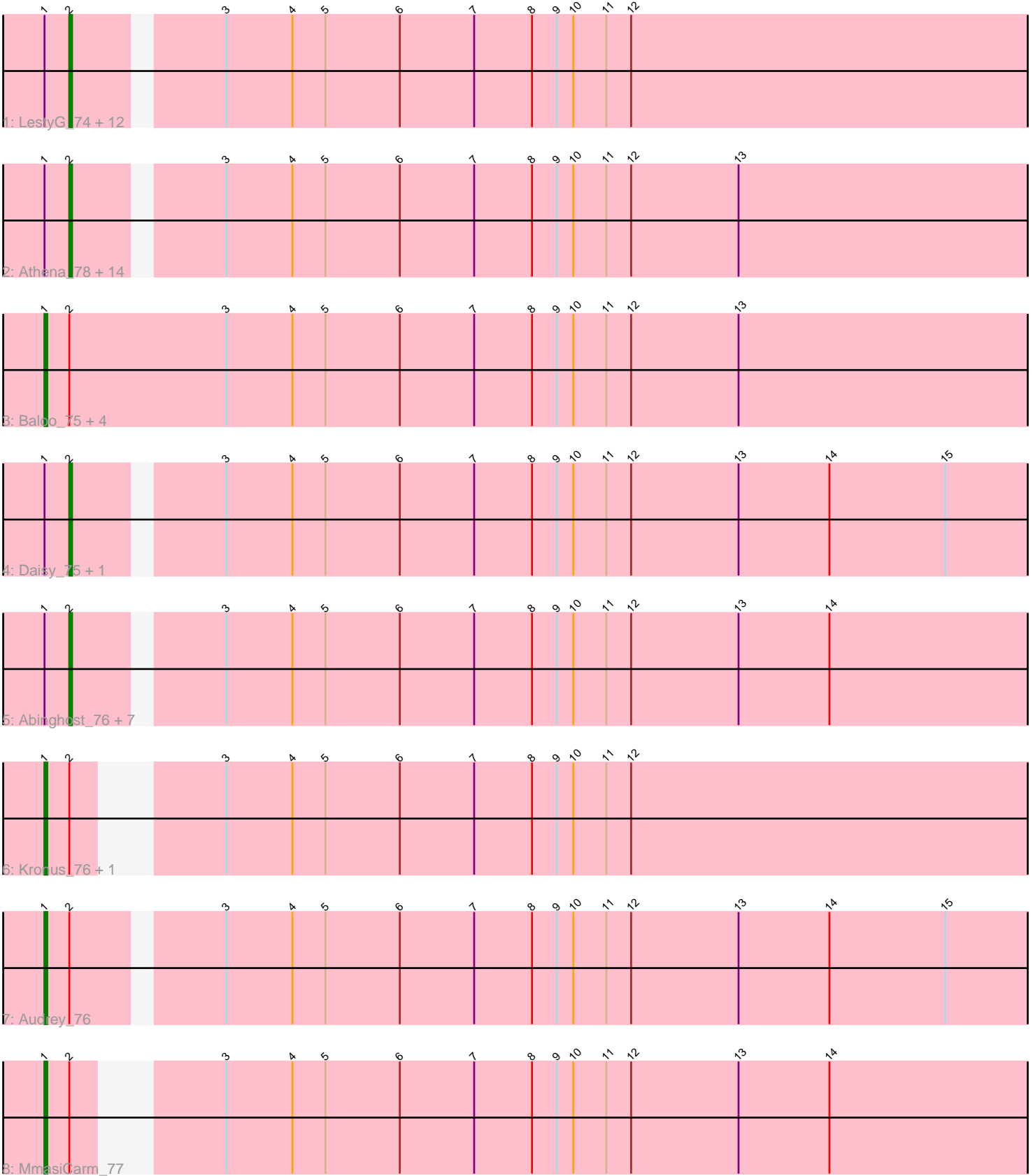


Pham 129396



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 129396 Report

This analysis was run 04/28/24 on database version 559.

