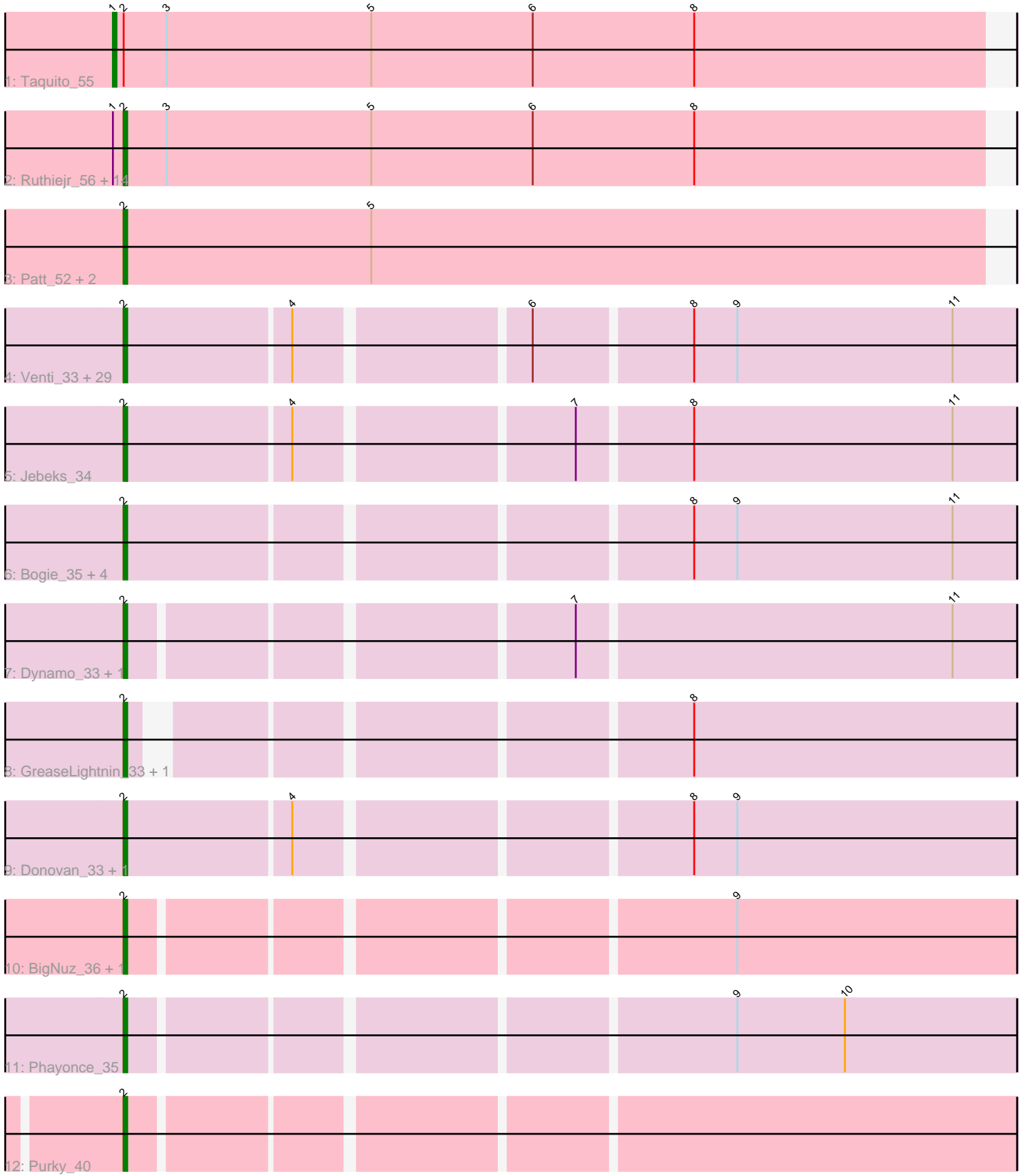


Pham 194003



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 194003 Report

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

Pham number 194003 has 65 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Taquito_55
- Track 2 : Ruthiejr_56, Malthus_56, Y10_54, Mitti_55, Fionnbharth_55, Slarp_55, Y2_54, Wintermute_55, Juliette_57, JF1_55, Cheetobro_55, OmniCritical_54, SamScheppers_53, Chancellor_55, Eponine_57
- Track 3 : Patt_52, MissDaisy_53, Reptar3000_53
- Track 4 : Venti_33, Fishburne_33, Polkaroo_33, Necropolis_33, KilKor_33, Brusacoram_33, Majeke_33, Willsammy_32, Phalm_33, Mangethe_33, Techage_33, Ksquared_33, Bunnies_33, Camster_33, Malithi_33, Sonah_33, Thespis_33, StressBall_33, CactusJack_33, Atcoo_33, Zilizebeth_33, Jung_32, Phegasus_33, Kari_33, Vidya_33, Glaske_33, FirstPlacePfu_33, Bartholomew_32, Megiddo_33, Juniormint_33
- Track 5 : Jebeks_34
- Track 6 : Bogie_35, Langerak_33, Arib1_33, Pygmy_35, Shipwreck_35
- Track 7 : Dynamo_33, Phineas_33
- Track 8 : GreaseLightnin_33, StevieRay_33
- Track 9 : Donovan_33, HUHilltop_33
- Track 10 : BigNuz_36, Nazo_37
- Track 11 : Phayonce_35
- Track 12 : Purky_40

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 61 of the 62 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1_33, Atcoo_33, Bartholomew_32, BigNuz_36, Bogie_35, Brusacoram_33, Bunnies_33, CactusJack_33, Camster_33, Chancellor_55, Cheetobro_55, Donovan_33, Dynamo_33, Eponine_57, Fionnbharth_55, FirstPlacePfu_33, Fishburne_33, Glaske_33, GreaseLightnin_33, HUHilltop_33, JF1_55, Jebeks_34, Juliette_57, Jung_32, Juniormint_33, Kari_33, KilKor_33, Ksquared_33, Langerak_33, Majeke_33, Malithi_33, Malthus_56, Mangethe_33, Megiddo_33, MissDaisy_53, Mitti_55, Nazo_37, Necropolis_33, OmniCritical_54, Patt_52, Phalm_33, Phayonce_35, Phegasus_33, Phineas_33, Polkaroo_33, Purky_40,

