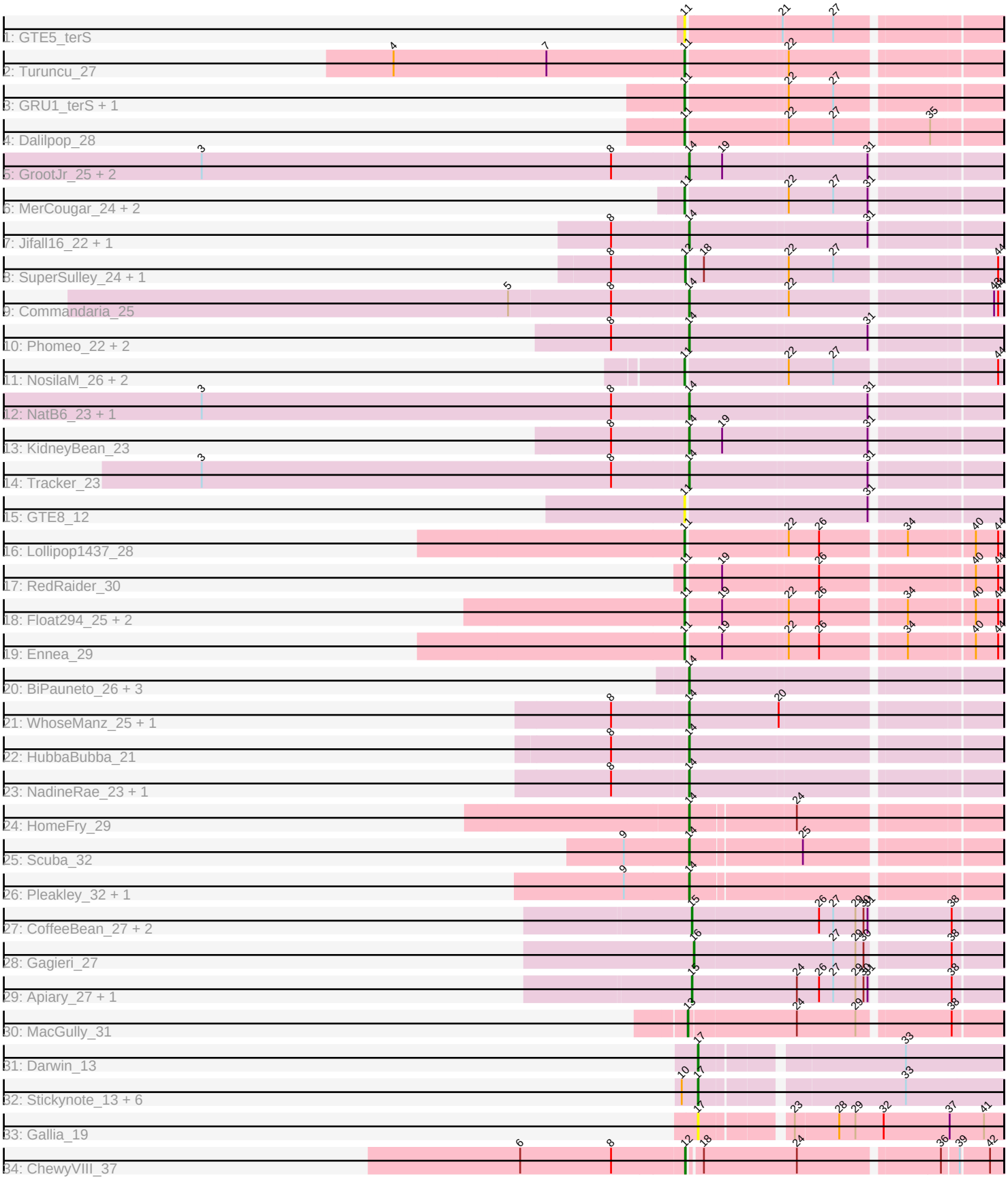
Zoomed Pham 338285



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 338285 Report

This analysis was run 11/14/26 on database version 672.

Pham number 338285 has 63 members, 4 are drafts.