Pham number 129396 has 47 members, 3 are drafts.

Phages represented in each track:

- Track 1 : LestyG_74, Tydolla_72, Jackstina_71, Akoma_76, HarveySr_75, Philly_75, Casbah_76, Kamiyu_76, Neos5_76, Yinz_76, GlenHope_77, Phaedrus_71, Mortcellus_76
- Track 2 : Athena_78, Briakila_76, Ben11_76, Gervas_77, Corofin_76, RomaT_76, Morty007_75, SlippinJimmy_79, Marley1013_77, Halfpint_76, Phlyer_76, Pipefish_78, Obutu_78, Rita1961_77, Compostia_75
- Track 3 : Baloo_75, Deenasa_76, Nozo_76, OrangeOswald_76, ChaChing_76
- Track 4 : Daisy_75, Heathcliff_76
- Track 5 : Abinghost_76, Devonte_75, Gadget_77, Yahalom_74, Bernardo_77, Chandler_76, SynergyX_76, RagingRooster_75
- Track 6 : Kronus_76, Phayeta_79
- Track 7 : Audrey_76
- Track 8 : MmasiCarm_77

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 2, it was called in 35 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_76, Akoma_76, Athena_78, Ben11_76, Bernardo_77, Briakila_76, Casbah_76, Chandler_76, Compostia_75, Corofin_76, Daisy_75, Devonte_75, Gadget_77, Gervas_77, GlenHope_77, Halfpint_76, HarveySr_75, Heathcliff_76, Jackstina_71, Kamiyu_76, LestyG_74, Marley1013_77, Mortcellus_76, Morty007_75, Neos5_76, Obutu_78, Phaedrus_71, Philly_75, Phlyer_76, Pipefish_78, RagingRooster_75, Rita1961_77, RomaT_76, SlippinJimmy_79, SynergyX_76, Tydolla_72, Yahalom_74, Yinz_76,

Genes that have the "Most Annotated" start but do not call it:

- Audrey_76, Baloo_75, ChaChing_76, Deenasa_76, Kronus_76, MmasiCarm_77, Nozo_76, OrangeOswald_76, Phayeta_79,

Genes that do not have the "Most Annotated" start:

-

Summary by start number:

Start 1:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 44
- Called 19.1% of time when present
- Phage (with cluster) where this start called: Audrey_76 (B3), Baloo_75 (B3), ChaChing_76 (B3), Deenasa_76 (B3), Kronus_76 (B3), MmasiCarm_77 (B3), Nozo_76 (B3), OrangeOswald_76 (B3), Phayeta_79 (B3),

Start 2:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 35 of 44
- Called 80.9% of time when present
- Phage (with cluster) where this start called: Abinghost_76 (B3), Akoma_76 (B3), Athena_78 (B3), Ben11_76 (B3), Bernardo_77 (B3), Briakila_76 (B3), Casbah_76 (B3), Chandler_76 (B3), Compostia_75 (B3), Corofin_76 (B3), Daisy_75 (B3), Devonte_75 (B3), Gadget_77 (B3), Gervas_77 (B3), GlenHope_77 (B3), Halfpint_76 (B3), HarveySr_75 (B3), Heathcliff_76 (B3), Jackstina_71 (B3), Kamiyu_76 (B3), LestyG_74 (B3), Marley1013_77 (B3), Mortcellus_76 (B3), Morty007_75 (B3), Neos5_76 (B3), Obutu_78 (B3), Phaedruss_71 (B3), Philly_75 (B3), Phlyer_76 (B3), Pipefish_78 (B3), RagingRooster_75 (B3), Rita1961_77 (B3), RomaT_76 (B3), SlippinJimmy_79 (B3), SynergyX_76 (B3), Tydolla_72 (B3), Yahalom_74 (B3), Yinz_76 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 1 was manually annotated 9 times for cluster B3.
- Start number 2 was manually annotated 35 times for cluster B3.

