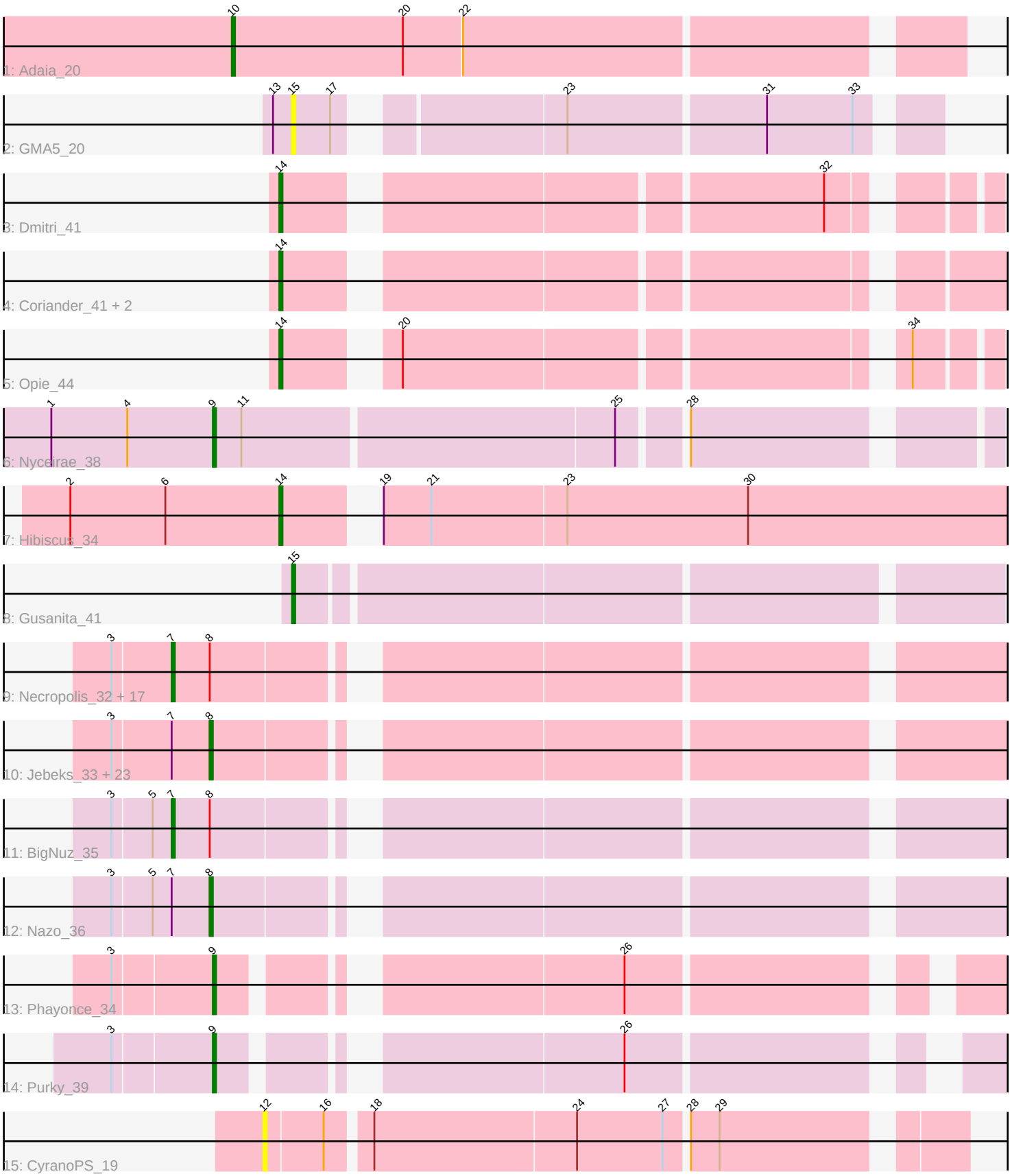
Pham 194047


1: Adaia_20
2: GMA5_20
3: Dmitri_41
4: Coriander_41 + 2
5: Opie_44
6: Nyceirae_38
7: Hibiscus_34
8: Gusanita_41
9: Necropolis_32 + 17
10: Jebeks_33 + 23
11: BigNuz_35
12: Nazo_36
13: Phayonce_34
14: Purky_39
15: CyranoPS_19