Phages represented in each track:
- Track 1 : GTE5_terS
- Track 2 : Turuncu_27
- Track 3 : GRU1_terS, Flapper_27
- Track 4 : Dalilpop_28
- Track 5 : GrootJr_25, Arti_23, NovumRegina_23
- Track 6 : MerCougar_24, StarStruck_24, Outis_24
- Track 7 : Jifall16_22, Foxboro_24
- Track 8 : SuperSulley_24, Buggaboo_24
- Track 9 : Commandaria_25
- Track 10 : Phomeo_22, Emianna_23, Kurt_23
- Track 11 : NosilaM_26, Bonum_26, Kabluna_26
- Track 12 : NatB6_23, Wheezy_23
- Track 13 : KidneyBean_23
- Track 14 : Tracker_23
- Track 15 : GTE8_12
- Track 16 : Lollipop1437_28
- Track 17 : RedRaider_30
- Track 18 : Float294_25, Patio_26, Skysand_25
- Track 19 : Ennea_29
- Track 20 : BiPauneto_26, Sukkupi_25, Pemberton_26, Yndexa_25
- Track 21 : WhoseManz_25, Marietta_25
- Track 22 : HubbaBubba_21
- Track 23 : NadineRae_23, IDyn_24
- Track 24 : HomeFry_29
- Track 25 : Scuba_32
- Track 26 : Pleakley_32, Fury_32
- Track 27 : CoffeeBean_27, Braxoaddie_27, Maselop_27
- Track 28 : Gagieri_27
- Track 29 : Apiary_27, Polyyuki_27
- Track 30 : MacGully_31
- Track 31 : Darwin_13
- Track 32 : Stickynote_13, Kimchi1738_11, Cruella_11, C3PO_11, PotatoChip_11, Zion_11, PeteyPab_11
- Track 33 : Gallia_19
- Track 34 : ChewyVIII_37

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

The start number called the most often in the published annotations is 14, it was called in 26 of the 59 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arti_23, BiPauneto_26, Commandaria_25, Emianna_23, Foxboro_24, Fury_32, GrootJr_25, HomeFry_29, HubbaBubba_21, IDyn_24, Jifall16_22, KidneyBean_23, Kurt_23, Marietta_25, NadineRae_23, NatB6_23, NovumRegina_23, Pemberton_26, Phomeo_22, Pleakley_32, Scuba_32, Sukkupi_25, Tracker_23, Wheezy_23, WhoseManz_25, Yndexa_25,

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

Genes that do not have the "Most Annotated" start:
• Apiary_27, Bonum_26, Braxoaddie_27, Buggaboo_24, C3PO_11, ChewyVIII_37, CoffeeBean_27, Cruella_11, Dalilpop_28, Darwin_13, Ennea_29, Flapper_27, Float294_25, GRU1_terS, GTE5_terS, GTE8_12, Gagieri_27, Gallia_19, Kabluna_26, Kimchi1738_11, Lollipop1437_28, MacGully_31, Maselop_27, MerCougar_24, NosilaM_26, Outis_24, Patio_26, PeteyPab_11, Polyyuki_27, PotatoChip_11, RedRaider_30, Skysand_25, StarStruck_24, Stickynote_13, SuperSulley_24, Turuncu_27, Zion_11,

Summary by start number:

Start 11:
• Found in 18 of 63 (28.6%) of genes in pham
• Manual Annotations of this start: 15 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bonum_26 (CR2), Dalilpop_28 (CR1), Ennea_29 (CR3), Flapper_27 (CR1), Float294_25 (CR3), GRU1_terS (CR1), GTE5_terS (CR1), GTE8_12 (CR2), Kabluna_26 (CR2), Lollipop1437_28 (CR3), MerCougar_24 (CR2), NosilaM_26 (CR2), Outis_24 (CR2), Patio_26 (CR3), RedRaider_30 (CR3), Skysand_25 (CR3), StarStruck_24 (CR2), Turuncu_27 (CR1),

Start 12:
• Found in 3 of 63 (4.8%) of genes in pham
• Manual Annotations of this start: 3 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buggaboo_24 (CR2), ChewyVIII_37 (singleton), SuperSulley_24 (CR2),

Start 13:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacGully_31 (CR7),

Start 14:
• Found in 26 of 63 (41.3%) of genes in pham
• Manual Annotations of this start: 26 of 59

