

Pham 202903



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 202903 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202903 has 73 members, 6 are drafts.

Phages represented in each track:

- Track 1 : PinkYoshi_14, Coleslaw_14, Annihilator_14, BQuat_14
- Track 2 : Darionha_14, Kareem_14, Crespo_14, Mowgli_14, Plagueis_14, ShaboiShabazz_14, Periodt_14, CassieYates_14, Angel_14, Chance64_15, TomBrady_14, BruceB_14, ZoMa_14, Avrafan_14, Gomashi_15, Jonghyun_14, OctaviousRex_15, Gideon_14, DMoney_14, ECartman_14, Sizemore_14, Kasen3_14, Barkley26_14, Schiebel_14, Camri_14, Wendigo_14, Cedasite_14, Grizzly_14, Marmie_14, LouisV14_14, Aroostook_14, Renaissance_14, JorRay_14, Olga_14, Jolene_14, Frosty24_14, Phreak_14, Phish_14, Zombie_14, Peeb_14, Hope_15, Jane_14, Liefie_14, Maliketh_14, AzulaCat_14, Hotshotbaby7_14, BPs_14, Sweets_14, Cherrybomb426_14
- Track 3 : CLED96_14, Remy19_14, GoldenAsh_14, DNAll_0014
- Track 4 : Paito_14
- Track 5 : TinaBug_14, Halo_14
- Track 6 : Sneeze_14, Rabbs_14
- Track 7 : Terror_14, Taheera_14
- Track 8 : Avocado_14, Cambiare_15
- Track 9 : Pace1224_14
- Track 10 : FlagStaff_14
- Track 11 : MOOREtheMARYer_14
- Track 12 : Pinnie_15
- Track 13 : Mercurio_15
- Track 14 : Stargaze_14
- Track 15 : Antsirabe_14

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

The start number called the most often in the published annotations is 4, it was called in 62 of the 67 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel_14, Annihilator_14, Antsirabe_14, Aroostook_14, Avocado_14, Avrafan_14, AzulaCat_14, BPs_14, BQuat_14, Barkley26_14, BruceB_14, Cambiare_15, Camri_14, CassieYates_14, Cedasite_14, Chance64_15, Cherrybomb426_14, Coleslaw_14, Crespo_14, DMoney_14, Darionha_14, ECartman_14, Frosty24_14,

Gideon_14, Gomashi_15, Grizzly_14, Halo_14, Hope_15, Hotshotbaby7_14, Jane_14, Jolene_14, Jonghyun_14, JorRay_14, Kareem_14, Kasen3_14, Liefie_14, LouisV14_14, MOOREtheMARYer_14, Maliketh_14, Marmie_14, Mercurio_15, Mowgli_14, OctaviousRex_15, Olga_14, Pace1224_14, Paito_14, Peeb_14, Periodt_14, Phish_14, Phreak_14, PinkYoshi_14, Pinnie_15, Plagueis_14, Rabbs_14, Renaissance_14, Schiebel_14, ShaboiShabazz_14, Sizemore_14, Sneeze_14, Sweets_14, Taheera_14, Terror_14, TinaBug_14, TomBrady_14, Wendigo_14, ZoMa_14, Zombie_14,

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

- CLED96_14, DNAllI_0014, FlagStaff_14, GoldenAsh_14, Remy19_14, Stargaze_14,

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

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Summary by start number:

Start 1:

- Found in 3 of 73 (4.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Stargaze_14 (G5),

Start 2:

- Found in 63 of 73 (86.3%) of genes in pham
- Manual Annotations of this start: 5 of 67
- Called 7.9% of time when present
- Phage (with cluster) where this start called: CLED96_14 (G1), DNAllI_0014 (G1), FlagStaff_14 (G2), GoldenAsh_14 (G1), Remy19_14 (G1),

Start 4:

- Found in 73 of 73 (100.0%) of genes in pham
- Manual Annotations of this start: 62 of 67
- Called 91.8% of time when present
- Phage (with cluster) where this start called: Angel_14 (G1), Annihilator_14 (G1), Antsirabe_14 (G5), Aroostook_14 (G1), Avocado_14 (G2), Avrafan_14 (G1), AzulaCat_14 (G1), BPs_14 (G1), BQuat_14 (G1), Barkley26_14 (G1), BruceB_14 (G1), Cambiare_15 (G2), Camri_14 (G1), CassieYates_14 (G1), Cedasite_14 (G1), Chance64_15 (G1), Cherrybomb426_14 (G1), Coleslaw_14 (G1), Crespo_14 (G1), DMoney_14 (G1), Darionha_14 (G1), ECartman_14 (G1), Frosty24_14 (G1), Gideon_14 (G1), Gomashi_15 (G1), Grizzly_14 (G1), Halo_14 (G1), Hope_15 (G1), Hotshotbaby7_14 (G1), Jane_14 (G1), Jolene_14 (G1), Jonghyun_14 (G1), JorRay_14 (G1), Kareem_14 (G1), Kasen3_14 (G1), Liefie_14 (G1), LouisV14_14 (G1), MOOREtheMARYer_14 (G3), Maliketh_14 (G1), Marmie_14 (G1), Mercurio_15 (G4), Mowgli_14 (G1), OctaviousRex_15 (G1), Olga_14 (G1), Pace1224_14 (G2), Paito_14 (G1), Peeb_14 (G1), Periodt_14 (G1), Phish_14 (G1), Phreak_14 (G1), PinkYoshi_14 (G1), Pinnie_15 (G3), Plagueis_14 (G1), Rabbs_14 (G1), Renaissance_14 (G1), Schiebel_14 (G1), ShaboiShabazz_14 (G1), Sizemore_14 (G1), Sneeze_14 (G1), Sweets_14 (G1), Taheera_14 (G1), Terror_14 (G1), TinaBug_14 (G1), TomBrady_14 (G1), Wendigo_14 (G1), ZoMa_14 (G1), Zombie_14 (G1),

Summary by clusters:

There are 5 clusters represented in this pham: G5, G4, G3, G2, G1,

Info for manual annotations of cluster G1:

- Start number 2 was manually annotated 4 times for cluster G1.
- Start number 4 was manually annotated 56 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 2 was manually annotated 1 time for cluster G2.
- Start number 4 was manually annotated 2 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 4 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 4 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:

- Start number 4 was manually annotated 1 time for cluster G5.

Gene Information:

Gene: Angel_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Angel_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Annihilator_14 Start: 10560, Stop: 11069, Start Num: 4

Candidate Starts for Annihilator_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10560 has 62 MA's), (8, 10746), (14, 10938), (17, 11010),

Gene: Antsirabe_14 Start: 10908, Stop: 11438, Start Num: 4

Candidate Starts for Antsirabe_14:

(Start: 4 @10908 has 62 MA's), (6, 11058), (10, 11214), (11, 11232), (12, 11259), (15, 11325), (16, 11352),

Gene: Aroostook_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Aroostook_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Avocado_14 Start: 10731, Stop: 11291, Start Num: 4

Candidate Starts for Avocado_14:

(1, 10641), (Start: 4 @10731 has 62 MA's), (7, 10929), (10, 11067), (16, 11205), (17, 11232), (18, 11277),

Gene: Avrafan_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Avrafan_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: AzulaCat_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for AzulaCat_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: BPs_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for BPs_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: BQuat_14 Start: 10560, Stop: 11069, Start Num: 4

Candidate Starts for BQuat_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10560 has 62 MA's), (8, 10746), (14, 10938), (17, 11010),

Gene: Barkley26_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Barkley26_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: BruceB_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for BruceB_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: CLED96_14 Start: 10494, Stop: 11078, Start Num: 2

Candidate Starts for CLED96_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Cambiare_15 Start: 11193, Stop: 11753, Start Num: 4

Candidate Starts for Cambiare_15:

(1, 11103), (Start: 4 @11193 has 62 MA's), (7, 11391), (10, 11529), (16, 11667), (17, 11694), (18, 11739),

Gene: Camri_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Camri_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: CassieYates_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for CassieYates_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Cedasite_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Cedasite_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Chance64_15 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Chance64_15:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Cherrybomb426_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Cherrybomb426_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Coleslaw_14 Start: 10560, Stop: 11069, Start Num: 4