Pygmy_35, Reptar3000_53, Ruthiejr_56, SamScheppers_53, Shipwreck_35, Slarp_55, Sonah_33, StevieRay_33, StressBall_33, Techage_33, Thespis_33, Venti_33, Vidya_33, Willsammy_32, Wintermute_55, Y10_54, Y2_54, Zilizebeth_33,

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

- Taquito_55,

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

-

Summary by start number:

Start 1:

- Found in 16 of 65 (24.6%) of genes in pham
- Manual Annotations of this start: 1 of 62
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Taquito_55 (K4),

Start 2:

- Found in 65 of 65 (100.0%) of genes in pham
- Manual Annotations of this start: 61 of 62
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Arib1_33 (P1), Atcoo_33 (P1), Bartholomew_32 (P1), BigNuz_36 (P4), Bogie_35 (P1), Brusacoram_33 (P1), Bunnies_33 (P1), CactusJack_33 (P1), Camster_33 (P1), Chancellor_55 (K4), Cheetobro_55 (K4), Donovan_33 (P1), Dynamo_33 (P1), Eponine_57 (K4), Fionnbharth_55 (K4), FirstPlacePfu_33 (P1), Fishburne_33 (P1), Glaske_33 (P1), GreaseLightnin_33 (P1), HUHilltop_33 (P1), JF1_55 (K4), Jebeks_34 (P1), Juliette_57 (K4), Jung_32 (P1), Juniormint_33 (P1), Kari_33 (P1), KilKor_33 (P1), Ksquared_33 (P1), Langerak_33 (P1), Majeke_33 (P1), Malithi_33 (P1), Malthus_56 (K4), Mangethe_33 (P1), Megiddo_33 (P1), MissDaisy_53 (K4), Mitti_55 (K4), Nazo_37 (P4), Necropolis_33 (P1), OmniCritical_54 (K4), Patt_52 (K4), Phalm_33 (P1), Phayonce_35 (P5), Phegasus_33 (P1), Phineas_33 (P1), Polkaroo_33 (P1), Purky_40 (P6), Pygmy_35 (P1), Reptar3000_53 (K4), Ruthiejr_56 (K4), SamScheppers_53 (K4), Shipwreck_35 (P1), Slarp_55 (K4), Sonah_33 (P1), StevieRay_33 (P1), StressBall_33 (P1), Techage_33 (P1), Thespis_33 (P1), Venti_33 (P1), Vidya_33 (P1), Willsammy_32 (P1), Wintermute_55 (K4), Y10_54 (K4), Y2_54 (K4), Zilizebeth_33 (P1),

