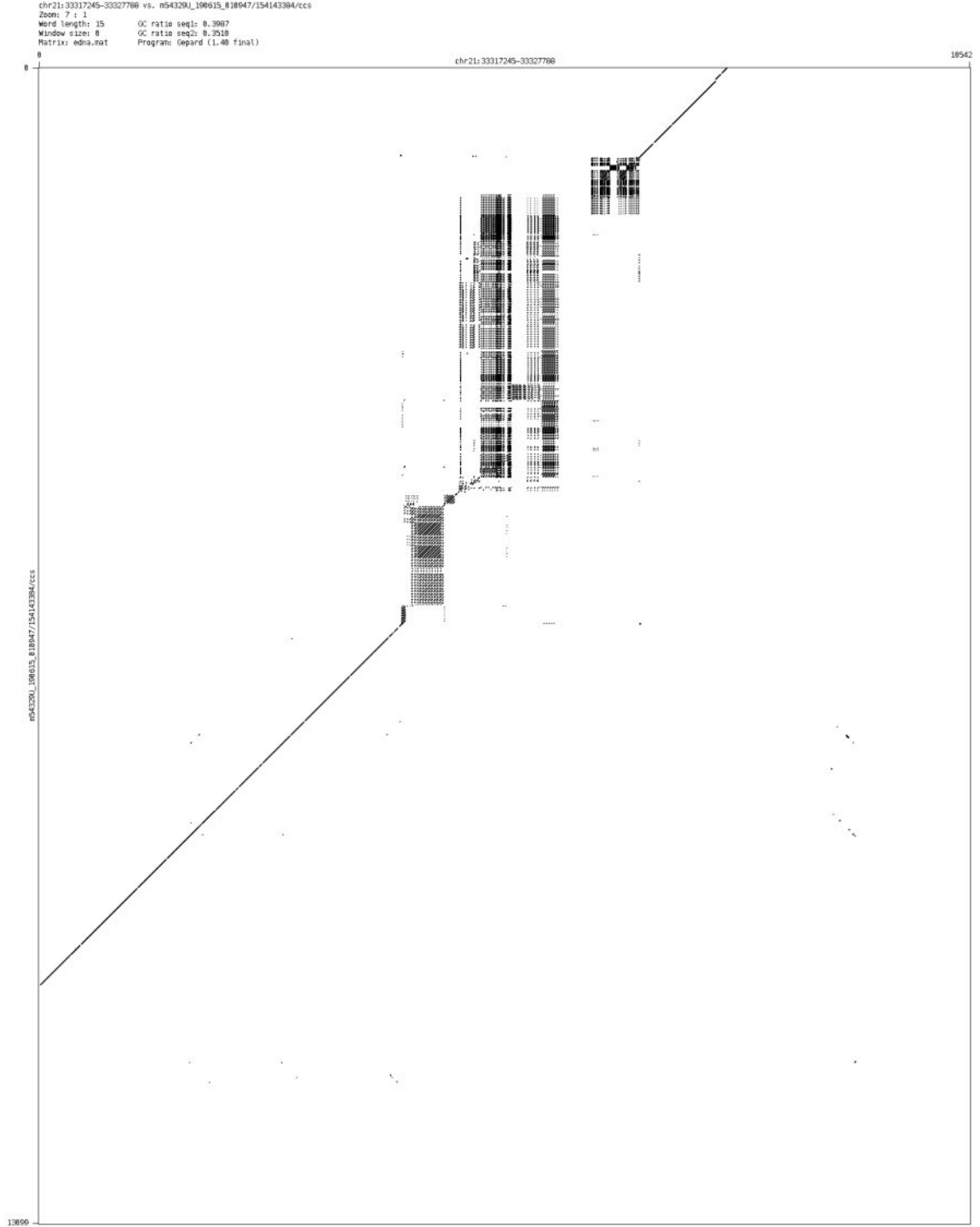
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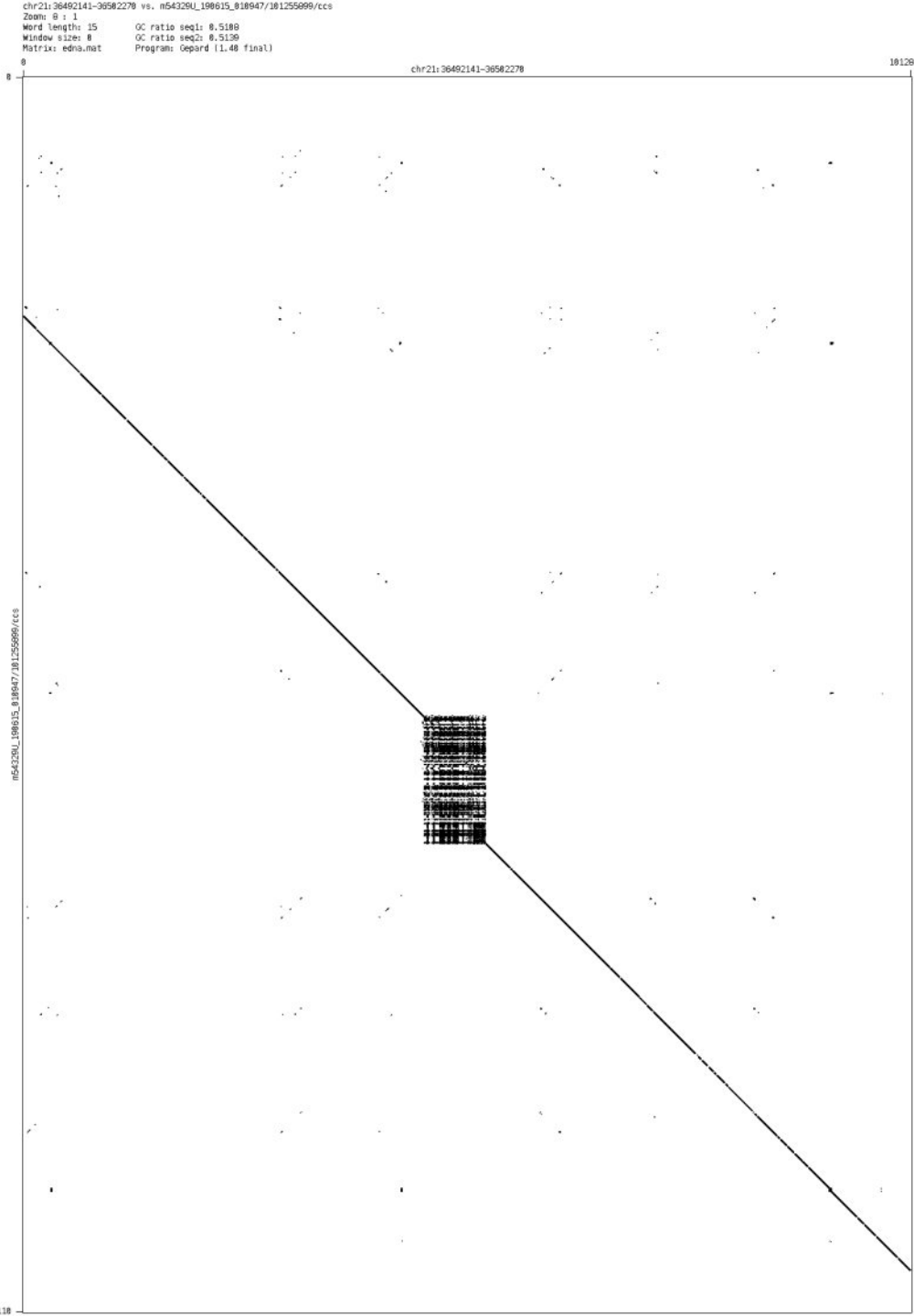
➤ chr21\_31784083\_31785382