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_23 (CR2), BiPauneto_26 (CR4), Commandaria_25 (CR2), Emianna_23 (CR2), Foxboro_24 (CR2), Fury_32 (CR5), GrootJr_25 (CR2), HomeFry_29 (CR5), HubbaBubba_21 (CR4), IDyn_24 (CR4), Jifall16_22 (CR2), KidneyBean_23 (CR2), Kurt_23 (CR2), Marietta_25 (CR4), NadineRae_23 (CR4), NatB6_23 (CR2), NovumRegina_23 (CR2), Pemberton_26 (CR4), Phomeo_22 (CR2), Pleakley_32 (CR5), Scuba_32 (CR5), Sukkupi_25 (CR4), Tracker_23 (CR2), Wheezy_23 (CR2), WhoseManz_25 (CR4), Yndexa_25 (CR4),

Start 15:
• Found in 5 of 63 (7.9%) of genes in pham
• Manual Annotations of this start: 5 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apiary_27 (CR6), Braxoaddie_27 (CR6), CoffeeBean_27 (CR6), Maselop_27 (CR6), Polyyuki_27 (CR6),

Start 16:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gagieri_27 (CR6),

Start 17:
• Found in 9 of 63 (14.3%) of genes in pham
• Manual Annotations of this start: 8 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: C3PO_11 (EN), Cruella_11 (EN), Darwin_13 (EN), Gallia_19 (singleton), Kimchi1738_11 (EN), PeteyPab_11 (EN), PotatoChip_11 (EN), Stickynote_13 (EN), Zion_11 (EN),

Summary by clusters:

There are 9 clusters represented in this pham: CR2, CR3, singleton, EN, CR6, CR7, CR4, CR5, CR1,

Info for manual annotations of cluster CR1:
•Start number 11 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 11 was manually annotated 6 times for cluster CR2.
•Start number 12 was manually annotated 2 times for cluster CR2.
•Start number 14 was manually annotated 13 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 11 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 14 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 14 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CR6:

•Start number 15 was manually annotated 5 times for cluster CR6.
•Start number 16 was manually annotated 1 time for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 13 was manually annotated 1 time for cluster CR7.

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

Gene Information:

Gene: Apiary_27 Start: 13594, Stop: 14025, Start Num: 15
Candidate Starts for Apiary_27:
(Start: 15 @13594 has 5 MA's), (24, 13744), (26, 13777), (27, 13798), (29, 13831), (30, 13843), (31, 13849), (38, 13954),

Gene: Arti_23 Start: 11663, Stop: 12094, Start Num: 14
Candidate Starts for Arti_23:
(1, 10454), (2, 10544), (3, 10946), (8, 11552), (Start: 14 @11663 has 26 MA's), (19, 11711), (31, 11921),

Gene: BiPauneto_26 Start: 11608, Stop: 12039, Start Num: 14
Candidate Starts for BiPauneto_26:
(Start: 14 @11608 has 26 MA's),

Gene: Bonum_26 Start: 12070, Stop: 12501, Start Num: 11
Candidate Starts for Bonum_26:
(Start: 11 @12070 has 15 MA's), (22, 12211), (27, 12277), (44, 12493),

Gene: Braxoaddie_27 Start: 13582, Stop: 14013, Start Num: 15
Candidate Starts for Braxoaddie_27:
(Start: 15 @13582 has 5 MA's), (26, 13765), (27, 13786), (29, 13819), (30, 13831), (31, 13837), (38, 13942),

Gene: Buggaboo_24 Start: 12528, Stop: 12959, Start Num: 12
Candidate Starts for Buggaboo_24:
(8, 12423), (Start: 12 @12528 has 3 MA's), (18, 12549), (22, 12669), (27, 12735), (44, 12951),

Gene: C3PO_11 Start: 6270, Stop: 6686, Start Num: 17
Candidate Starts for C3PO_11:
(10, 6246), (Start: 17 @6270 has 8 MA's), (33, 6546),

Gene: ChewyVIII_37 Start: 19408, Stop: 19836, Start Num: 12
Candidate Starts for ChewyVIII_37:
(6, 19168), (8, 19303), (Start: 12 @19408 has 3 MA's), (18, 19423), (24, 19561), (36, 19756), (39, 19777), (42, 19816),