Candidate Starts for Coleslaw_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10560 has 62 MA's), (8, 10746), (14, 10938), (17, 11010),

Gene: Crespo_14 Start: 10570, Stop: 11079, Start Num: 4

Candidate Starts for Crespo_14:

(Start: 2 @10495 has 5 MA's), (3, 10525), (Start: 4 @10570 has 62 MA's), (8, 10756), (14, 10948), (17, 11020),

Gene: DMoney_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for DMoney_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: DNAIII_0014 Start: 10503, Stop: 11087, Start Num: 2

Candidate Starts for DNAIII_0014:

(Start: 2 @10503 has 5 MA's), (3, 10533), (Start: 4 @10578 has 62 MA's), (8, 10764), (14, 10956), (17, 11028),

Gene: Darionha_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Darionha_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: ECartman_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for ECartman_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: FlagStaff_14 Start: 10592, Stop: 11215, Start Num: 2

Candidate Starts for FlagStaff_14:

(Start: 2 @10592 has 5 MA's), (Start: 4 @10664 has 62 MA's), (7, 10853), (9, 10967), (16, 11129), (17, 11156),

Gene: Frosty24_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Frosty24_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Gideon_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Gideon_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: GoldenAsh_14 Start: 10494, Stop: 11078, Start Num: 2

Candidate Starts for GoldenAsh_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Gomashi_15 Start: 10570, Stop: 11079, Start Num: 4

Candidate Starts for Gomashi_15:

(Start: 2 @10495 has 5 MA's), (3, 10525), (Start: 4 @10570 has 62 MA's), (8, 10756), (14, 10948), (17, 11020),

Gene: Grizzly_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Grizzly_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Halo_14 Start: 10564, Stop: 11073, Start Num: 4

Candidate Starts for Halo_14:

(Start: 2 @10489 has 5 MA's), (Start: 4 @10564 has 62 MA's), (8, 10750), (14, 10942), (17, 11014),

Gene: Hope_15 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Hope_15:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Hotshotbaby7_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Hotshotbaby7_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Jane_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Jane_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Jolene_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Jolene_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Jonghyun_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Jonghyun_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: JorRay_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for JorRay_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Kareem_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Kareem_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Kasen3_14 Start: 10570, Stop: 11079, Start Num: 4

Candidate Starts for Kasen3_14:

(Start: 2 @10495 has 5 MA's), (3, 10525), (Start: 4 @10570 has 62 MA's), (8, 10756), (14, 10948), (17, 11020),

Gene: Liefie_14 Start: 10568, Stop: 11077, Start Num: 4

Candidate Starts for Liefie_14:

(Start: 2 @10493 has 5 MA's), (3, 10523), (Start: 4 @10568 has 62 MA's), (8, 10754), (14, 10946), (17, 11018),

Gene: LouisV14_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for LouisV14_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: MOOREtheMARYer_14 Start: 10788, Stop: 11321, Start Num: 4

Candidate Starts for MOOREtheMARYer_14:

(Start: 2 @10719 has 5 MA's), (Start: 4 @10788 has 62 MA's), (5, 10923), (6, 10944), (10, 11097), (12, 11142), (16, 11235),

Gene: Maliketh_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Maliketh_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Marmie_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Marmie_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Mercurio_15 Start: 10548, Stop: 11060, Start Num: 4

Candidate Starts for Mercurio_15:

(Start: 4 @10548 has 62 MA's), (17, 11001),

Gene: Mowgli_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Mowgli_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: OctaviousRex_15 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for OctaviousRex_15:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Olga_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Olga_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Pace1224_14 Start: 10664, Stop: 11215, Start Num: 4
Candidate Starts for Pace1224_14:
(Start: 2 @10592 has 5 MA's), (Start: 4 @10664 has 62 MA's), (7, 10853), (9, 10967), (16, 11129), (17, 11156),

Gene: Paito_14 Start: 10684, Stop: 11196, Start Num: 4
Candidate Starts for Paito_14:
(Start: 4 @10684 has 62 MA's), (8, 10873), (9, 10948), (10, 10972), (13, 11044), (17, 11137),