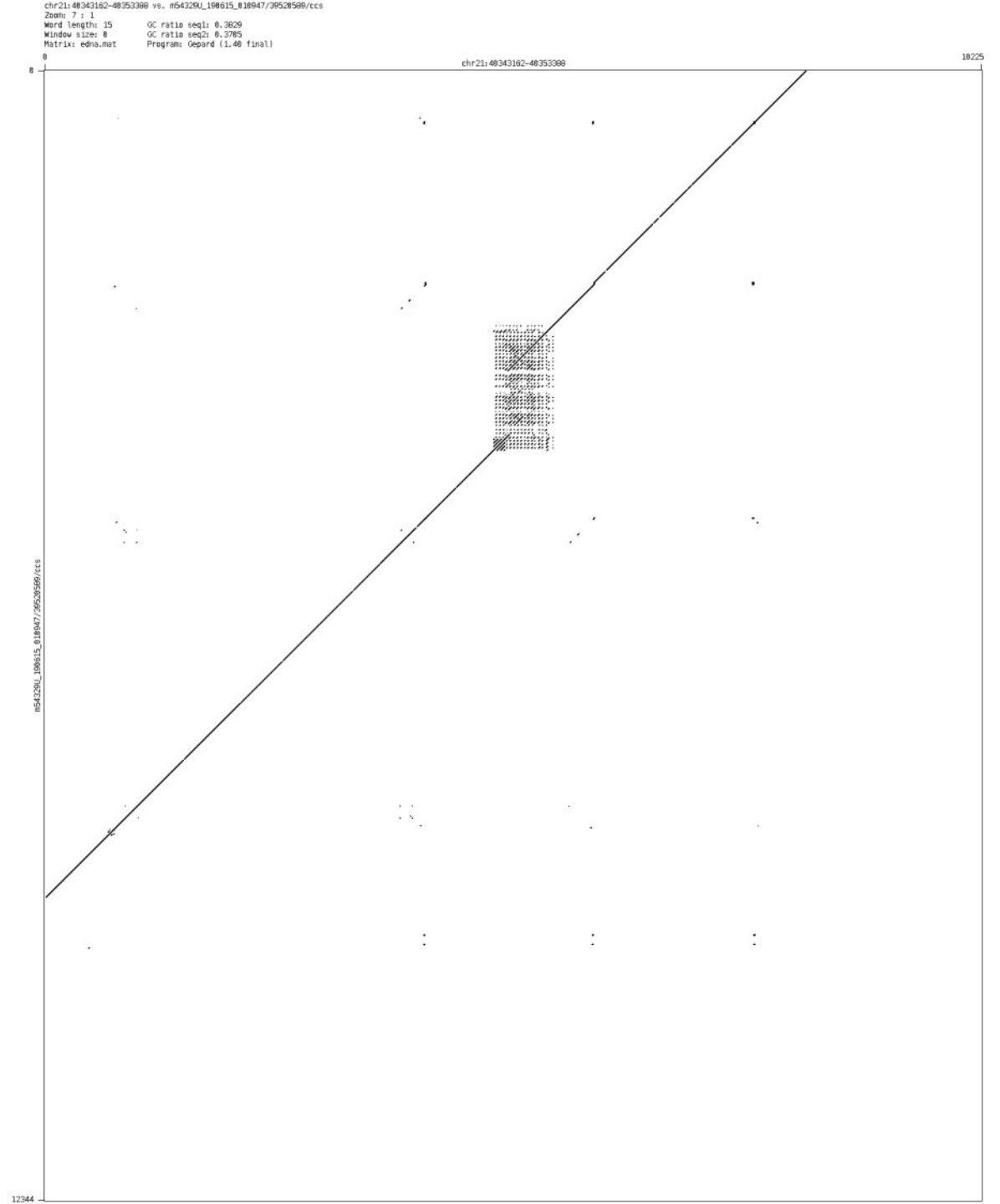
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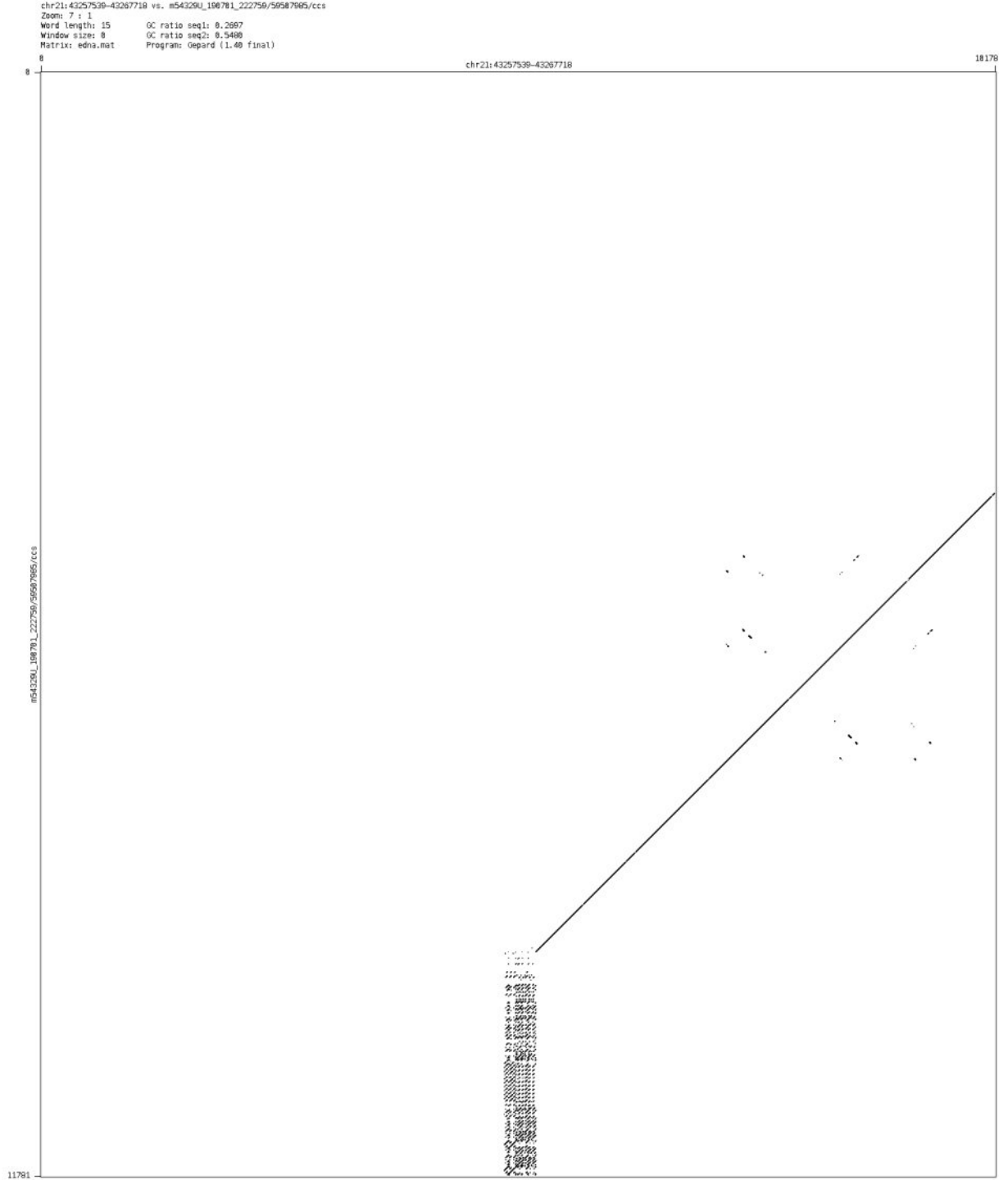
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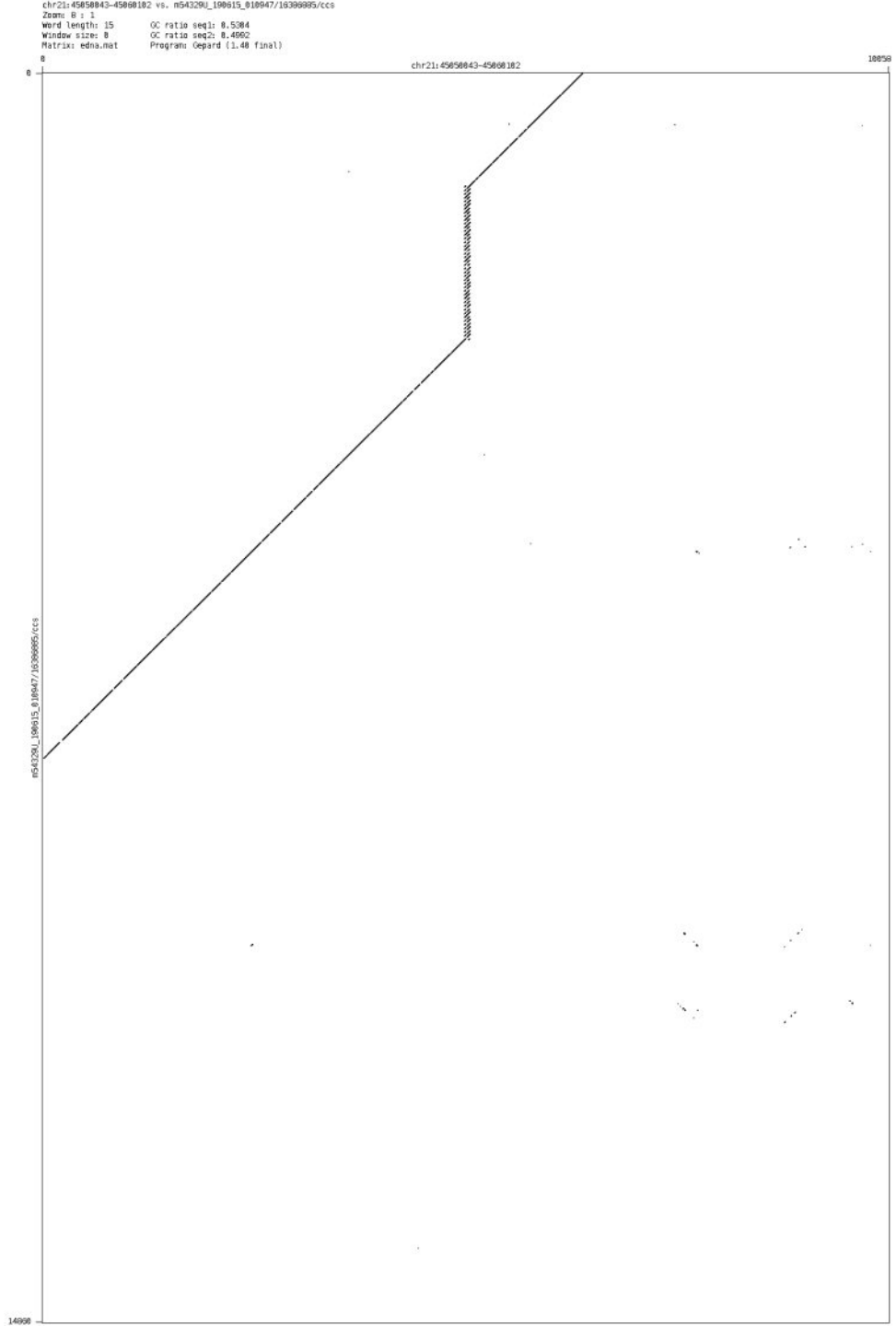
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➤ chr21\_43262539\_43262718