Gene: CoffeeBean_27 Start: 13537, Stop: 13968, Start Num: 15
Candidate Starts for CoffeeBean_27:
(Start: 15 @13537 has 5 MA's), (26, 13720), (27, 13741), (29, 13774), (30, 13786), (31, 13792), (38, 13897),

Gene: Commandaria_25 Start: 12981, Stop: 13412, Start Num: 14
Candidate Starts for Commandaria_25:
(5, 12720), (8, 12870), (Start: 14 @12981 has 26 MA's), (22, 13122), (43, 13398), (44, 13404),

Gene: Cruella_11 Start: 6270, Stop: 6686, Start Num: 17
Candidate Starts for Cruella_11:
(10, 6246), (Start: 17 @6270 has 8 MA's), (33, 6546),

Gene: Dalilpop_28 Start: 14130, Stop: 14561, Start Num: 11
Candidate Starts for Dalilpop_28:
(Start: 11 @14130 has 15 MA's), (22, 14271), (27, 14337), (35, 14463),

Gene: Darwin_13 Start: 6857, Stop: 7273, Start Num: 17
Candidate Starts for Darwin_13:
(Start: 17 @6857 has 8 MA's), (33, 7133),

Gene: Emianna_23 Start: 12702, Stop: 13133, Start Num: 14
Candidate Starts for Emianna_23:
(8, 12591), (Start: 14 @12702 has 26 MA's), (31, 12960),

Gene: Ennea_29 Start: 13312, Stop: 13743, Start Num: 11
Candidate Starts for Ennea_29:
(Start: 11 @13312 has 15 MA's), (19, 13360), (22, 13453), (26, 13498), (34, 13612), (40, 13702), (44, 13735),

Gene: Flapper_27 Start: 13206, Stop: 13637, Start Num: 11
Candidate Starts for Flapper_27:
(Start: 11 @13206 has 15 MA's), (22, 13347), (27, 13413),

Gene: Float294_25 Start: 12754, Stop: 13185, Start Num: 11
Candidate Starts for Float294_25:
(Start: 11 @12754 has 15 MA's), (19, 12802), (22, 12895), (26, 12940), (34, 13054), (40, 13144), (44, 13177),

Gene: Foxboro_24 Start: 13208, Stop: 13639, Start Num: 14
Candidate Starts for Foxboro_24:
(8, 13097), (Start: 14 @13208 has 26 MA's), (31, 13466),

Gene: Fury_32 Start: 12481, Stop: 12906, Start Num: 14
Candidate Starts for Fury_32:
(9, 12391), (Start: 14 @12481 has 26 MA's),

Gene: GRU1_terS Start: 5091, Stop: 5522, Start Num: 11
Candidate Starts for GRU1_terS:
(Start: 11 @5091 has 15 MA's), (22, 5232), (27, 5298),

Gene: GTE5_terS Start: 6100, Stop: 6531, Start Num: 11
Candidate Starts for GTE5_terS:
(Start: 11 @6100 has 15 MA's), (21, 6235), (27, 6307),

Gene: GTE8_12 Start: 5991, Stop: 6422, Start Num: 11
Candidate Starts for GTE8_12:

(Start: 11 @5991 has 15 MA's), (31, 6249),

Gene: Gagieri_27 Start: 13341, Stop: 13772, Start Num: 16
Candidate Starts for Gagieri_27:
(Start: 16 @13341 has 1 MA's), (27, 13545), (29, 13578), (30, 13590), (38, 13701),

Gene: Gallia_19 Start: 10295, Stop: 10714, Start Num: 17
Candidate Starts for Gallia_19:
(Start: 17 @10295 has 8 MA's), (23, 10409), (28, 10472), (29, 10496), (32, 10538), (37, 10634), (41, 10685),

Gene: GrootJr_25 Start: 12058, Stop: 12489, Start Num: 14
Candidate Starts for GrootJr_25:
(1, 10849), (2, 10939), (3, 11341), (8, 11947), (Start: 14 @12058 has 26 MA's), (19, 12106), (31, 12316),

Gene: HomeFry_29 Start: 11150, Stop: 11575, Start Num: 14
Candidate Starts for HomeFry_29:
(Start: 14 @11150 has 26 MA's), (24, 11297),