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 194047 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194047 has 57 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Adaia_20
• Track 2 : GMA5_20
• Track 3 : Dmitri_41
• Track 4 : Coriander_41, TaronosaurasRx_43, Doggs_38
• Track 5 : Opie_44
• Track 6 : Nyceirae_38
• Track 7 : Hibiscus_34
• Track 8 : Gusanita_41
• Track 9 : Necropolis_32, Venti_32, Fishburne_32, Majeke_32, Arib1_32, Langerak_32, Donovan_32, Mangethe_32, StevieRay_32, Bunnies_32, Thespis_32, Atcoo_32, Zilizebeth_32, Kari_32, Willsammy_31, Phegasus_32, FirstPlacePfu_32, Juniormint_32
• Track 10 : Jebeks_33, Bogie_34, Polkaroo_32, KilKor_32, Brusacoram_32, Dynamo_32, GreaseLightnin_32, Phalm_32, Pygmy_34, Techage_32, Ksquared_32, Phineas_32, Camster_32, Sonah_32, Malithi_32, HUHilltop_32, CactusJack_32, StressBall_32, Vidya_32, Glaske_32, Bartholomew_31, Shipwreck_34, Jung_31, Megiddo_32
• Track 11 : BigNuz_35
• Track 12 : Nazo_36
• Track 13 : Phayonce_34
• Track 14 : Purky_39
• Track 15 : CyranoPS_19

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

The start number called the most often in the published annotations is 8, it was called in 23 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bartholomew_31, Bogie_34, Brusacoram_32, CactusJack_32, Camster_32, Dynamo_32, Glaske_32, GreaseLightnin_32, HUHilltop_32, Jebeks_33, Jung_31, KilKor_32, Ksquared_32, Malithi_32, Megiddo_32, Nazo_36, Phalm_32, Phineas_32, Polkaroo_32, Pygmy_34, Shipwreck_34, Sonah_32, StressBall_32, Techage_32, Vidya_32,

Genes that have the "Most Annotated" start but do not call it:
• Arib1_32, Atcoo_32, BigNuz_35, Bunnies_32, Donovan_32, FirstPlacePfu_32, Fishburne_32, Juniormint_32, Kari_32, Langerak_32, Majeke_32, Mangethe_32, Necropolis_32, Phegasus_32, StevieRay_32, Thespis_32, Venti_32, Willsammy_31, Zilizebeth_32,

Genes that do not have the "Most Annotated" start:
• Adaia_20, Coriander_41, CyranoPS_19, Dmitri_41, Doggs_38, GMA5_20, Gusanita_41, Hibiscus_34, Nyceirae_38, Opie_44, Phayonce_34, Purky_39, TaronosaurasRx_43,

Summary by start number:

Start 7:
• Found in 44 of 57 (77.2%) of genes in pham
• Manual Annotations of this start: 18 of 50
• Called 43.2% of time when present
• Phage (with cluster) where this start called: Arib1_32 (P1), Atcoo_32 (P1), BigNuz_35 (P4), Bunnies_32 (P1), Donovan_32 (P1), FirstPlacePfu_32 (P1), Fishburne_32 (P1), Juniormint_32 (P1), Kari_32 (P1), Langerak_32 (P1), Majeke_32 (P1), Mangethe_32 (P1), Necropolis_32 (P1), Phegasus_32 (P1), StevieRay_32 (P1), Thespis_32 (P1), Venti_32 (P1), Willsammy_31 (P1), Zilizebeth_32 (P1),

Start 8:
• Found in 44 of 57 (77.2%) of genes in pham
• Manual Annotations of this start: 23 of 50
• Called 56.8% of time when present
• Phage (with cluster) where this start called: Bartholomew_31 (P1), Bogie_34 (P1), Brusacoram_32 (P1), CactusJack_32 (P1), Camster_32 (P1), Dynamo_32 (P1), Glaske_32 (P1), GreaseLightnin_32 (P1), HUHilltop_32 (P1), Jebeks_33 (P1), Jung_31 (P1), KilKor_32 (P1), Ksquared_32 (P1), Malithi_32 (P1), Megiddo_32 (P1), Nazo_36 (P4), Phalm_32 (P1), Phineas_32 (P1), Polkaroo_32 (P1), Pygmy_34 (P1), Shipwreck_34 (P1), Sonah_32 (P1), StressBall_32 (P1), Techage_32 (P1), Vidya_32 (P1),

Start 9:
• Found in 3 of 57 (5.3%) of genes in pham
• Manual Annotations of this start: 3 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nyceirae_38 (DT), Phayonce_34 (P5), Purky_39 (P6),

Start 10:
• Found in 1 of 57 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adaia_20 (AX),

Start 12:
• Found in 1 of 57 (1.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: CyranoPS_19 (singleton),

Start 14:
• Found in 6 of 57 (10.5%) of genes in pham
• Manual Annotations of this start: 4 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coriander_41 (DB), Dmitri_41 (DB), Doggs_38 (DB), Hibiscus_34 (DY), Opie_44 (DB), TaronosaurasRx_43 (DB),

Start 15:
• Found in 2 of 57 (3.5%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA5_20 (CW2), Gusanita_41 (FF),

Summary by clusters:

There are 11 clusters represented in this pham: singleton, P1, P6, P4, P5, CW2, DB, FF, DY, AX, DT,

Info for manual annotations of cluster AX:
•Start number 10 was manually annotated 1 time for cluster AX.