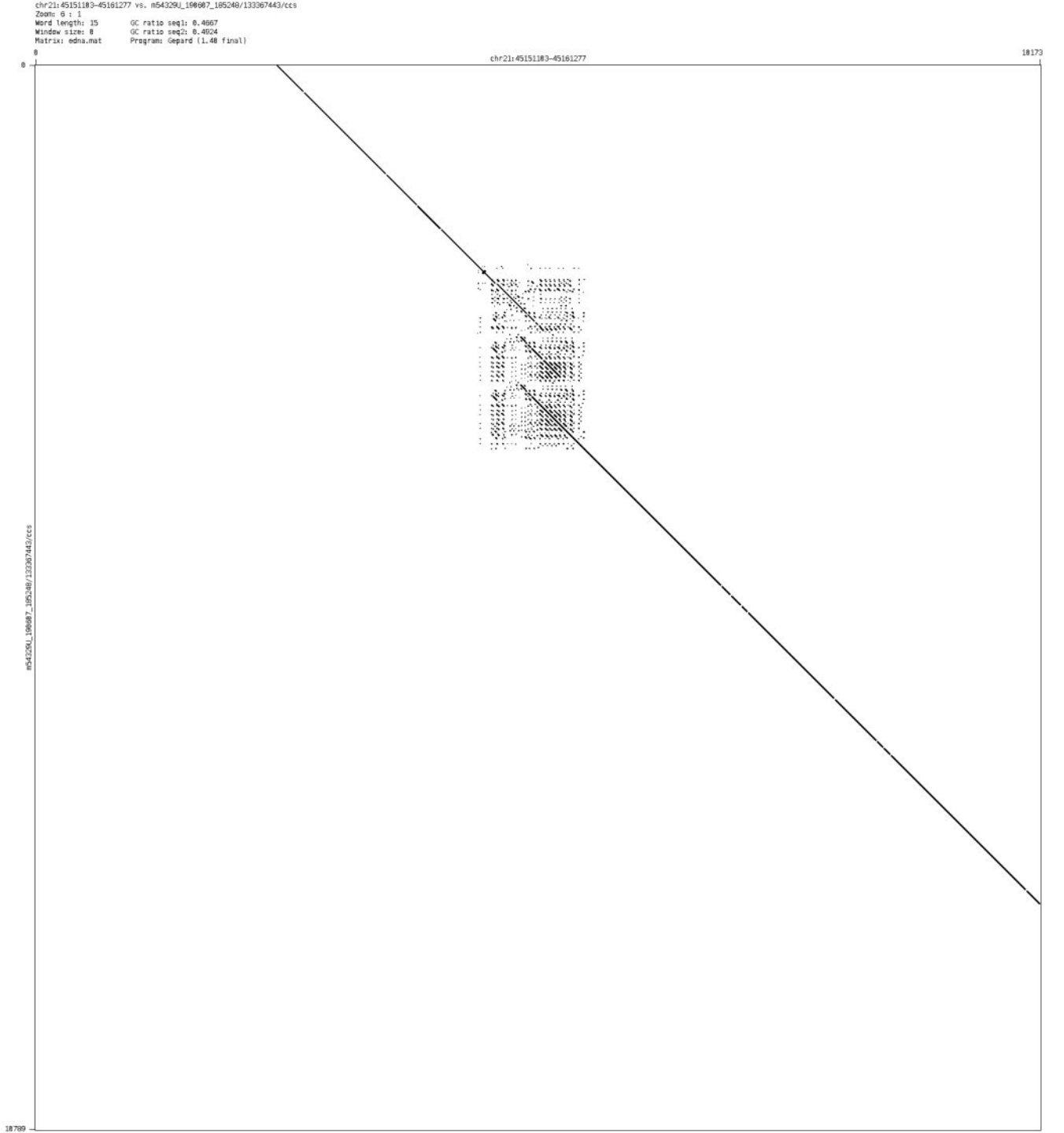


➤ chr21\_45055043\_45055102



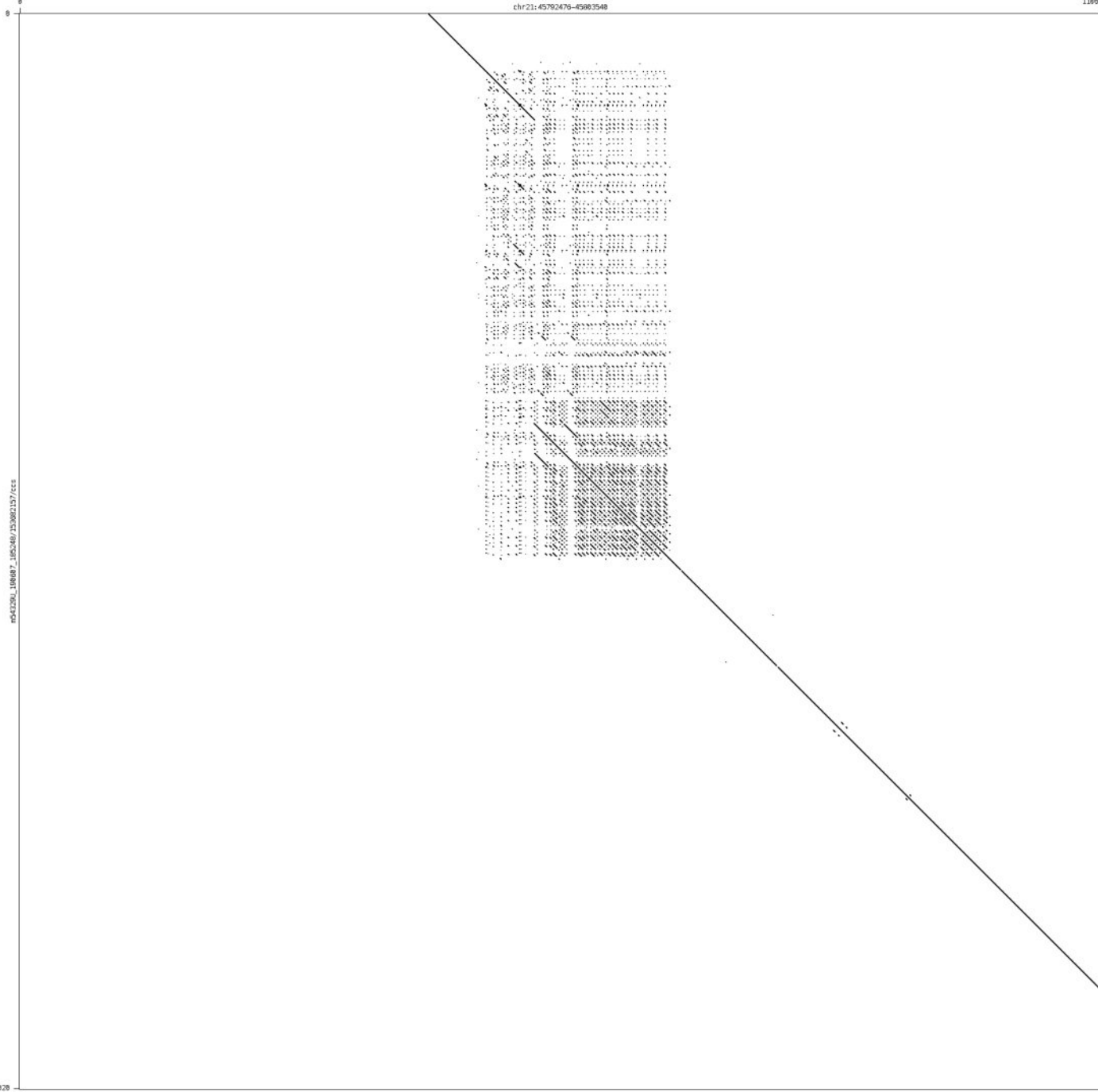


➤ chr21\_45156103\_45156277

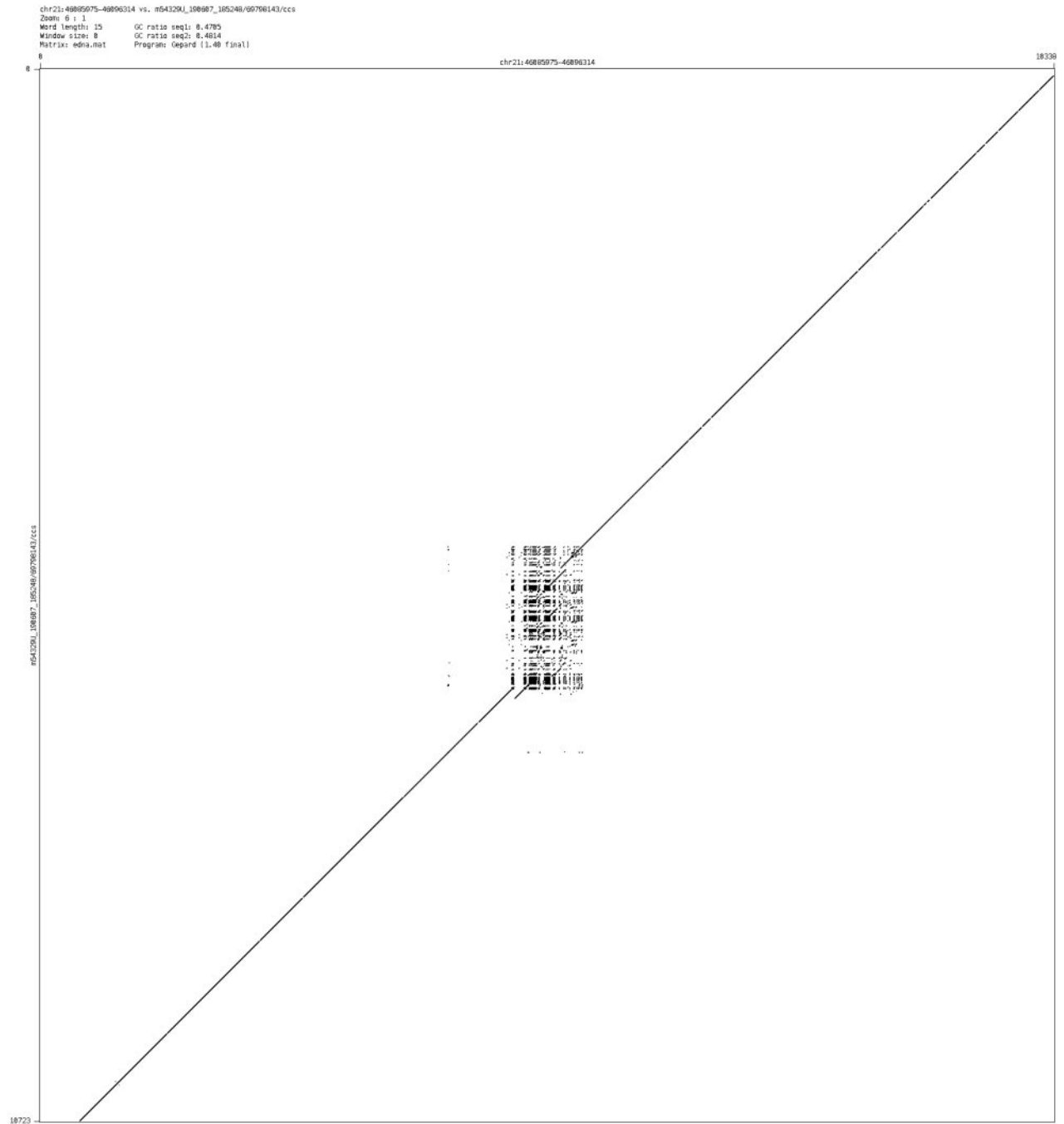


➤ chr21\_45797476\_45798540

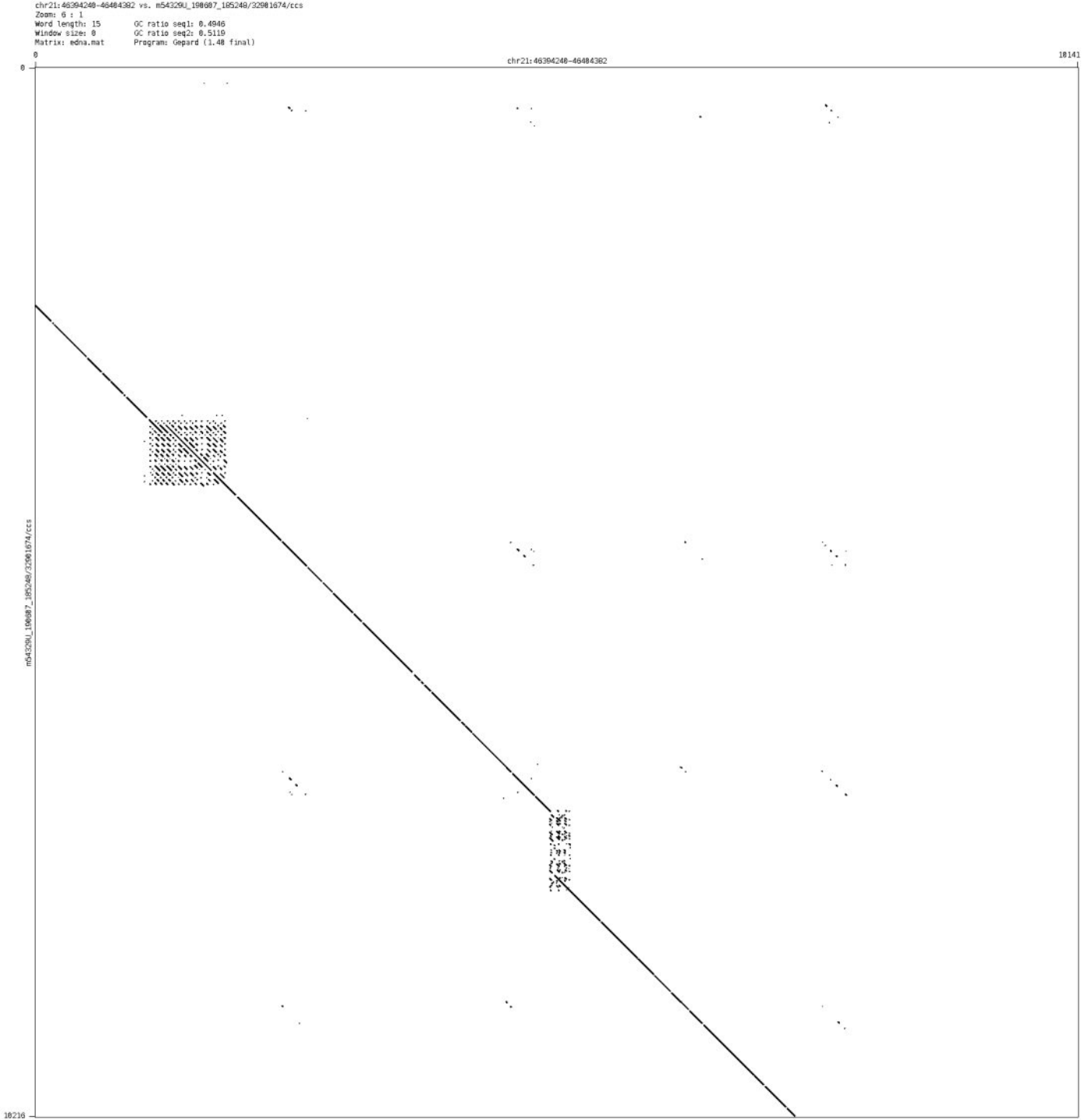
chr21:45797476-45803540 vs. n543281\_180887\_185248/153602157/ccs  
Zoom: 6 : 1 GC ratio seq1: 0.4731  
Word length: 15 GC ratio seq2: 0.4928  
Window size: 8 Program: cepd (1.48 final)  
Matrix: edna.mat