Summary by clusters:

There are 5 clusters represented in this pham: P1, P6, P4, P5, K4,

Info for manual annotations of cluster K4:

- Start number 1 was manually annotated 1 time for cluster K4.
- Start number 2 was manually annotated 18 times for cluster K4.

Info for manual annotations of cluster P1:

- Start number 2 was manually annotated 39 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 2 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 2 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 2 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_33 Start: 27712, Stop: 27948, Start Num: 2

Candidate Starts for Arib1_33:

(Start: 2 @27712 has 61 MA's), (8, 27859), (9, 27871), (11, 27931),

Gene: Atcoo_33 Start: 28193, Stop: 28429, Start Num: 2

Candidate Starts for Atcoo_33:

(Start: 2 @28193 has 61 MA's), (4, 28238), (6, 28298), (8, 28340), (9, 28352), (11, 28412),

Gene: Bartholomew_32 Start: 27706, Stop: 27942, Start Num: 2

Candidate Starts for Bartholomew_32:

(Start: 2 @27706 has 61 MA's), (4, 27751), (6, 27811), (8, 27853), (9, 27865), (11, 27925),

Gene: BigNuz_36 Start: 29834, Stop: 30067, Start Num: 2

Candidate Starts for BigNuz_36:

(Start: 2 @29834 has 61 MA's), (9, 29990),

Gene: Bogie_35 Start: 29489, Stop: 29725, Start Num: 2

Candidate Starts for Bogie_35:

(Start: 2 @29489 has 61 MA's), (8, 29636), (9, 29648), (11, 29708),

Gene: Brusacoram_33 Start: 27699, Stop: 27935, Start Num: 2

Candidate Starts for Brusacoram_33:

(Start: 2 @27699 has 61 MA's), (4, 27744), (6, 27804), (8, 27846), (9, 27858), (11, 27918),

Gene: Bunnies_33 Start: 27720, Stop: 27956, Start Num: 2

Candidate Starts for Bunnies_33:

(Start: 2 @27720 has 61 MA's), (4, 27765), (6, 27825), (8, 27867), (9, 27879), (11, 27939),

Gene: CactusJack_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for CactusJack_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: Camster_33 Start: 27736, Stop: 27972, Start Num: 2

Candidate Starts for Camster_33:

(Start: 2 @27736 has 61 MA's), (4, 27781), (6, 27841), (8, 27883), (9, 27895), (11, 27955),

Gene: Chancellor_55 Start: 37968, Stop: 38207, Start Num: 2

Candidate Starts for Chancellor_55:

(Start: 1 @37965 has 1 MA's), (Start: 2 @37968 has 61 MA's), (3, 37980), (5, 38037), (6, 38082), (8, 38127),

Gene: Cheetobro_55 Start: 37965, Stop: 38204, Start Num: 2

Candidate Starts for Cheetobro_55:

(Start: 1 @37962 has 1 MA's), (Start: 2 @37965 has 61 MA's), (3, 37977), (5, 38034), (6, 38079), (8, 38124),

Gene: Donovan_33 Start: 27728, Stop: 27964, Start Num: 2

Candidate Starts for Donovan_33:

(Start: 2 @27728 has 61 MA's), (4, 27773), (8, 27875), (9, 27887),

Gene: Dynamo_33 Start: 28117, Stop: 28350, Start Num: 2

Candidate Starts for Dynamo_33:

(Start: 2 @28117 has 61 MA's), (7, 28231), (11, 28333),

Gene: Eponine_57 Start: 38805, Stop: 39044, Start Num: 2

Candidate Starts for Eponine_57:

(Start: 1 @38802 has 1 MA's), (Start: 2 @38805 has 61 MA's), (3, 38817), (5, 38874), (6, 38919), (8, 38964),

Gene: Fionnbharth_55 Start: 38203, Stop: 38442, Start Num: 2

Candidate Starts for Fionnbharth_55:

(Start: 1 @38200 has 1 MA's), (Start: 2 @38203 has 61 MA's), (3, 38215), (5, 38272), (6, 38317), (8, 38362),

Gene: FirstPlacePfu_33 Start: 27738, Stop: 27974, Start Num: 2

Candidate Starts for FirstPlacePfu_33:

(Start: 2 @27738 has 61 MA's), (4, 27783), (6, 27843), (8, 27885), (9, 27897), (11, 27957),

Gene: Fishburne_33 Start: 27706, Stop: 27942, Start Num: 2

Candidate Starts for Fishburne_33:

(Start: 2 @27706 has 61 MA's), (4, 27751), (6, 27811), (8, 27853), (9, 27865), (11, 27925),

Gene: Glaske_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for Glaske_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: GreaseLightnin_33 Start: 27955, Stop: 28182, Start Num: 2

Candidate Starts for GreaseLightnin_33:

(Start: 2 @27955 has 61 MA's), (8, 28093),

Gene: HUHilltop_33 Start: 27739, Stop: 27975, Start Num: 2

Candidate Starts for HUHilltop_33:

(Start: 2 @27739 has 61 MA's), (4, 27784), (8, 27886), (9, 27898),

Gene: JF1_55 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for JF1_55:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 61 MA's), (3, 38132), (5, 38189), (6, 38234), (8, 38279),

Gene: Jebeks_34 Start: 27691, Stop: 27927, Start Num: 2

Candidate Starts for Jebeks_34:

(Start: 2 @27691 has 61 MA's), (4, 27736), (7, 27808), (8, 27838), (11, 27910),

Gene: Juliette_57 Start: 38273, Stop: 38512, Start Num: 2

Candidate Starts for Juliette_57:

(Start: 1 @38270 has 1 MA's), (Start: 2 @38273 has 61 MA's), (3, 38285), (5, 38342), (6, 38387), (8, 38432),

Gene: Jung_32 Start: 27670, Stop: 27906, Start Num: 2

Candidate Starts for Jung_32:

(Start: 2 @27670 has 61 MA's), (4, 27715), (6, 27775), (8, 27817), (9, 27829), (11, 27889),

Gene: Juniormint_33 Start: 27742, Stop: 27978, Start Num: 2

Candidate Starts for Juniormint_33:

(Start: 2 @27742 has 61 MA's), (4, 27787), (6, 27847), (8, 27889), (9, 27901), (11, 27961),

Gene: Kari_33 Start: 27703, Stop: 27939, Start Num: 2

Candidate Starts for Kari_33:

(Start: 2 @27703 has 61 MA's), (4, 27748), (6, 27808), (8, 27850), (9, 27862), (11, 27922),

Gene: KilKor_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for KilKor_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: Ksquared_33 Start: 27720, Stop: 27956, Start Num: 2

Candidate Starts for Ksquared_33:

(Start: 2 @27720 has 61 MA's), (4, 27765), (6, 27825), (8, 27867), (9, 27879), (11, 27939),

Gene: Langerak_33 Start: 27722, Stop: 27958, Start Num: 2

Candidate Starts for Langerak_33:

(Start: 2 @27722 has 61 MA's), (8, 27869), (9, 27881), (11, 27941),

Gene: Majeke_33 Start: 27744, Stop: 27980, Start Num: 2

Candidate Starts for Majeke_33:

(Start: 2 @27744 has 61 MA's), (4, 27789), (6, 27849), (8, 27891), (9, 27903), (11, 27963),

Gene: Malithi_33 Start: 27629, Stop: 27865, Start Num: 2

Candidate Starts for Malithi_33:

(Start: 2 @27629 has 61 MA's), (4, 27674), (6, 27734), (8, 27776), (9, 27788), (11, 27848),

Gene: Malthus_56 Start: 37961, Stop: 38200, Start Num: 2

Candidate Starts for Malthus_56:

(Start: 1 @37958 has 1 MA's), (Start: 2 @37961 has 61 MA's), (3, 37973), (5, 38030), (6, 38075), (8, 38120),

Gene: Mangethe_33 Start: 27744, Stop: 27980, Start Num: 2

Candidate Starts for Mangethe_33:

(Start: 2 @27744 has 61 MA's), (4, 27789), (6, 27849), (8, 27891), (9, 27903), (11, 27963),

Gene: Megiddo_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for Megiddo_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: MissDaisy_53 Start: 37493, Stop: 37732, Start Num: 2

Candidate Starts for MissDaisy_53:

(Start: 2 @37493 has 61 MA's), (5, 37562),

Gene: Mitti_55 Start: 38140, Stop: 38379, Start Num: 2

Candidate Starts for Mitti_55:

(Start: 1 @38137 has 1 MA's), (Start: 2 @38140 has 61 MA's), (3, 38152), (5, 38209), (6, 38254), (8, 38299),

Gene: Nazo_37 Start: 29836, Stop: 30069, Start Num: 2

Candidate Starts for Nazo_37:

(Start: 2 @29836 has 61 MA's), (9, 29992),

Gene: Necropolis_33 Start: 27703, Stop: 27939, Start Num: 2

Candidate Starts for Necropolis_33:

(Start: 2 @27703 has 61 MA's), (4, 27748), (6, 27808), (8, 27850), (9, 27862), (11, 27922),

Gene: OmniCritical_54 Start: 37949, Stop: 38188, Start Num: 2

Candidate Starts for OmniCritical_54:

(Start: 1 @37946 has 1 MA's), (Start: 2 @37949 has 61 MA's), (3, 37961), (5, 38018), (6, 38063), (8, 38108),

Gene: Patt_52 Start: 37217, Stop: 37456, Start Num: 2

Candidate Starts for Patt_52:

(Start: 2 @37217 has 61 MA's), (5, 37286),

Gene: Phalm_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for Phalm_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: Phayonce_35 Start: 29732, Stop: 29965, Start Num: 2

Candidate Starts for Phayonce_35:

(Start: 2 @29732 has 61 MA's), (9, 29888), (10, 29918),

Gene: Phegasus_33 Start: 27711, Stop: 27947, Start Num: 2

Candidate Starts for Phegasus_33:

(Start: 2 @27711 has 61 MA's), (4, 27756), (6, 27816), (8, 27858), (9, 27870), (11, 27930),

Gene: Phineas_33 Start: 28077, Stop: 28310, Start Num: 2

Candidate Starts for Phineas_33:

(Start: 2 @28077 has 61 MA's), (7, 28191), (11, 28293),

Gene: Polkaroo_33 Start: 27720, Stop: 27956, Start Num: 2

Candidate Starts for Polkaroo_33:

(Start: 2 @27720 has 61 MA's), (4, 27765), (6, 27825), (8, 27867), (9, 27879), (11, 27939),

Gene: Purky_40 Start: 30459, Stop: 30692, Start Num: 2

Candidate Starts for Purky_40:

(Start: 2 @30459 has 61 MA's),

Gene: Pygmy_35 Start: 29545, Stop: 29781, Start Num: 2

Candidate Starts for Pygmy_35:

(Start: 2 @29545 has 61 MA's), (8, 29692), (9, 29704), (11, 29764),

Gene: Reptar3000_53 Start: 37205, Stop: 37444, Start Num: 2

Candidate Starts for Reptar3000_53:

(Start: 2 @37205 has 61 MA's), (5, 37274),

Gene: Ruthiejr_56 Start: 38011, Stop: 38250, Start Num: 2

Candidate Starts for Ruthiejr_56:

(Start: 1 @38008 has 1 MA's), (Start: 2 @38011 has 61 MA's), (3, 38023), (5, 38080), (6, 38125), (8, 38170),