Info for manual annotations of cluster DB:
•Start number 14 was manually annotated 3 times for cluster DB.

Info for manual annotations of cluster DT:
•Start number 9 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DY:
•Start number 14 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster FF:
•Start number 15 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster P1:
•Start number 7 was manually annotated 17 times for cluster P1.
•Start number 8 was manually annotated 22 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 7 was manually annotated 1 time for cluster P4.
•Start number 8 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P5:
•Start number 9 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 9 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Adaia_20 Start: 13289, Stop: 13507, Start Num: 10
Candidate Starts for Adaia_20:
(Start: 10 @13289 has 1 MA's), (20, 13343), (22, 13361),

Gene: Arib1_32 Start: 27470, Stop: 27715, Start Num: 7
Candidate Starts for Arib1_32:
(3, 27452), (Start: 7 @27470 has 18 MA's), (Start: 8 @27482 has 23 MA's),

Gene: Atcoo_32 Start: 27951, Stop: 28196, Start Num: 7
Candidate Starts for Atcoo_32:
(3, 27933), (Start: 7 @27951 has 18 MA's), (Start: 8 @27963 has 23 MA's),

Gene: Bartholomew_31 Start: 27476, Stop: 27709, Start Num: 8
Candidate Starts for Bartholomew_31:
(3, 27446), (Start: 7 @27464 has 18 MA's), (Start: 8 @27476 has 23 MA's),

Gene: BigNuz_35 Start: 29592, Stop: 29837, Start Num: 7
Candidate Starts for BigNuz_35:
(3, 29574), (5, 29586), (Start: 7 @29592 has 18 MA's), (Start: 8 @29604 has 23 MA's),

Gene: Bogie_34 Start: 29259, Stop: 29492, Start Num: 8
Candidate Starts for Bogie_34:
(3, 29229), (Start: 7 @29247 has 18 MA's), (Start: 8 @29259 has 23 MA's),

Gene: Brusacoram_32 Start: 27469, Stop: 27702, Start Num: 8
Candidate Starts for Brusacoram_32:
(3, 27439), (Start: 7 @27457 has 18 MA's), (Start: 8 @27469 has 23 MA's),

Gene: Bunnies_32 Start: 27478, Stop: 27723, Start Num: 7
Candidate Starts for Bunnies_32:
(3, 27460), (Start: 7 @27478 has 18 MA's), (Start: 8 @27490 has 23 MA's),

Gene: CactusJack_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for CactusJack_32:
(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: Camster_32 Start: 27506, Stop: 27739, Start Num: 8
Candidate Starts for Camster_32:
(3, 27476), (Start: 7 @27494 has 18 MA's), (Start: 8 @27506 has 23 MA's),

Gene: Coriander_41 Start: 31926, Stop: 32126, Start Num: 14
Candidate Starts for Coriander_41:
(Start: 14 @31926 has 4 MA's),

Gene: CyranoPS_19 Start: 12813, Stop: 13016, Start Num: 12
Candidate Starts for CyranoPS_19:
(12, 12813), (16, 12831), (18, 12843), (24, 12906), (27, 12933), (28, 12939), (29, 12948),

Gene: Dmitri_41 Start: 33516, Stop: 33710, Start Num: 14
Candidate Starts for Dmitri_41:
(Start: 14 @33516 has 4 MA's), (32, 33669),

Gene: Doggs_38 Start: 32655, Stop: 32855, Start Num: 14

Candidate Starts for Doggs_38:
(Start: 14 @32655 has 4 MA's),

Gene: Donovan_32 Start: 27486, Stop: 27731, Start Num: 7
Candidate Starts for Donovan_32:
(3, 27468), (Start: 7 @27486 has 18 MA's), (Start: 8 @27498 has 23 MA's),

Gene: Dynamo_32 Start: 27887, Stop: 28120, Start Num: 8
Candidate Starts for Dynamo_32:
(3, 27857), (Start: 7 @27875 has 18 MA's), (Start: 8 @27887 has 23 MA's),