Gene Information:

Gene: Abinghost_76 Start: 59516, Stop: 59863, Start Num: 2

Candidate Starts for Abinghost_76:

(Start: 1 @59507 has 9 MA's), (Start: 2 @59516 has 35 MA's), (3, 59564), (4, 59588), (5, 59600), (6, 59627), (7, 59654), (8, 59675), (9, 59684), (10, 59690), (11, 59702), (12, 59711), (13, 59750), (14, 59783),

Gene: Akoma_76 Start: 59556, Stop: 59903, Start Num: 2

Candidate Starts for Akoma_76:

(Start: 1 @59547 has 9 MA's), (Start: 2 @59556 has 35 MA's), (3, 59604), (4, 59628), (5, 59640), (6, 59667), (7, 59694), (8, 59715), (9, 59724), (10, 59730), (11, 59742), (12, 59751),

Gene: Athena_78 Start: 60291, Stop: 60638, Start Num: 2

Candidate Starts for Athena_78:

(Start: 1 @60282 has 9 MA's), (Start: 2 @60291 has 35 MA's), (3, 60339), (4, 60363), (5, 60375), (6, 60402), (7, 60429), (8, 60450), (9, 60459), (10, 60465), (11, 60477), (12, 60486), (13, 60525),

Gene: Audrey_76 Start: 59536, Stop: 59892, Start Num: 1

Candidate Starts for Audrey_76:

(Start: 1 @59536 has 9 MA's), (Start: 2 @59545 has 35 MA's), (3, 59593), (4, 59617), (5, 59629), (6, 59656), (7, 59683), (8, 59704), (9, 59713), (10, 59719), (11, 59731), (12, 59740), (13, 59779), (14, 59812), (15, 59854),

Gene: Baloo_75 Start: 59379, Stop: 59744, Start Num: 1

Candidate Starts for Baloo_75:

(Start: 1 @59379 has 9 MA's), (Start: 2 @59388 has 35 MA's), (3, 59445), (4, 59469), (5, 59481), (6, 59508), (7, 59535), (8, 59556), (9, 59565), (10, 59571), (11, 59583), (12, 59592), (13, 59631),

Gene: Ben11_76 Start: 59772, Stop: 60119, Start Num: 2

Candidate Starts for Ben11_76:

(Start: 1 @59763 has 9 MA's), (Start: 2 @59772 has 35 MA's), (3, 59820), (4, 59844), (5, 59856), (6, 59883), (7, 59910), (8, 59931), (9, 59940), (10, 59946), (11, 59958), (12, 59967), (13, 60006),

Gene: Bernardo_77 Start: 59747, Stop: 60082, Start Num: 2

Candidate Starts for Bernardo_77:

(Start: 1 @59738 has 9 MA's), (Start: 2 @59747 has 35 MA's), (3, 59783), (4, 59807), (5, 59819), (6, 59846), (7, 59873), (8, 59894), (9, 59903), (10, 59909), (11, 59921), (12, 59930), (13, 59969), (14, 60002),

Gene: Briakila_76 Start: 59755, Stop: 60090, Start Num: 2

Candidate Starts for Briakila_76:

(Start: 1 @59746 has 9 MA's), (Start: 2 @59755 has 35 MA's), (3, 59791), (4, 59815), (5, 59827), (6, 59854), (7, 59881), (8, 59902), (9, 59911), (10, 59917), (11, 59929), (12, 59938), (13, 59977),

Gene: Casbah_76 Start: 59856, Stop: 60203, Start Num: 2

Candidate Starts for Casbah_76:

(Start: 1 @59847 has 9 MA's), (Start: 2 @59856 has 35 MA's), (3, 59904), (4, 59928), (5, 59940), (6, 59967), (7, 59994), (8, 60015), (9, 60024), (10, 60030), (11, 60042), (12, 60051),

Gene: ChaChing_76 Start: 59564, Stop: 59908, Start Num: 1

Candidate Starts for ChaChing_76:

(Start: 1 @59564 has 9 MA's), (Start: 2 @59573 has 35 MA's), (3, 59609), (4, 59633), (5, 59645), (6, 59672), (7, 59699), (8, 59720), (9, 59729), (10, 59735), (11, 59747), (12, 59756), (13, 59795),

Gene: Chandler_76 Start: 60332, Stop: 60679, Start Num: 2

Candidate Starts for Chandler_76:

(Start: 1 @60323 has 9 MA's), (Start: 2 @60332 has 35 MA's), (3, 60380), (4, 60404), (5, 60416), (6, 60443), (7, 60470), (8, 60491), (9, 60500), (10, 60506), (11, 60518), (12, 60527), (13, 60566), (14, 60599),

Gene: Compostia_75 Start: 60001, Stop: 60348, Start Num: 2

Candidate Starts for Compostia_75:

(Start: 1 @59992 has 9 MA's), (Start: 2 @60001 has 35 MA's), (3, 60049), (4, 60073), (5, 60085), (6, 60112), (7, 60139), (8, 60160), (9, 60169), (10, 60175), (11, 60187), (12, 60196), (13, 60235),

Gene: Corofin_76 Start: 59579, Stop: 59914, Start Num: 2

Candidate Starts for Corofin_76:

(Start: 1 @59570 has 9 MA's), (Start: 2 @59579 has 35 MA's), (3, 59615), (4, 59639), (5, 59651), (6, 59678), (7, 59705), (8, 59726), (9, 59735), (10, 59741), (11, 59753), (12, 59762), (13, 59801),

Gene: Daisy_75 Start: 59118, Stop: 59465, Start Num: 2

Candidate Starts for Daisy_75:

(Start: 1 @59109 has 9 MA's), (Start: 2 @59118 has 35 MA's), (3, 59166), (4, 59190), (5, 59202), (6, 59229), (7, 59256), (8, 59277), (9, 59286), (10, 59292), (11, 59304), (12, 59313), (13, 59352), (14, 59385), (15, 59427),

Gene: Deenasa_76 Start: 60458, Stop: 60814, Start Num: 1

Candidate Starts for Deenasa_76:

(Start: 1 @60458 has 9 MA's), (Start: 2 @60467 has 35 MA's), (3, 60515), (4, 60539), (5, 60551), (6, 60578), (7, 60605), (8, 60626), (9, 60635), (10, 60641), (11, 60653), (12, 60662), (13, 60701),

Gene: Devonte_75 Start: 59195, Stop: 59530, Start Num: 2

Candidate Starts for Devonte_75:

(Start: 1 @59186 has 9 MA's), (Start: 2 @59195 has 35 MA's), (3, 59231), (4, 59255), (5, 59267), (6, 59294), (7, 59321), (8, 59342), (9, 59351), (10, 59357), (11, 59369), (12, 59378), (13, 59417), (14, 59450),

Gene: Gadget_77 Start: 59930, Stop: 60265, Start Num: 2

Candidate Starts for Gadget_77:

(Start: 1 @59921 has 9 MA's), (Start: 2 @59930 has 35 MA's), (3, 59966), (4, 59990), (5, 60002), (6, 60029), (7, 60056), (8, 60077), (9, 60086), (10, 60092), (11, 60104), (12, 60113), (13, 60152), (14, 60185),

Gene: Gervas_77 Start: 60024, Stop: 60359, Start Num: 2

Candidate Starts for Gervas_77:

(Start: 1 @60015 has 9 MA's), (Start: 2 @60024 has 35 MA's), (3, 60060), (4, 60084), (5, 60096), (6, 60123), (7, 60150), (8, 60171), (9, 60180), (10, 60186), (11, 60198), (12, 60207), (13, 60246),

Gene: GlenHope_77 Start: 59591, Stop: 59938, Start Num: 2

Candidate Starts for GlenHope_77:

(Start: 1 @59582 has 9 MA's), (Start: 2 @59591 has 35 MA's), (3, 59639), (4, 59663), (5, 59675), (6, 59702), (7, 59729), (8, 59750), (9, 59759), (10, 59765), (11, 59777), (12, 59786),

Gene: Halfpint_76 Start: 59333, Stop: 59680, Start Num: 2

Candidate Starts for Halfpint_76:

(Start: 1 @59324 has 9 MA's), (Start: 2 @59333 has 35 MA's), (3, 59381), (4, 59405), (5, 59417), (6, 59444), (7, 59471), (8, 59492), (9, 59501), (10, 59507), (11, 59519), (12, 59528), (13, 59567),

Gene: HarveySr_75 Start: 59102, Stop: 59449, Start Num: 2

Candidate Starts for HarveySr_75:

(Start: 1 @59093 has 9 MA's), (Start: 2 @59102 has 35 MA's), (3, 59150), (4, 59174), (5, 59186), (6, 59213), (7, 59240), (8, 59261), (9, 59270), (10, 59276), (11, 59288), (12, 59297),

Gene: Heathcliff_76 Start: 59512, Stop: 59859, Start Num: 2

Candidate Starts for Heathcliff_76:

(Start: 1 @59503 has 9 MA's), (Start: 2 @59512 has 35 MA's), (3, 59560), (4, 59584), (5, 59596), (6, 59623), (7, 59650), (8, 59671), (9, 59680), (10, 59686), (11, 59698), (12, 59707), (13, 59746), (14, 59779), (15, 59821),

Gene: Jackstina_71 Start: 59438, Stop: 59773, Start Num: 2

Candidate Starts for Jackstina_71:

(Start: 1 @59429 has 9 MA's), (Start: 2 @59438 has 35 MA's), (3, 59474), (4, 59498), (5, 59510), (6, 59537), (7, 59564), (8, 59585), (9, 59594), (10, 59600), (11, 59612), (12, 59621),

Gene: Kamiyu_76 Start: 59515, Stop: 59862, Start Num: 2

Candidate Starts for Kamiyu_76:

(Start: 1 @59506 has 9 MA's), (Start: 2 @59515 has 35 MA's), (3, 59563), (4, 59587), (5, 59599), (6, 59626), (7, 59653), (8, 59674), (9, 59683), (10, 59689), (11, 59701), (12, 59710),

Gene: Kronus_76 Start: 60602, Stop: 60946, Start Num: 1

Candidate Starts for Kronus_76:

(Start: 1 @60602 has 9 MA's), (Start: 2 @60611 has 35 MA's), (3, 60647), (4, 60671), (5, 60683), (6, 60710), (7, 60737), (8, 60758), (9, 60767), (10, 60773), (11, 60785), (12, 60794),

Gene: LestyG_74 Start: 59085, Stop: 59432, Start Num: 2

Candidate Starts for LestyG_74:

(Start: 1 @59076 has 9 MA's), (Start: 2 @59085 has 35 MA's), (3, 59133), (4, 59157), (5, 59169), (6, 59196), (7, 59223), (8, 59244), (9, 59253), (10, 59259), (11, 59271), (12, 59280),

Gene: Marley1013_77 Start: 60463, Stop: 60798, Start Num: 2

Candidate Starts for Marley1013_77:

(Start: 1 @60454 has 9 MA's), (Start: 2 @60463 has 35 MA's), (3, 60499), (4, 60523), (5, 60535), (6, 60562), (7, 60589), (8, 60610), (9, 60619), (10, 60625), (11, 60637), (12, 60646), (13, 60685),

Gene: MmasiCarm_77 Start: 59957, Stop: 60301, Start Num: 1

Candidate Starts for MmasiCarm_77:

(Start: 1 @59957 has 9 MA's), (Start: 2 @59966 has 35 MA's), (3, 60002), (4, 60026), (5, 60038), (6, 60065), (7, 60092), (8, 60113), (9, 60122), (10, 60128), (11, 60140), (12, 60149), (13, 60188), (14, 60221),