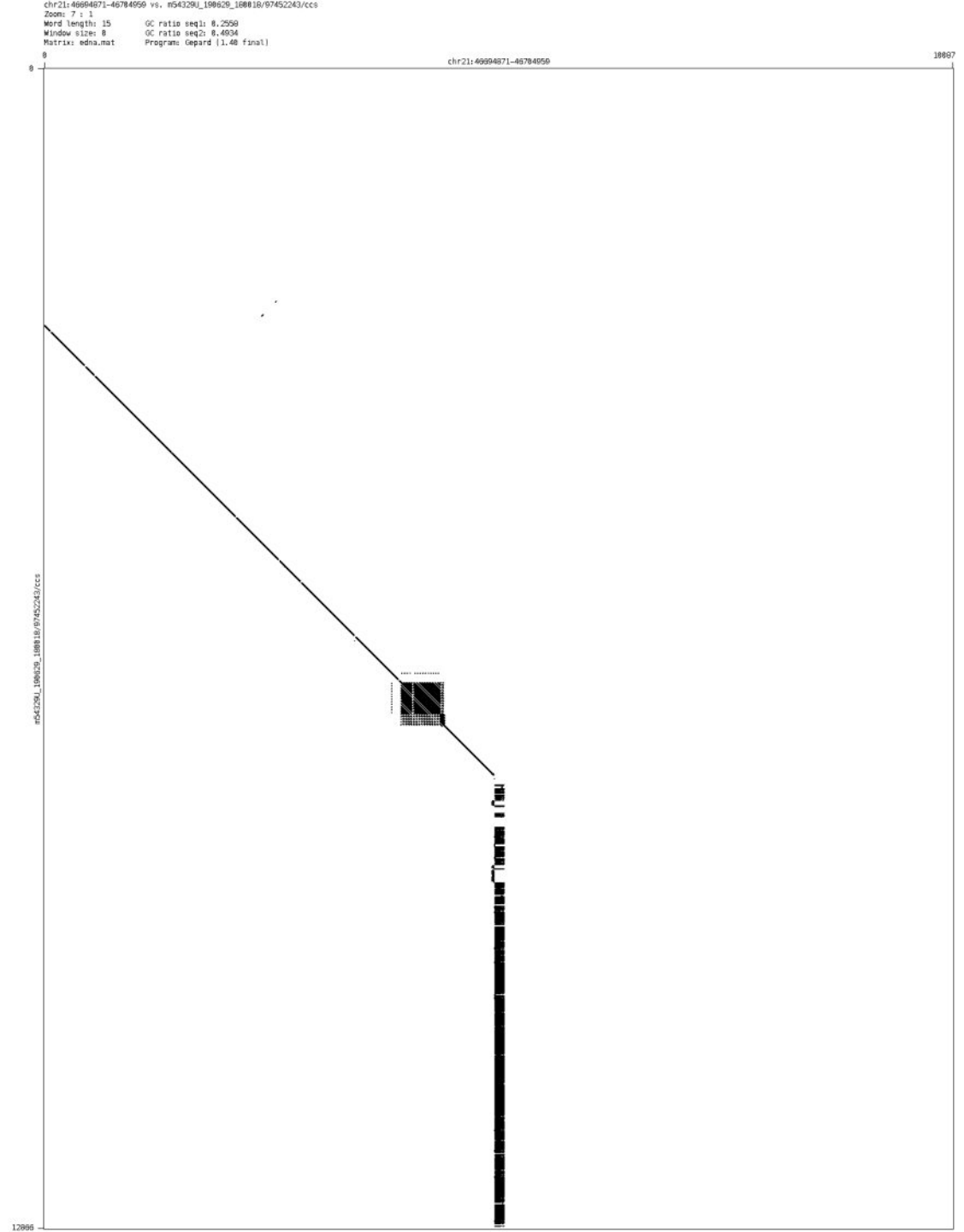
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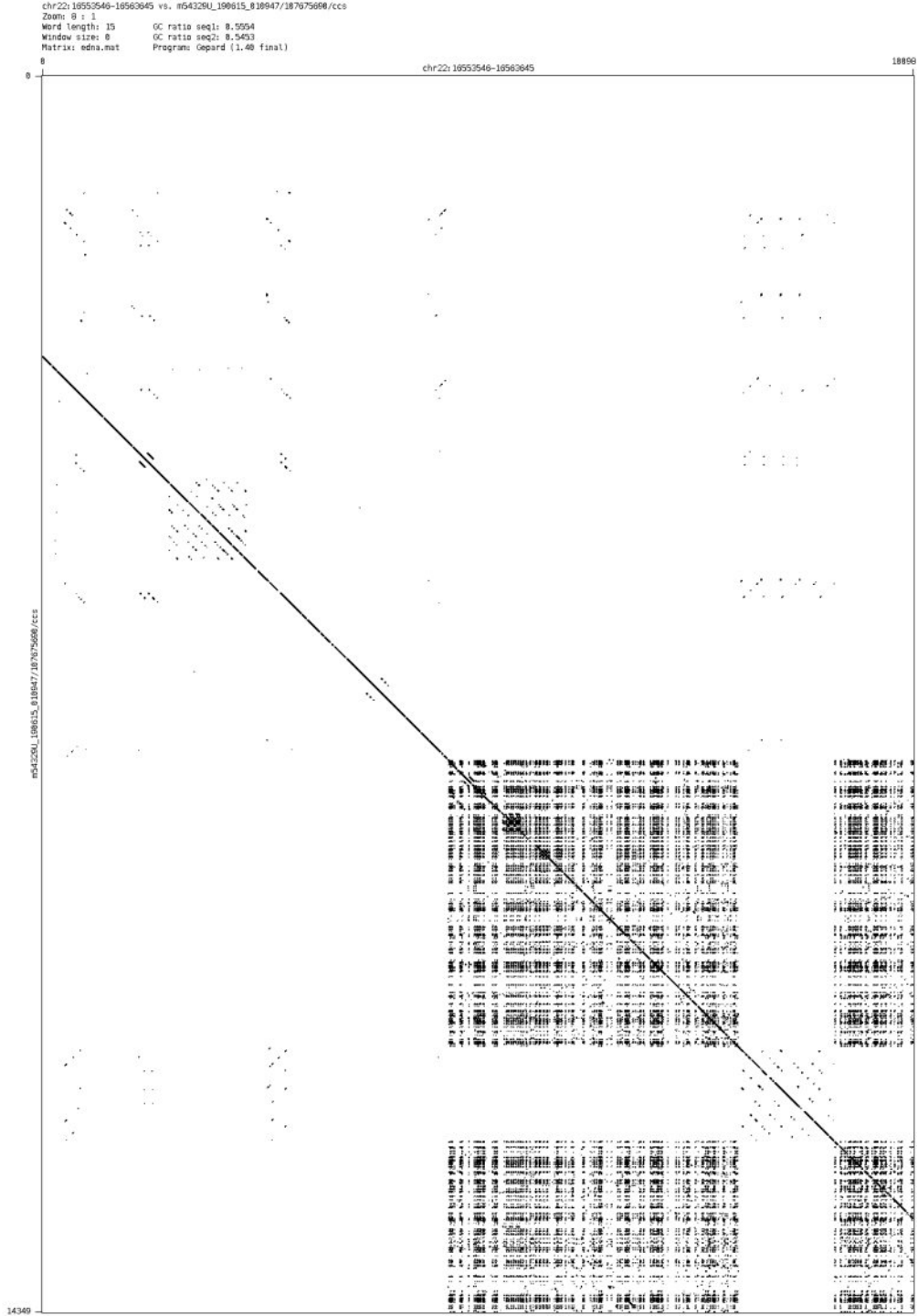
➤ chr21\_46399240\_46399382