Gene: FirstPlacePfu_32 Start: 27496, Stop: 27741, Start Num: 7
Candidate Starts for FirstPlacePfu_32:
(3, 27478), (Start: 7 @27496 has 18 MA's), (Start: 8 @27508 has 23 MA's),

Gene: Fishburne_32 Start: 27464, Stop: 27709, Start Num: 7
Candidate Starts for Fishburne_32:
(3, 27446), (Start: 7 @27464 has 18 MA's), (Start: 8 @27476 has 23 MA's),

Gene: GMA5_20 Start: 14712, Stop: 14891, Start Num: 15
Candidate Starts for GMA5_20:
(13, 14706), (Start: 15 @14712 has 1 MA's), (17, 14724), (23, 14784), (31, 14844), (33, 14871),

Gene: Glaske_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for Glaske_32:
(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: GreaseLightnin_32 Start: 27725, Stop: 27958, Start Num: 8
Candidate Starts for GreaseLightnin_32:
(3, 27695), (Start: 7 @27713 has 18 MA's), (Start: 8 @27725 has 23 MA's),

Gene: Gusanita_41 Start: 30644, Stop: 30853, Start Num: 15
Candidate Starts for Gusanita_41:
(Start: 15 @30644 has 1 MA's),

Gene: HUHilltop_32 Start: 27509, Stop: 27742, Start Num: 8
Candidate Starts for HUHilltop_32:
(3, 27479), (Start: 7 @27497 has 18 MA's), (Start: 8 @27509 has 23 MA's),

Gene: Hibiscus_34 Start: 25548, Stop: 25775, Start Num: 14
Candidate Starts for Hibiscus_34:
(2, 25482), (6, 25512), (Start: 14 @25548 has 4 MA's), (19, 25569), (21, 25584), (23, 25626), (30, 25683),

Gene: Jebeks_33 Start: 27461, Stop: 27694, Start Num: 8
Candidate Starts for Jebeks_33:
(3, 27431), (Start: 7 @27449 has 18 MA's), (Start: 8 @27461 has 23 MA's),

Gene: Jung_31 Start: 27440, Stop: 27673, Start Num: 8
Candidate Starts for Jung_31:
(3, 27410), (Start: 7 @27428 has 18 MA's), (Start: 8 @27440 has 23 MA's),

Gene: Juniormint_32 Start: 27500, Stop: 27745, Start Num: 7

Candidate Starts for Juniormint_32:
(3, 27482), (Start: 7 @27500 has 18 MA's), (Start: 8 @27512 has 23 MA's),

Gene: Kari_32 Start: 27461, Stop: 27706, Start Num: 7
Candidate Starts for Kari_32:
(3, 27443), (Start: 7 @27461 has 18 MA's), (Start: 8 @27473 has 23 MA's),

Gene: KilKor_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for KilKor_32:
(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: Ksquared_32 Start: 27490, Stop: 27723, Start Num: 8
Candidate Starts for Ksquared_32:
(3, 27460), (Start: 7 @27478 has 18 MA's), (Start: 8 @27490 has 23 MA's),

Gene: Langerak_32 Start: 27480, Stop: 27725, Start Num: 7
Candidate Starts for Langerak_32:
(3, 27462), (Start: 7 @27480 has 18 MA's), (Start: 8 @27492 has 23 MA's),

Gene: Majeke_32 Start: 27502, Stop: 27747, Start Num: 7
Candidate Starts for Majeke_32:
(3, 27484), (Start: 7 @27502 has 18 MA's), (Start: 8 @27514 has 23 MA's),

Gene: Malithi_32 Start: 27399, Stop: 27632, Start Num: 8
Candidate Starts for Malithi_32:
(3, 27369), (Start: 7 @27387 has 18 MA's), (Start: 8 @27399 has 23 MA's),

Gene: Mangethe_32 Start: 27502, Stop: 27747, Start Num: 7
Candidate Starts for Mangethe_32:
(3, 27484), (Start: 7 @27502 has 18 MA's), (Start: 8 @27514 has 23 MA's),

Gene: Megiddo_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for Megiddo_32:
(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: Nazo_36 Start: 29606, Stop: 29839, Start Num: 8
Candidate Starts for Nazo_36:
(3, 29576), (5, 29588), (Start: 7 @29594 has 18 MA's), (Start: 8 @29606 has 23 MA's),

Gene: Necropolis_32 Start: 27461, Stop: 27706, Start Num: 7
Candidate Starts for Necropolis_32:
(3, 27443), (Start: 7 @27461 has 18 MA's), (Start: 8 @27473 has 23 MA's),