Gene: Mortcellus_76 Start: 60670, Stop: 61017, Start Num: 2

Candidate Starts for Mortcellus_76:

(Start: 1 @60661 has 9 MA's), (Start: 2 @60670 has 35 MA's), (3, 60718), (4, 60742), (5, 60754), (6, 60781), (7, 60808), (8, 60829), (9, 60838), (10, 60844), (11, 60856), (12, 60865),

Gene: Morty007_75 Start: 60463, Stop: 60798, Start Num: 2

Candidate Starts for Morty007_75:

(Start: 1 @60454 has 9 MA's), (Start: 2 @60463 has 35 MA's), (3, 60499), (4, 60523), (5, 60535), (6, 60562), (7, 60589), (8, 60610), (9, 60619), (10, 60625), (11, 60637), (12, 60646), (13, 60685),

Gene: Neos5_76 Start: 59925, Stop: 60260, Start Num: 2

Candidate Starts for Neos5_76:

(Start: 1 @59916 has 9 MA's), (Start: 2 @59925 has 35 MA's), (3, 59961), (4, 59985), (5, 59997), (6, 60024), (7, 60051), (8, 60072), (9, 60081), (10, 60087), (11, 60099), (12, 60108),

Gene: Nozo_76 Start: 60313, Stop: 60669, Start Num: 1

Candidate Starts for Nozo_76:

(Start: 1 @60313 has 9 MA's), (Start: 2 @60322 has 35 MA's), (3, 60370), (4, 60394), (5, 60406), (6, 60433), (7, 60460), (8, 60481), (9, 60490), (10, 60496), (11, 60508), (12, 60517), (13, 60556),

Gene: Obutu_78 Start: 60137, Stop: 60472, Start Num: 2

Candidate Starts for Obutu_78:

(Start: 1 @60128 has 9 MA's), (Start: 2 @60137 has 35 MA's), (3, 60173), (4, 60197), (5, 60209), (6, 60236), (7, 60263), (8, 60284), (9, 60293), (10, 60299), (11, 60311), (12, 60320), (13, 60359),

Gene: OrangeOswald_76 Start: 59547, Stop: 59903, Start Num: 1

Candidate Starts for OrangeOswald_76:

(Start: 1 @59547 has 9 MA's), (Start: 2 @59556 has 35 MA's), (3, 59604), (4, 59628), (5, 59640), (6, 59667), (7, 59694), (8, 59715), (9, 59724), (10, 59730), (11, 59742), (12, 59751), (13, 59790),

Gene: Phaedrus_71 Start: 58985, Stop: 59320, Start Num: 2

Candidate Starts for Phaedrus_71:

(Start: 1 @58976 has 9 MA's), (Start: 2 @58985 has 35 MA's), (3, 59021), (4, 59045), (5, 59057), (6, 59084), (7, 59111), (8, 59132), (9, 59141), (10, 59147), (11, 59159), (12, 59168),

Gene: Phayeta_79 Start: 60033, Stop: 60389, Start Num: 1

Candidate Starts for Phayeta_79:

(Start: 1 @60033 has 9 MA's), (Start: 2 @60042 has 35 MA's), (3, 60090), (4, 60114), (5, 60126), (6, 60153), (7, 60180), (8, 60201), (9, 60210), (10, 60216), (11, 60228), (12, 60237),

Gene: Philly_75 Start: 59417, Stop: 59752, Start Num: 2

Candidate Starts for Philly_75:

(Start: 1 @59408 has 9 MA's), (Start: 2 @59417 has 35 MA's), (3, 59453), (4, 59477), (5, 59489), (6, 59516), (7, 59543), (8, 59564), (9, 59573), (10, 59579), (11, 59591), (12, 59600),

Gene: Phlyer_76 Start: 60268, Stop: 60615, Start Num: 2

Candidate Starts for Phlyer_76:

(Start: 1 @60259 has 9 MA's), (Start: 2 @60268 has 35 MA's), (3, 60316), (4, 60340), (5, 60352), (6, 60379), (7, 60406), (8, 60427), (9, 60436), (10, 60442), (11, 60454), (12, 60463), (13, 60502),