➤ chr21\_46699871\_46699959

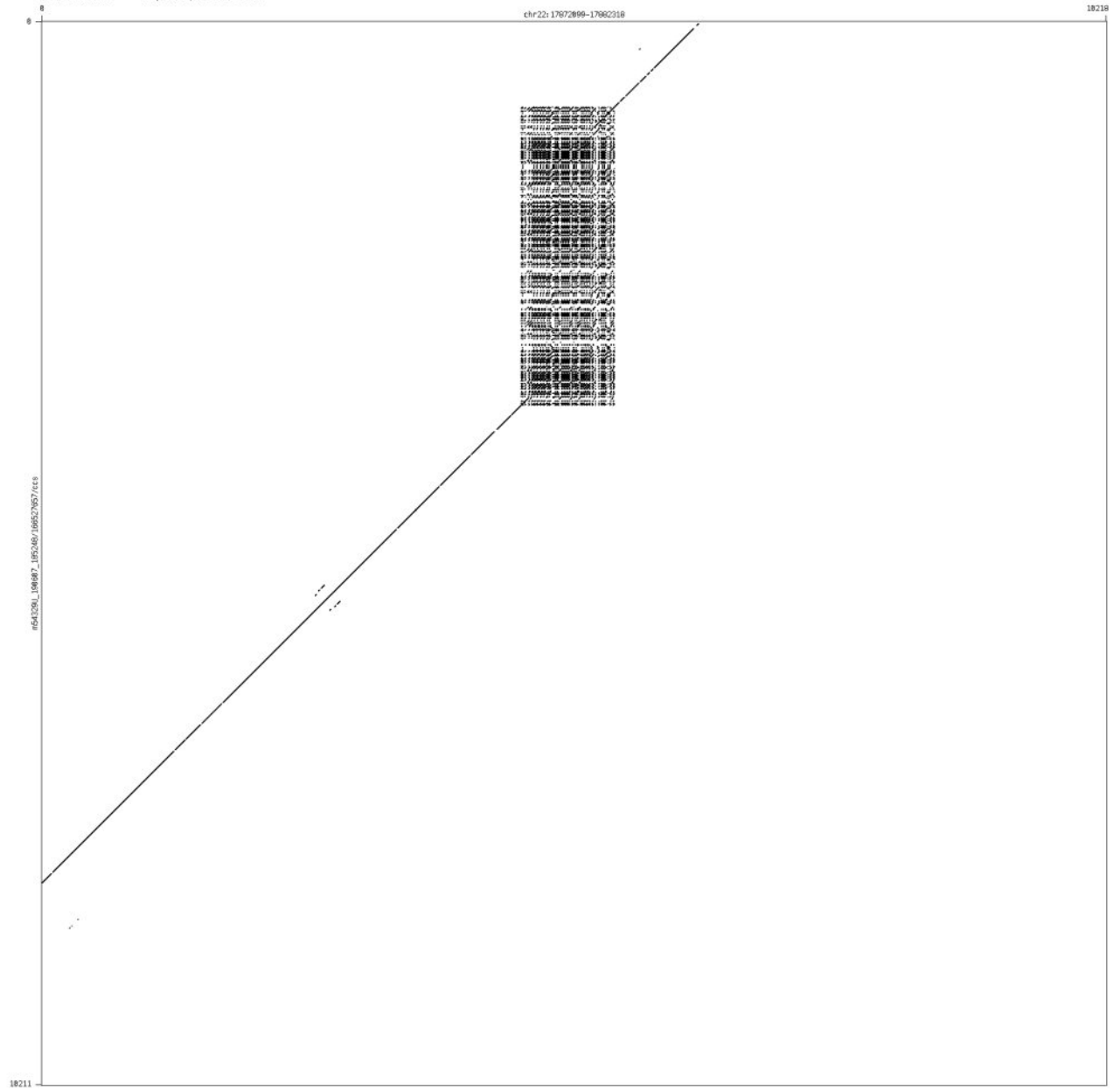


➤ chr22\_16558546\_16558645

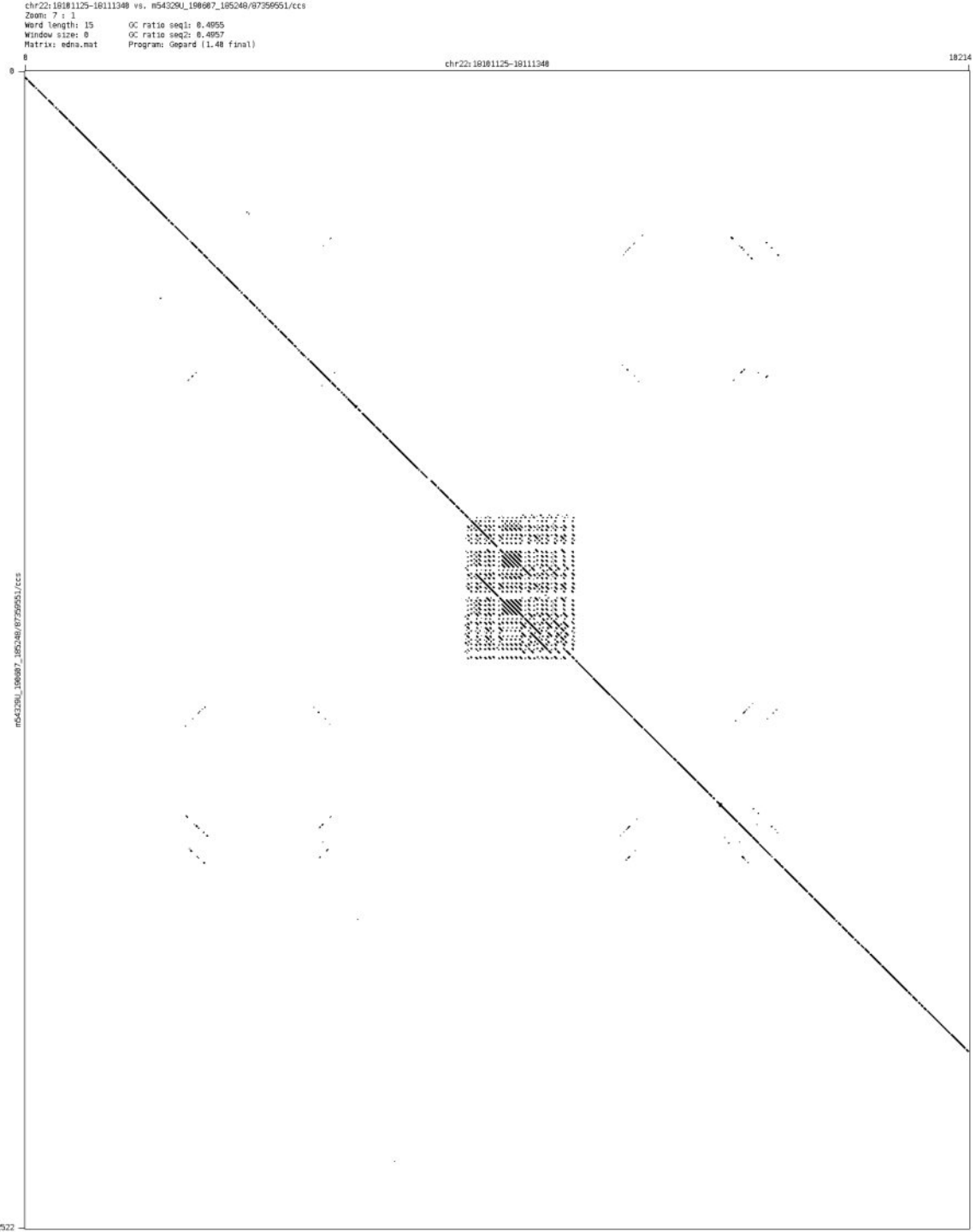


➤ chr22\_17877099\_17877318

chr22:17672899-17882318 vs. m543280\_186687\_185248/166527957/ccs  
Zoom: 0.1  
Word length: 15 OC ratio seq1: 8.5218  
Window size: 0 OC ratio seq2: 8.5199  
Matrix: edna.mat Program: cepad (1.48 final)