Gene: HubbaBubba_21 Start: 8626, Stop: 9057, Start Num: 14
Candidate Starts for HubbaBubba_21:
(8, 8518), (Start: 14 @8626 has 26 MA's),

Gene: IDyn_24 Start: 10022, Stop: 10453, Start Num: 14
Candidate Starts for IDyn_24:
(8, 9914), (Start: 14 @10022 has 26 MA's),

Gene: Jifall16_22 Start: 12332, Stop: 12763, Start Num: 14
Candidate Starts for Jifall16_22:
(8, 12221), (Start: 14 @12332 has 26 MA's), (31, 12590),

Gene: Kabluna_26 Start: 11461, Stop: 11892, Start Num: 11
Candidate Starts for Kabluna_26:
(Start: 11 @11461 has 15 MA's), (22, 11602), (27, 11668), (44, 11884),

Gene: KidneyBean_23 Start: 12465, Stop: 12896, Start Num: 14
Candidate Starts for KidneyBean_23:
(8, 12354), (Start: 14 @12465 has 26 MA's), (19, 12513), (31, 12723),

Gene: Kimchi1738_11 Start: 6271, Stop: 6687, Start Num: 17
Candidate Starts for Kimchi1738_11:
(10, 6247), (Start: 17 @6271 has 8 MA's), (33, 6547),

Gene: Kurt_23 Start: 12702, Stop: 13133, Start Num: 14
Candidate Starts for Kurt_23:
(8, 12591), (Start: 14 @12702 has 26 MA's), (31, 12960),

Gene: Lollipop1437_28 Start: 13300, Stop: 13731, Start Num: 11
Candidate Starts for Lollipop1437_28:
(Start: 11 @13300 has 15 MA's), (22, 13441), (26, 13486), (34, 13600), (40, 13690), (44, 13723),

Gene: MacGully_31 Start: 13663, Stop: 14097, Start Num: 13

Candidate Starts for MacGully_31:
(Start: 13 @13663 has 1 MA's), (24, 13816), (29, 13903), (38, 14026),

Gene: Marietta_25 Start: 9948, Stop: 10379, Start Num: 14
Candidate Starts for Marietta_25:
(8, 9840), (Start: 14 @9948 has 26 MA's), (20, 10077),

Gene: Maselop_27 Start: 13613, Stop: 14044, Start Num: 15
Candidate Starts for Maselop_27:
(Start: 15 @13613 has 5 MA's), (26, 13796), (27, 13817), (29, 13850), (30, 13862), (31, 13868), (38, 13973),

Gene: MerCougar_24 Start: 12655, Stop: 13086, Start Num: 11
Candidate Starts for MerCougar_24:
(Start: 11 @12655 has 15 MA's), (22, 12796), (27, 12862), (31, 12913),

Gene: NadineRae_23 Start: 9197, Stop: 9628, Start Num: 14
Candidate Starts for NadineRae_23:
(8, 9089), (Start: 14 @9197 has 26 MA's),

Gene: NatB6_23 Start: 11726, Stop: 12157, Start Num: 14
Candidate Starts for NatB6_23:
(1, 10517), (2, 10607), (3, 11009), (8, 11615), (Start: 14 @11726 has 26 MA's), (31, 11984),

Gene: NosilaM_26 Start: 12340, Stop: 12771, Start Num: 11
Candidate Starts for NosilaM_26:
(Start: 11 @12340 has 15 MA's), (22, 12481), (27, 12547), (44, 12763),

Gene: NovumRegina_23 Start: 12057, Stop: 12488, Start Num: 14
Candidate Starts for NovumRegina_23:
(1, 10848), (2, 10938), (3, 11340), (8, 11946), (Start: 14 @12057 has 26 MA's), (19, 12105), (31, 12315),

Gene: Outis_24 Start: 12349, Stop: 12780, Start Num: 11
Candidate Starts for Outis_24:
(Start: 11 @12349 has 15 MA's), (22, 12490), (27, 12556), (31, 12607),

Gene: Patio_26 Start: 12536, Stop: 12967, Start Num: 11
Candidate Starts for Patio_26:
(Start: 11 @12536 has 15 MA's), (19, 12584), (22, 12677), (26, 12722), (34, 12836), (40, 12926), (44, 12959),

Gene: Pemberton_26 Start: 9916, Stop: 10347, Start Num: 14
Candidate Starts for Pemberton_26:
(Start: 14 @9916 has 26 MA's),