Gene: Pipefish_78 Start: 60676, Stop: 61011, Start Num: 2

Candidate Starts for Pipefish_78:

(Start: 1 @60667 has 9 MA's), (Start: 2 @60676 has 35 MA's), (3, 60712), (4, 60736), (5, 60748), (6, 60775), (7, 60802), (8, 60823), (9, 60832), (10, 60838), (11, 60850), (12, 60859), (13, 60898),

Gene: RagingRooster_75 Start: 59248, Stop: 59595, Start Num: 2

Candidate Starts for RagingRooster_75:

(Start: 1 @59239 has 9 MA's), (Start: 2 @59248 has 35 MA's), (3, 59296), (4, 59320), (5, 59332), (6, 59359), (7, 59386), (8, 59407), (9, 59416), (10, 59422), (11, 59434), (12, 59443), (13, 59482), (14, 59515),

Gene: Rita1961_77 Start: 59914, Stop: 60249, Start Num: 2

Candidate Starts for Rita1961_77:

(Start: 1 @59905 has 9 MA's), (Start: 2 @59914 has 35 MA's), (3, 59950), (4, 59974), (5, 59986), (6, 60013), (7, 60040), (8, 60061), (9, 60070), (10, 60076), (11, 60088), (12, 60097), (13, 60136),

Gene: RomaT_76 Start: 60122, Stop: 60469, Start Num: 2

Candidate Starts for RomaT_76:

(Start: 1 @60113 has 9 MA's), (Start: 2 @60122 has 35 MA's), (3, 60170), (4, 60194), (5, 60206), (6, 60233), (7, 60260), (8, 60281), (9, 60290), (10, 60296), (11, 60308), (12, 60317), (13, 60356),

Gene: SlippinJimmy_79 Start: 60944, Stop: 61279, Start Num: 2

Candidate Starts for SlippinJimmy_79:

(Start: 1 @60935 has 9 MA's), (Start: 2 @60944 has 35 MA's), (3, 60980), (4, 61004), (5, 61016), (6, 61043), (7, 61070), (8, 61091), (9, 61100), (10, 61106), (11, 61118), (12, 61127), (13, 61166),

Gene: SynergyX_76 Start: 59559, Stop: 59906, Start Num: 2

Candidate Starts for SynergyX_76:

(Start: 1 @59550 has 9 MA's), (Start: 2 @59559 has 35 MA's), (3, 59607), (4, 59631), (5, 59643), (6, 59670), (7, 59697), (8, 59718), (9, 59727), (10, 59733), (11, 59745), (12, 59754), (13, 59793), (14, 59826),

Gene: Tydolla_72 Start: 59550, Stop: 59885, Start Num: 2

Candidate Starts for Tydolla_72:

(Start: 1 @59541 has 9 MA's), (Start: 2 @59550 has 35 MA's), (3, 59586), (4, 59610), (5, 59622), (6, 59649), (7, 59676), (8, 59697), (9, 59706), (10, 59712), (11, 59724), (12, 59733),

Gene: Yahalom_74 Start: 59365, Stop: 59712, Start Num: 2

Candidate Starts for Yahalom_74:

(Start: 1 @59356 has 9 MA's), (Start: 2 @59365 has 35 MA's), (3, 59413), (4, 59437), (5, 59449), (6, 59476), (7, 59503), (8, 59524), (9, 59533), (10, 59539), (11, 59551), (12, 59560), (13, 59599), (14, 59632),

Gene: Yinz_76 Start: 59430, Stop: 59777, Start Num: 2

Candidate Starts for Yinz_76:

(Start: 1 @59421 has 9 MA's), (Start: 2 @59430 has 35 MA's), (3, 59478), (4, 59502), (5, 59514), (6, 59541), (7, 59568), (8, 59589), (9, 59598), (10, 59604), (11, 59616), (12, 59625),