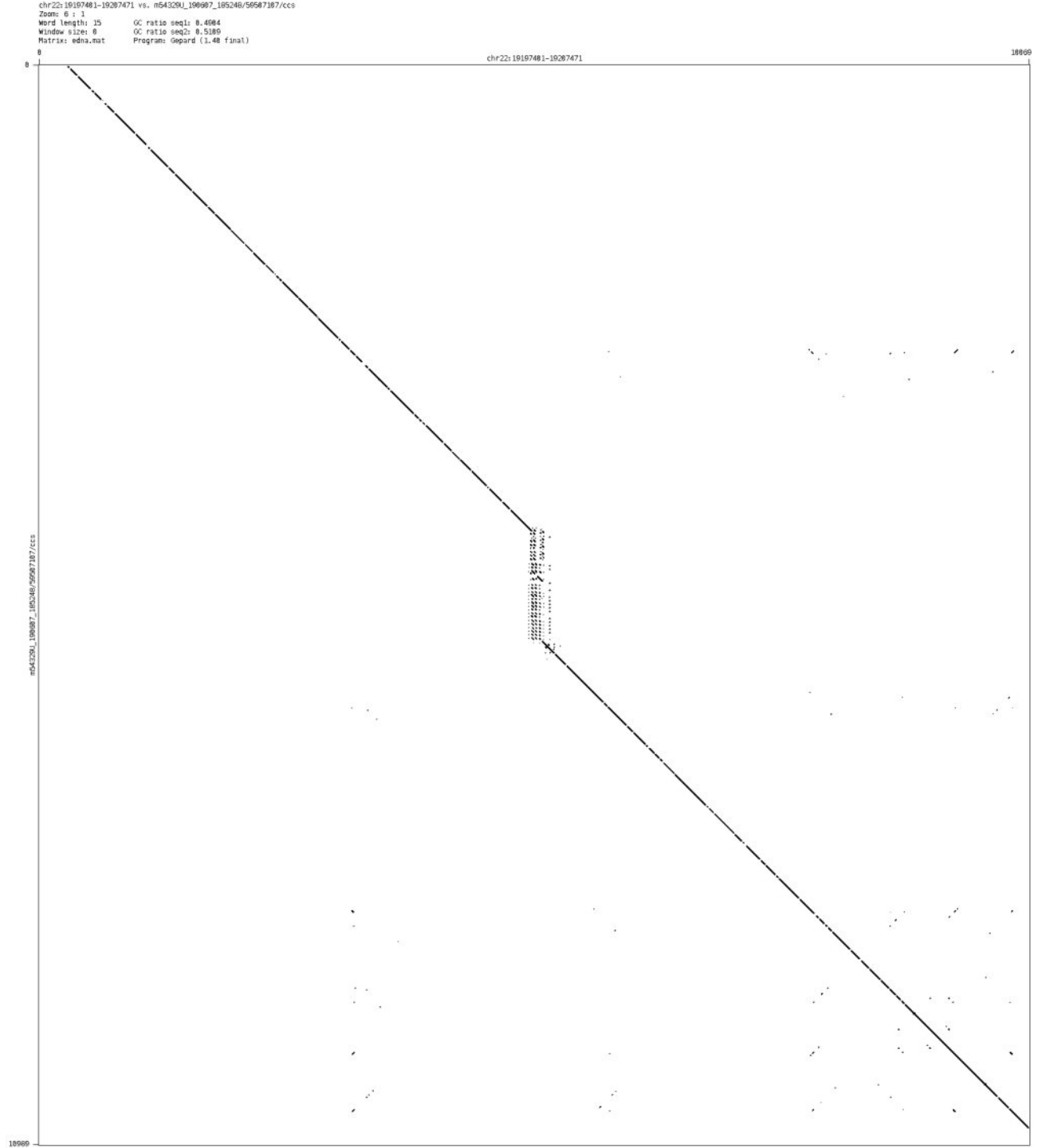


➤ chr22\_18106125\_18106340



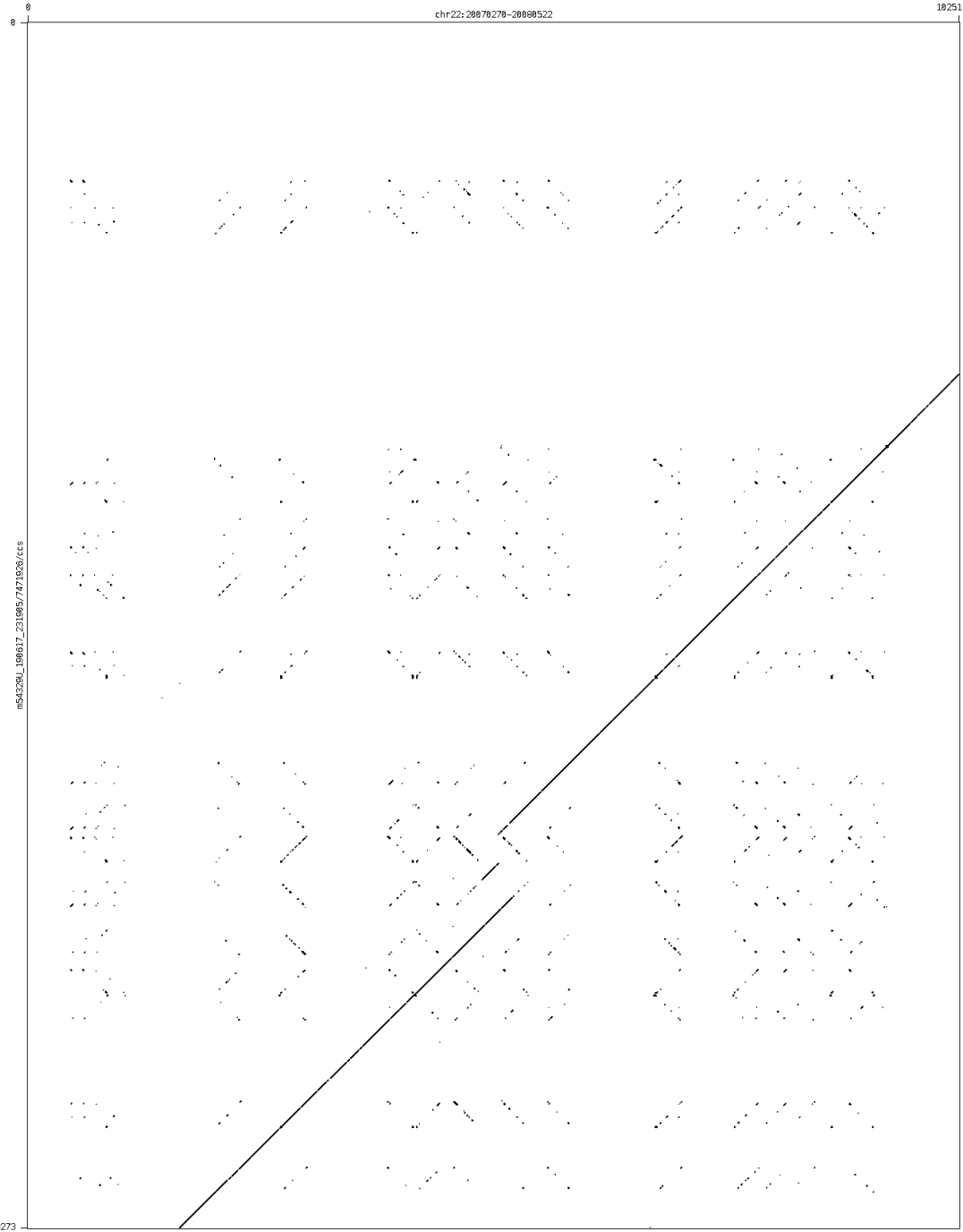


➤ chr22\_19202401\_19202471

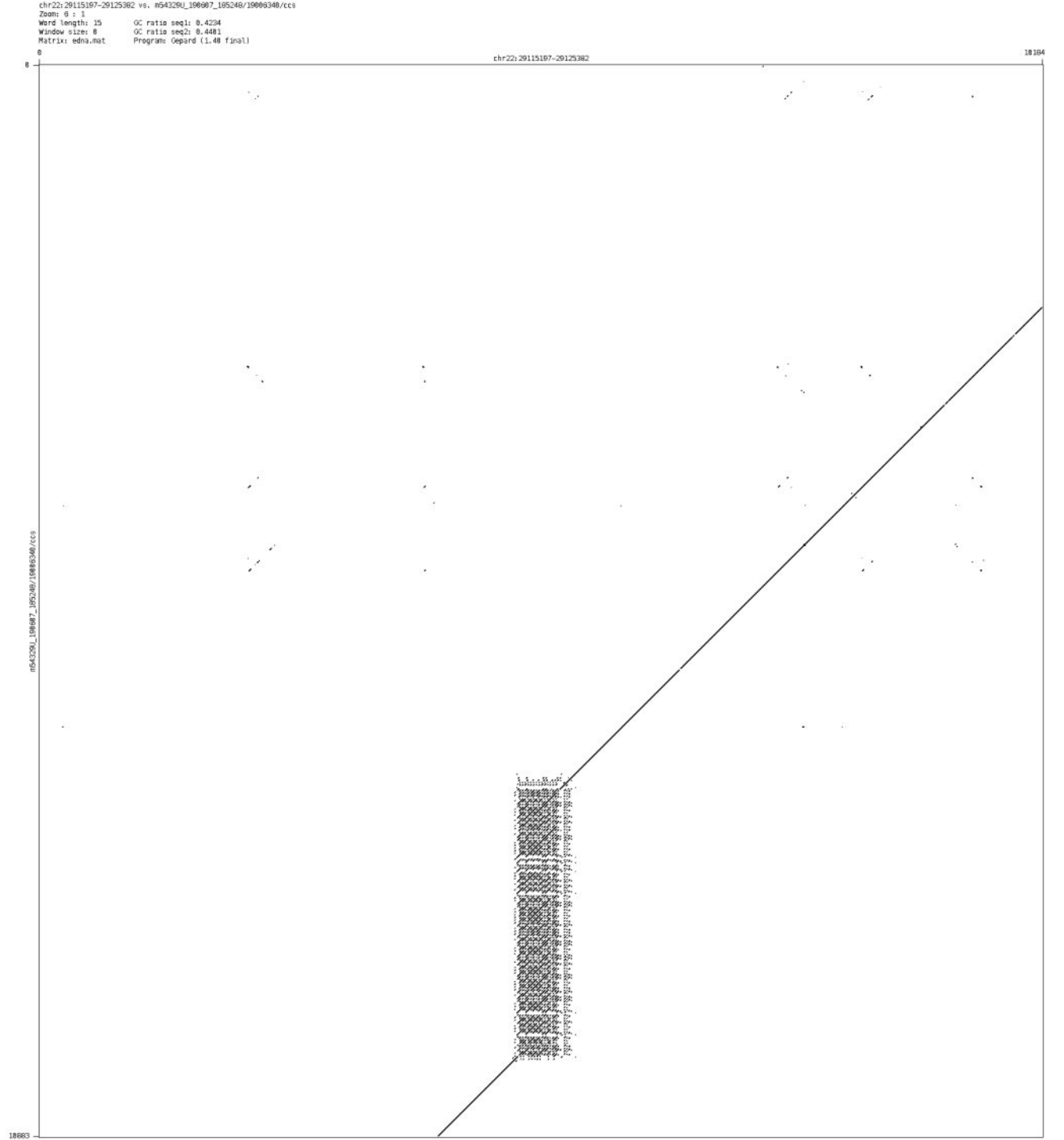


➤ chr22\_20075270\_20075522

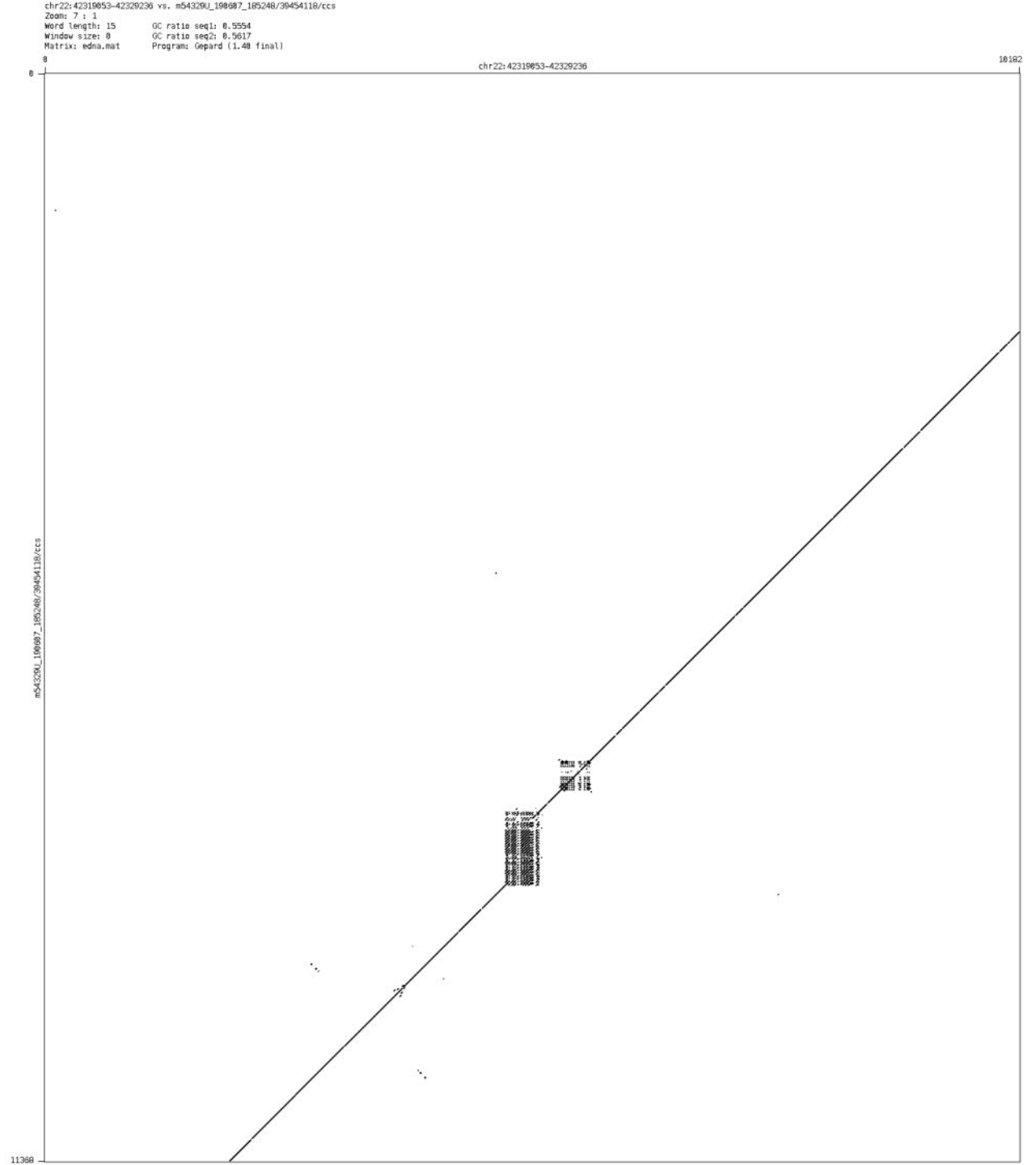
chr22:20070270-20080522 vs. m54329L\_190617\_231895/7471926/ccs  
Zoom: 8 : 1 GC ratio seq1: 0.4987  
Word length: 15 GC ratio seq2: 0.5000  
Window size: 0 Matrix: edna.mat Program: Gepard (1.40 final)