Gene: Peeb_14 Start: 10569, Stop: 11078, Start Num: 4
Candidate Starts for Peeb_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Periodt_14 Start: 10569, Stop: 11078, Start Num: 4
Candidate Starts for Periodt_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Phish_14 Start: 10569, Stop: 11078, Start Num: 4
Candidate Starts for Phish_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Phreak_14 Start: 10569, Stop: 11078, Start Num: 4
Candidate Starts for Phreak_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: PinkYoshi_14 Start: 10560, Stop: 11069, Start Num: 4
Candidate Starts for PinkYoshi_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10560 has 62 MA's), (8, 10746), (14, 10938), (17, 11010),

Gene: Pinnie_15 Start: 11257, Stop: 11769, Start Num: 4
Candidate Starts for Pinnie_15:
(Start: 2 @11185 has 5 MA's), (Start: 4 @11257 has 62 MA's), (9, 11521), (10, 11545), (16, 11683),

Gene: Plagueis_14 Start: 10569, Stop: 11078, Start Num: 4
Candidate Starts for Plagueis_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Rabbs_14 Start: 10556, Stop: 11068, Start Num: 4
Candidate Starts for Rabbs_14:
(Start: 4 @10556 has 62 MA's), (9, 10820), (17, 11009),

Gene: Remy19_14 Start: 10494, Stop: 11078, Start Num: 2
Candidate Starts for Remy19_14:
(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Renaissance_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Renaissance_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Schiebel_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Schiebel_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: ShaboiShabazz_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for ShaboiShabazz_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Sizemore_14 Start: 10570, Stop: 11079, Start Num: 4

Candidate Starts for Sizemore_14:

(Start: 2 @10495 has 5 MA's), (3, 10525), (Start: 4 @10570 has 62 MA's), (8, 10756), (14, 10948), (17, 11020),

Gene: Sneeze_14 Start: 10555, Stop: 11067, Start Num: 4

Candidate Starts for Sneeze_14:

(Start: 4 @10555 has 62 MA's), (9, 10819), (17, 11008),

Gene: Stargaze_14 Start: 10778, Stop: 11371, Start Num: 1

Candidate Starts for Stargaze_14:

(1, 10778), (Start: 4 @10865 has 62 MA's), (9, 11123), (10, 11147), (11, 11165), (16, 11285),

Gene: Sweets_14 Start: 10564, Stop: 11073, Start Num: 4

Candidate Starts for Sweets_14:

(Start: 2 @10489 has 5 MA's), (3, 10519), (Start: 4 @10564 has 62 MA's), (8, 10750), (14, 10942), (17, 11014),

Gene: Taheera_14 Start: 10568, Stop: 11080, Start Num: 4

Candidate Starts for Taheera_14:

(Start: 4 @10568 has 62 MA's), (9, 10832), (17, 11021),

Gene: Terror_14 Start: 10568, Stop: 11080, Start Num: 4

Candidate Starts for Terror_14:

(Start: 4 @10568 has 62 MA's), (9, 10832), (17, 11021),

Gene: TinaBug_14 Start: 10564, Stop: 11073, Start Num: 4

Candidate Starts for TinaBug_14:

(Start: 2 @10489 has 5 MA's), (Start: 4 @10564 has 62 MA's), (8, 10750), (14, 10942), (17, 11014),

Gene: TomBrady_14 Start: 10570, Stop: 11079, Start Num: 4

Candidate Starts for TomBrady_14:

(Start: 2 @10495 has 5 MA's), (3, 10525), (Start: 4 @10570 has 62 MA's), (8, 10756), (14, 10948), (17, 11020),

Gene: Wendigo_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Wendigo_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: ZoMa_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for ZoMa_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),

Gene: Zombie_14 Start: 10569, Stop: 11078, Start Num: 4

Candidate Starts for Zombie_14:

(Start: 2 @10494 has 5 MA's), (3, 10524), (Start: 4 @10569 has 62 MA's), (8, 10755), (14, 10947), (17, 11019),