Gene: PeteyPab_11 Start: 6247, Stop: 6663, Start Num: 17
Candidate Starts for PeteyPab_11:
(10, 6223), (Start: 17 @6247 has 8 MA's), (33, 6523),

Gene: Phomeo_22 Start: 12352, Stop: 12783, Start Num: 14
Candidate Starts for Phomeo_22:
(8, 12241), (Start: 14 @12352 has 26 MA's), (31, 12610),

Gene: Pleakley_32 Start: 12482, Stop: 12907, Start Num: 14
Candidate Starts for Pleakley_32:
(9, 12392), (Start: 14 @12482 has 26 MA's),

Gene: Polyyuki_27 Start: 13605, Stop: 14036, Start Num: 15
Candidate Starts for Polyyuki_27:
(Start: 15 @13605 has 5 MA's), (24, 13755), (26, 13788), (27, 13809), (29, 13842), (30, 13854), (31, 13860), (38, 13965),

Gene: PotatoChip_11 Start: 6249, Stop: 6665, Start Num: 17
Candidate Starts for PotatoChip_11:
(10, 6225), (Start: 17 @6249 has 8 MA's), (33, 6525),

Gene: RedRaider_30 Start: 14607, Stop: 15038, Start Num: 11
Candidate Starts for RedRaider_30:
(Start: 11 @14607 has 15 MA's), (19, 14655), (26, 14793), (40, 14997), (44, 15030),

Gene: Scuba_32 Start: 12569, Stop: 12994, Start Num: 14
Candidate Starts for Scuba_32:
(9, 12479), (Start: 14 @12569 has 26 MA's), (25, 12725),

Gene: Skysand_25 Start: 12756, Stop: 13187, Start Num: 11
Candidate Starts for Skysand_25:
(Start: 11 @12756 has 15 MA's), (19, 12804), (22, 12897), (26, 12942), (34, 13056), (40, 13146), (44, 13179),

Gene: StarStruck_24 Start: 12349, Stop: 12780, Start Num: 11
Candidate Starts for StarStruck_24:
(Start: 11 @12349 has 15 MA's), (22, 12490), (27, 12556), (31, 12607),

Gene: Stickynote_13 Start: 7060, Stop: 7476, Start Num: 17
Candidate Starts for Stickynote_13:
(10, 7036), (Start: 17 @7060 has 8 MA's), (33, 7336),

Gene: Sukkupi_25 Start: 11499, Stop: 11930, Start Num: 14
Candidate Starts for Sukkupi_25:
(Start: 14 @11499 has 26 MA's),

Gene: SuperSulley_24 Start: 12528, Stop: 12959, Start Num: 12
Candidate Starts for SuperSulley_24:
(8, 12423), (Start: 12 @12528 has 3 MA's), (18, 12549), (22, 12669), (27, 12735), (44, 12951),

Gene: Tracker_23 Start: 11480, Stop: 11911, Start Num: 14
Candidate Starts for Tracker_23:
(3, 10763), (8, 11369), (Start: 14 @11480 has 26 MA's), (31, 11738),

Gene: Turuncu_27 Start: 12900, Stop: 13331, Start Num: 11
Candidate Starts for Turuncu_27:
(4, 12474), (7, 12699), (Start: 11 @12900 has 15 MA's), (22, 13041),

Gene: Wheezy_23 Start: 11683, Stop: 12114, Start Num: 14
Candidate Starts for Wheezy_23:

(1, 10474), (2, 10564), (3, 10966), (8, 11572), (Start: 14 @11683 has 26 MA's), (31, 11941),

Gene: WhoseManz_25 Start: 9559, Stop: 9990, Start Num: 14
Candidate Starts for WhoseManz_25:
(8, 9451), (Start: 14 @9559 has 26 MA's), (20, 9688),

Gene: Yndexa_25 Start: 11499, Stop: 11930, Start Num: 14
Candidate Starts for Yndexa_25:
(Start: 14 @11499 has 26 MA's),

Gene: Zion_11 Start: 6247, Stop: 6663, Start Num: 17
Candidate Starts for Zion_11:
(10, 6223), (Start: 17 @6247 has 8 MA's), (33, 6523),