Gene: SamScheppers_53 Start: 38440, Stop: 38679, Start Num: 2

Candidate Starts for SamScheppers_53:

(Start: 1 @38437 has 1 MA's), (Start: 2 @38440 has 61 MA's), (3, 38452), (5, 38509), (6, 38554), (8, 38599),

Gene: Shipwreck_35 Start: 29520, Stop: 29756, Start Num: 2

Candidate Starts for Shipwreck_35:

(Start: 2 @29520 has 61 MA's), (8, 29667), (9, 29679), (11, 29739),

Gene: Slarp_55 Start: 37968, Stop: 38207, Start Num: 2

Candidate Starts for Slarp_55:

(Start: 1 @37965 has 1 MA's), (Start: 2 @37968 has 61 MA's), (3, 37980), (5, 38037), (6, 38082), (8, 38127),

Gene: Sonah_33 Start: 27692, Stop: 27928, Start Num: 2

Candidate Starts for Sonah_33:

(Start: 2 @27692 has 61 MA's), (4, 27737), (6, 27797), (8, 27839), (9, 27851), (11, 27911),

Gene: StevieRay_33 Start: 27671, Stop: 27898, Start Num: 2

Candidate Starts for StevieRay_33:

(Start: 2 @27671 has 61 MA's), (8, 27809),

Gene: StressBall_33 Start: 27963, Stop: 28199, Start Num: 2

Candidate Starts for StressBall_33:

(Start: 2 @27963 has 61 MA's), (4, 28008), (6, 28068), (8, 28110), (9, 28122), (11, 28182),

Gene: Taquito_55 Start: 38293, Stop: 38535, Start Num: 1

Candidate Starts for Taquito_55:

(Start: 1 @38293 has 1 MA's), (Start: 2 @38296 has 61 MA's), (3, 38308), (5, 38365), (6, 38410), (8, 38455),

Gene: Techage_33 Start: 27729, Stop: 27965, Start Num: 2

Candidate Starts for Techage_33:

(Start: 2 @27729 has 61 MA's), (4, 27774), (6, 27834), (8, 27876), (9, 27888), (11, 27948),

Gene: Thespis_33 Start: 27699, Stop: 27935, Start Num: 2

Candidate Starts for Thespis_33:

(Start: 2 @27699 has 61 MA's), (4, 27744), (6, 27804), (8, 27846), (9, 27858), (11, 27918),

Gene: Venti_33 Start: 27706, Stop: 27942, Start Num: 2

Candidate Starts for Venti_33:

(Start: 2 @27706 has 61 MA's), (4, 27751), (6, 27811), (8, 27853), (9, 27865), (11, 27925),

Gene: Vidya_33 Start: 27739, Stop: 27975, Start Num: 2

Candidate Starts for Vidya_33:

(Start: 2 @27739 has 61 MA's), (4, 27784), (6, 27844), (8, 27886), (9, 27898), (11, 27958),

Gene: Willsammy_32 Start: 27446, Stop: 27682, Start Num: 2

Candidate Starts for Willsammy_32:

(Start: 2 @27446 has 61 MA's), (4, 27491), (6, 27551), (8, 27593), (9, 27605), (11, 27665),

Gene: Wintermute_55 Start: 38198, Stop: 38437, Start Num: 2

Candidate Starts for Wintermute_55:

(Start: 1 @38195 has 1 MA's), (Start: 2 @38198 has 61 MA's), (3, 38210), (5, 38267), (6, 38312), (8, 38357),

Gene: Y10_54 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for Y10_54:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 61 MA's), (3, 38132), (5, 38189), (6, 38234), (8, 38279),

Gene: Y2_54 Start: 38120, Stop: 38359, Start Num: 2

Candidate Starts for Y2_54:

(Start: 1 @38117 has 1 MA's), (Start: 2 @38120 has 61 MA's), (3, 38132), (5, 38189), (6, 38234), (8, 38279),

Gene: Zilizebeth_33 Start: 27738, Stop: 27974, Start Num: 2

Candidate Starts for Zilizebeth_33:

(Start: 2 @27738 has 61 MA's), (4, 27783), (6, 27843), (8, 27885), (9, 27897), (11, 27957),