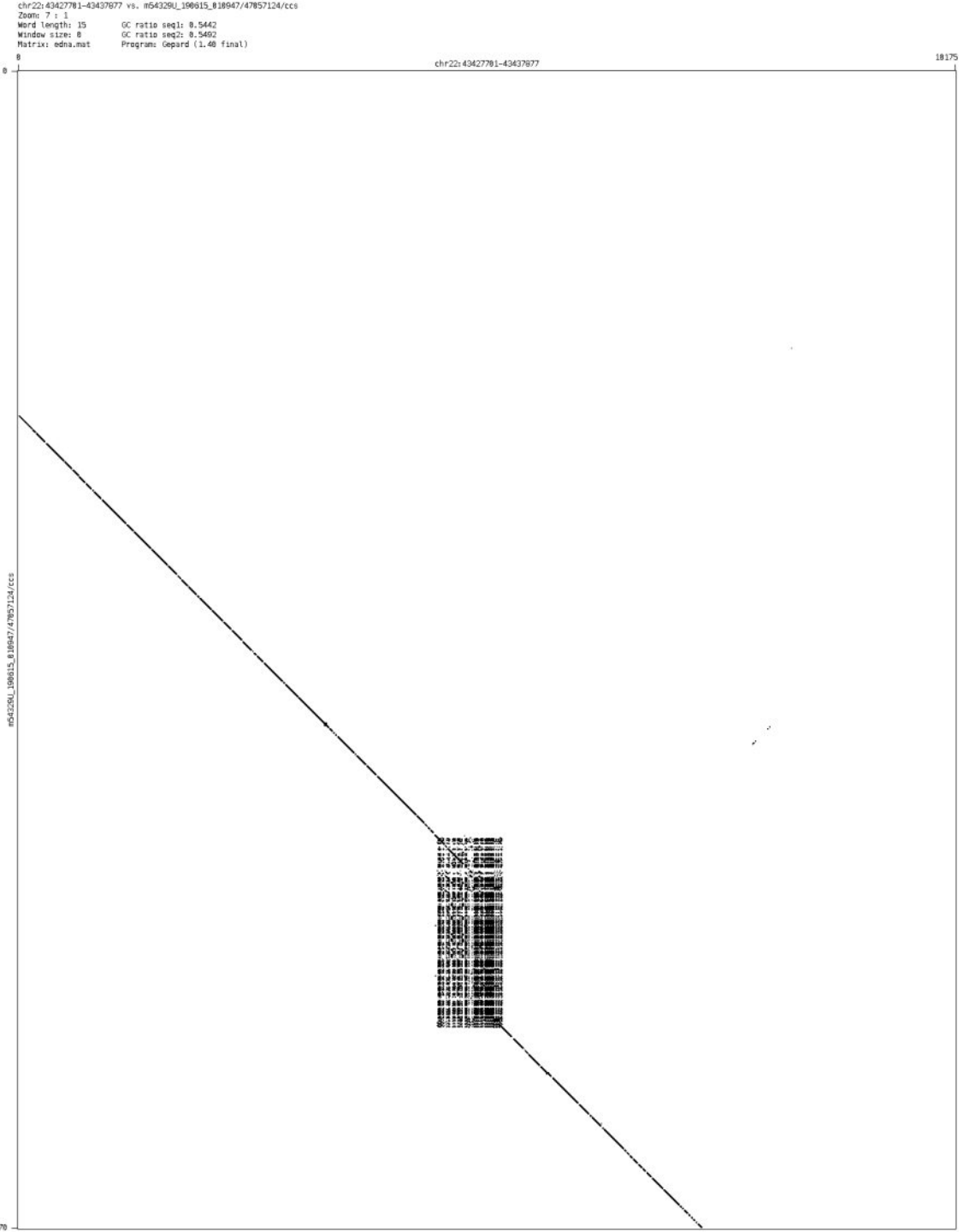
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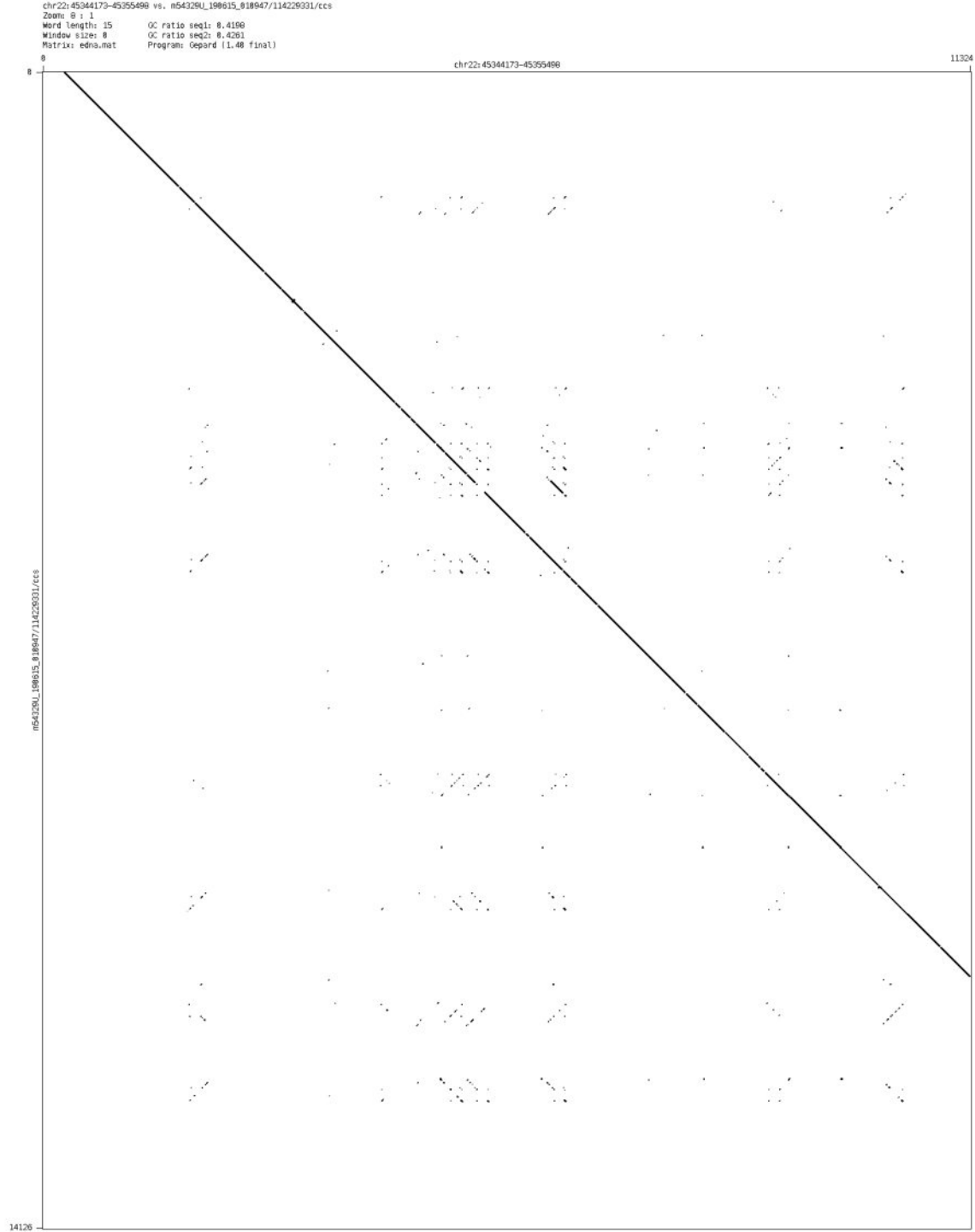
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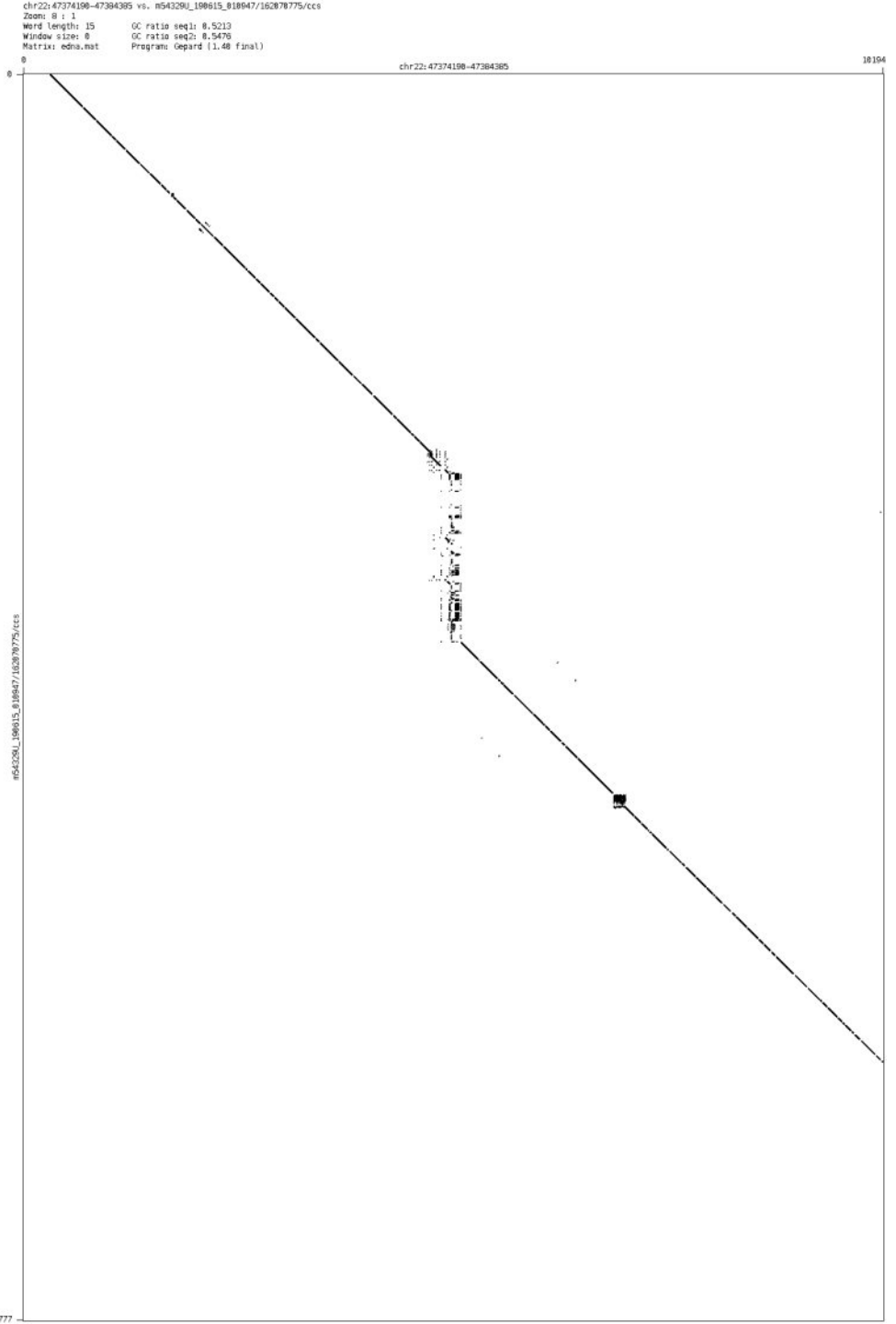
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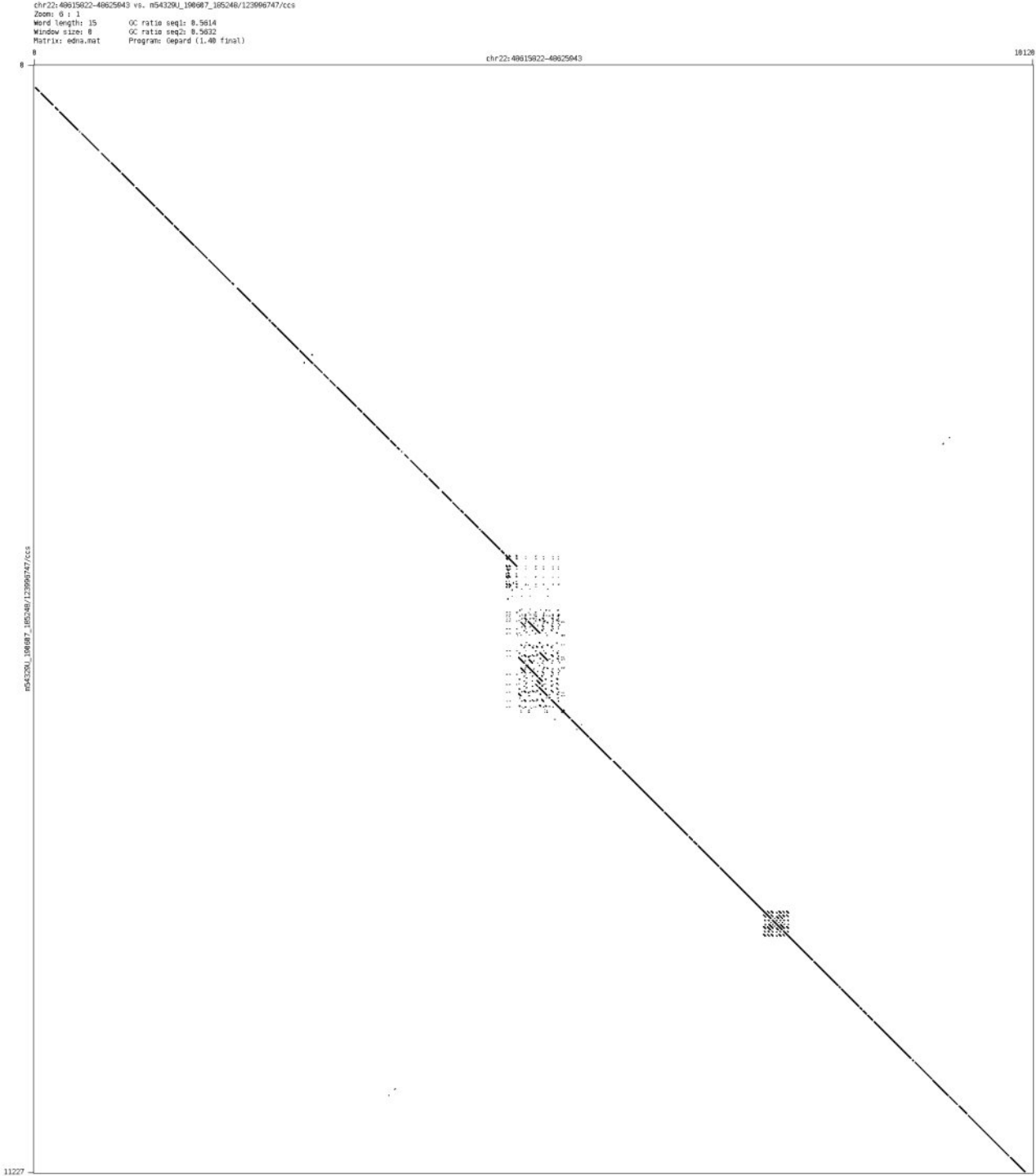
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➤ chr22\_47379190\_47379385