Gene: Nyceirae_38 Start: 30354, Stop: 30581, Start Num: 9
Candidate Starts for Nyceirae_38:
(1, 30303), (4, 30327), (Start: 9 @30354 has 3 MA's), (11, 30363), (25, 30477), (28, 30495),

Gene: Opie_44 Start: 33313, Stop: 33507, Start Num: 14
Candidate Starts for Opie_44:
(Start: 14 @33313 has 4 MA's), (20, 33340), (34, 33484),

Gene: Phalm_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for Phalm_32:

(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: Phayonce_34 Start: 29517, Stop: 29735, Start Num: 9
Candidate Starts for Phayonce_34:
(3, 29487), (Start: 9 @29517 has 3 MA's), (26, 29625),

Gene: Phegasus_32 Start: 27469, Stop: 27714, Start Num: 7
Candidate Starts for Phegasus_32:
(3, 27451), (Start: 7 @27469 has 18 MA's), (Start: 8 @27481 has 23 MA's),

Gene: Phineas_32 Start: 27847, Stop: 28080, Start Num: 8
Candidate Starts for Phineas_32:
(3, 27817), (Start: 7 @27835 has 18 MA's), (Start: 8 @27847 has 23 MA's),

Gene: Polkaroo_32 Start: 27490, Stop: 27723, Start Num: 8
Candidate Starts for Polkaroo_32:
(3, 27460), (Start: 7 @27478 has 18 MA's), (Start: 8 @27490 has 23 MA's),

Gene: Purky_39 Start: 30247, Stop: 30462, Start Num: 9
Candidate Starts for Purky_39:
(3, 30217), (Start: 9 @30247 has 3 MA's), (26, 30355),

Gene: Pygmy_34 Start: 29315, Stop: 29548, Start Num: 8
Candidate Starts for Pygmy_34:
(3, 29285), (Start: 7 @29303 has 18 MA's), (Start: 8 @29315 has 23 MA's),

Gene: Shipwreck_34 Start: 29290, Stop: 29523, Start Num: 8
Candidate Starts for Shipwreck_34:
(3, 29260), (Start: 7 @29278 has 18 MA's), (Start: 8 @29290 has 23 MA's),

Gene: Sonah_32 Start: 27462, Stop: 27695, Start Num: 8
Candidate Starts for Sonah_32:
(3, 27432), (Start: 7 @27450 has 18 MA's), (Start: 8 @27462 has 23 MA's),

Gene: StevieRay_32 Start: 27429, Stop: 27674, Start Num: 7
Candidate Starts for StevieRay_32:
(3, 27411), (Start: 7 @27429 has 18 MA's), (Start: 8 @27441 has 23 MA's),

Gene: StressBall_32 Start: 27733, Stop: 27966, Start Num: 8
Candidate Starts for StressBall_32:
(3, 27703), (Start: 7 @27721 has 18 MA's), (Start: 8 @27733 has 23 MA's),

Gene: TaronosaurasRx_43 Start: 31715, Stop: 31909, Start Num: 14
Candidate Starts for TaronosaurasRx_43:
(Start: 14 @31715 has 4 MA's),

Gene: Techage_32 Start: 27499, Stop: 27732, Start Num: 8
Candidate Starts for Techage_32:
(3, 27469), (Start: 7 @27487 has 18 MA's), (Start: 8 @27499 has 23 MA's),

Gene: Thespis_32 Start: 27457, Stop: 27702, Start Num: 7
Candidate Starts for Thespis_32:
(3, 27439), (Start: 7 @27457 has 18 MA's), (Start: 8 @27469 has 23 MA's),

Gene: Venti_32 Start: 27464, Stop: 27709, Start Num: 7
Candidate Starts for Venti_32:
(3, 27446), (Start: 7 @27464 has 18 MA's), (Start: 8 @27476 has 23 MA's),

Gene: Vidya_32 Start: 27509, Stop: 27742, Start Num: 8
Candidate Starts for Vidya_32:
(3, 27479), (Start: 7 @27497 has 18 MA's), (Start: 8 @27509 has 23 MA's),

Gene: Willsammy_31 Start: 27204, Stop: 27449, Start Num: 7
Candidate Starts for Willsammy_31:
(3, 27186), (Start: 7 @27204 has 18 MA's), (Start: 8 @27216 has 23 MA's),

Gene: Zilizebeth_32 Start: 27496, Stop: 27741, Start Num: 7
Candidate Starts for Zilizebeth_32:
(3, 27478), (Start: 7 @27496 has 18 MA's), (Start: 8 @27508 has 23 MA's),