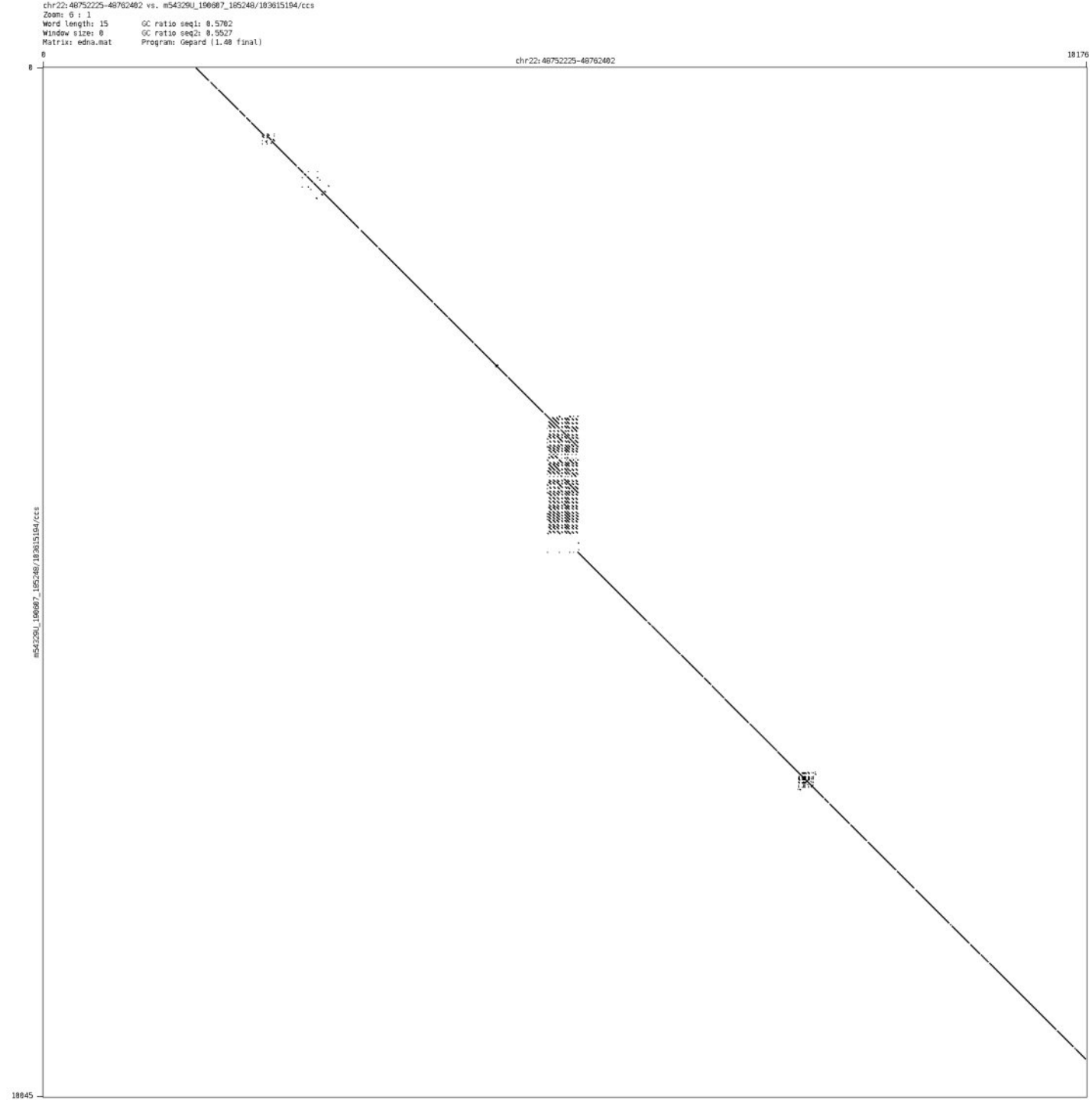


➤ chr22\_48620822\_48620943

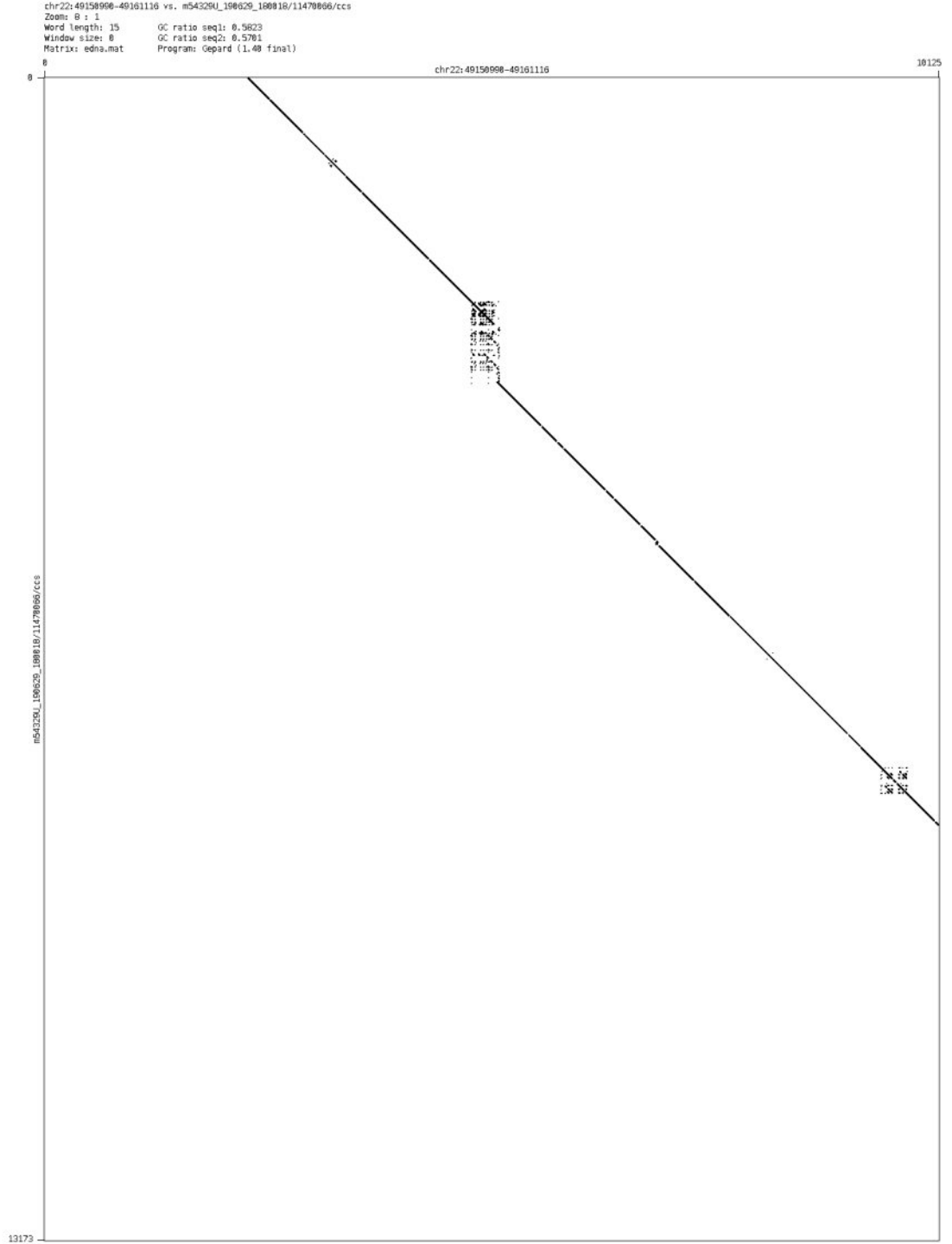




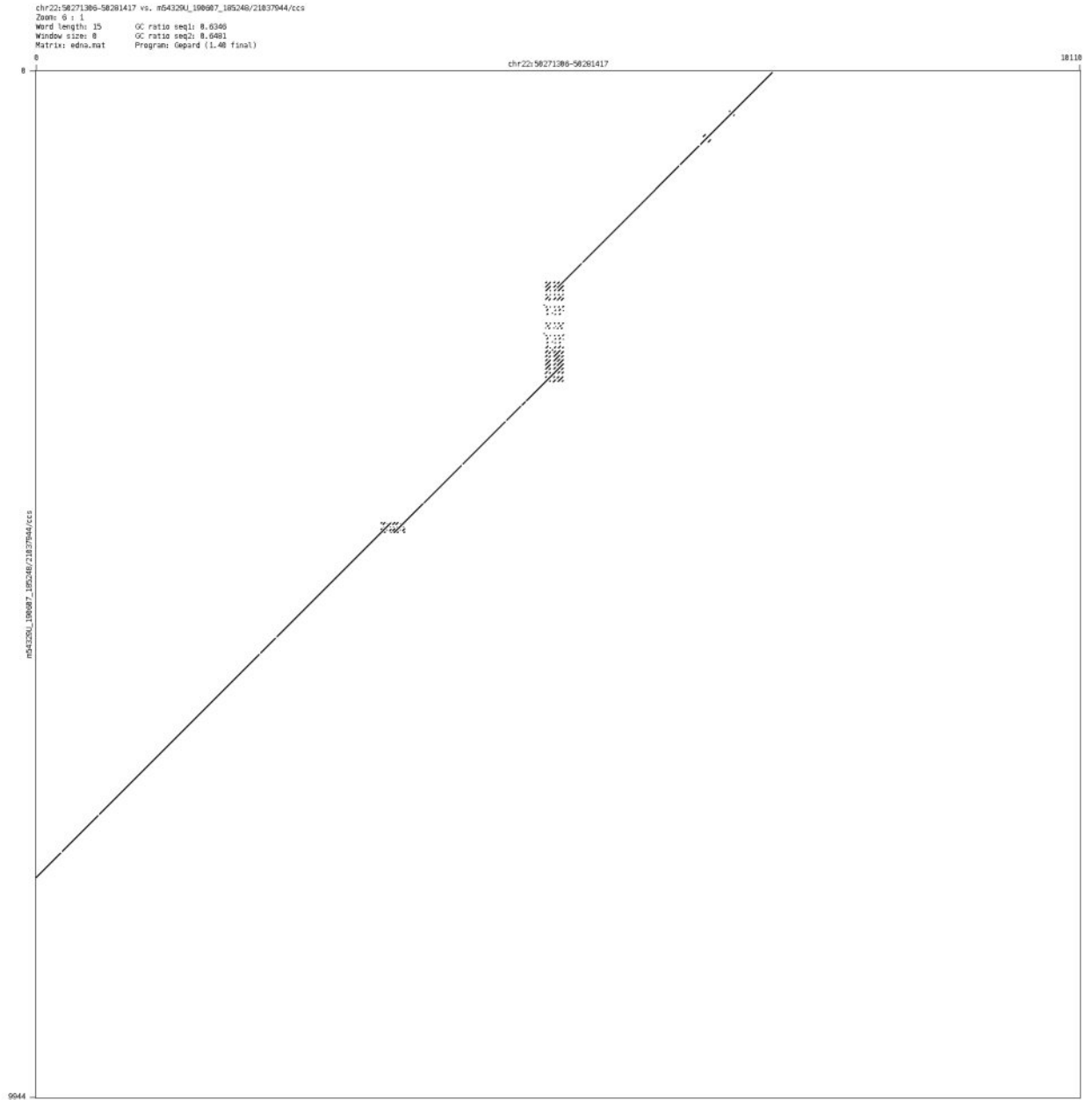
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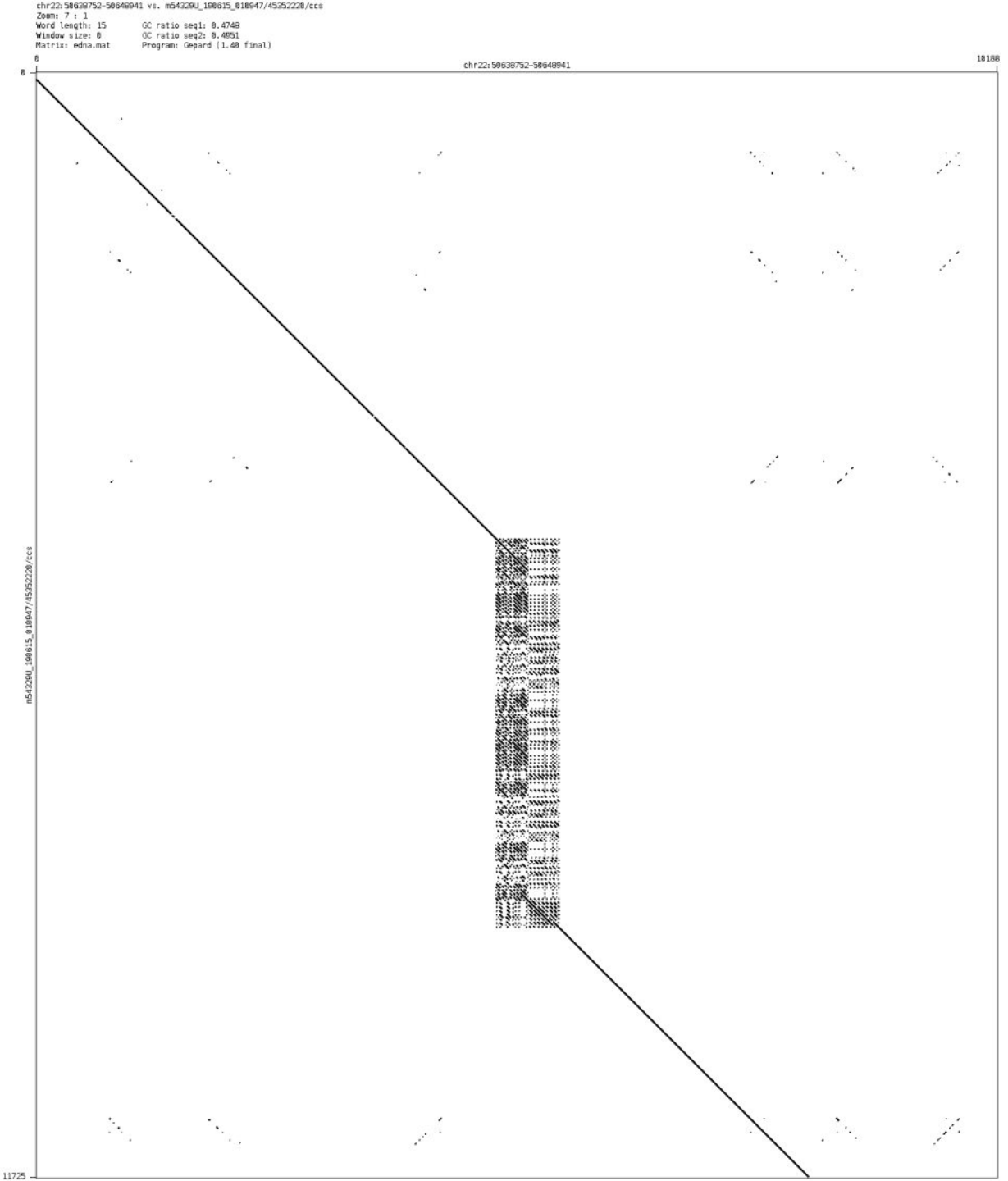
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➤ chr22\_50276306\_50276417



➤ chr22\_50643752\_50643941



➤ chr22\_50807923\_50808081

