

Pham 154690



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 154690 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154690 has 72 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Weirido19_52
- Track 2 : JorRay_40, Grizzly_40, OctaviousRex_40, Olga_40, LouisV14_42, Jolene_40, Phish_40, DNAll_0039, Cedasite_40, Cherrybomb426_40, BQuat_40, Jonghyun_39, Halo_40, ECartman_40, TomBrady_40, Jane_40, CassieYates_40, Phreak_40, Annihilator_40, Liefie_40, Mowgli_40, Renaissance_40, Hotshotbaby7_40, Peeb_40, Hope_40, BPs_40, Remy19_40, Frosty24_40, Periodt_40, Gideon_40, Crespo_40, Schiebel_40, Darionha_40, CLED96_40, Kareem_40, BruceB_40, ShaboiShabazz_40, Coleslaw_40, Aroostook_40, Marmie_40, Barkley26_40, Angel_40, GoldenAsh_40, Sweets_40, Chance64_40, ZoMa_40, Zombie_40, Avrafan_40, DMoney_40, Gomashi_40, Kasen3_40, Sizemore_40, PinkYoshi_40, Plagueis_40, Camri_40
- Track 3 : Sneeze_41, Rabbs_41
- Track 4 : Paito_41
- Track 5 : Terror_39, Taheera_39
- Track 6 : Cambiare_41
- Track 7 : Avocado_40
- Track 8 : Pace1224_39, FlagStaff_39
- Track 9 : Pinnie_39
- Track 10 : MOOREtheMARYer_41
- Track 11 : Jolie2_39
- Track 12 : Lemuria_41
- Track 13 : Mercurio_42
- Track 14 : Antsirabe_39
- Track 15 : Stargaze_40

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

The start number called the most often in the published annotations is 7, it was called in 58 of the 66 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel_40, Annihilator_40, Aroostook_40, Avrafan_40, BPs_40, BQuat_40, Barkley26_40, BruceB_40, CLED96_40, Camri_40, CassieYates_40, Cedasite_40, Chance64_40, Cherrybomb426_40, Coleslaw_40, Crespo_40, DMoney_40,

DNAIII_0039, Darionha_40, ECartman_40, Frosty24_40, Gideon_40, GoldenAsh_40, Gomashi_40, Grizzly_40, Halo_40, Hope_40, Hotshotbaby7_40, Jane_40, Jolene_40, Jonghyun_39, JorRay_40, Kareem_40, Kasen3_40, Liefie_40, LouisV14_42, Marmie_40, Mowgli_40, OctaviousRex_40, Olga_40, Paito_41, Peeb_40, Periodt_40, Phish_40, Phreak_40, PinkYoshi_40, Plagueis_40, Rabbs_41, Remy19_40, Renaissance_40, Schiebel_40, ShaboiShabazz_40, Sizemore_40, Sneeze_41, Sweets_40, Taheera_39, Terror_39, TomBrady_40, ZoMa_40, Zombie_40,

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

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

- Antsirabe_39, Avocado_40, Cambiare_41, FlagStaff_39, Jolie2_39, Lemuria_41, MOOREtheMARYer_41, Mercurio_42, Pace1224_39, Pinnie_39, Stargaze_40, Weirdo19_52,

Summary by start number:

Start 7:

- Found in 60 of 72 (83.3%) of genes in pham
- Manual Annotations of this start: 58 of 66
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angel_40 (G1), Annihilator_40 (G1), Aroostook_40 (G1), Avrafan_40 (G1), BPs_40 (G1), BQuat_40 (G1), Barkley26_40 (G1), BruceB_40 (G1), CLED96_40 (G1), Camri_40 (G1), CassieYates_40 (G1), Cedasite_40 (G1), Chance64_40 (G1), Cherrybomb426_40 (G1), Coleslaw_40 (G1), Crespo_40 (G1), DMoney_40 (G1), DNAIII_0039 (G1), Darionha_40 (G1), ECartman_40 (G1), Frosty24_40 (G1), Gideon_40 (G1), GoldenAsh_40 (G1), Gomashi_40 (G1), Grizzly_40 (G1), Halo_40 (G1), Hope_40 (G1), Hotshotbaby7_40 (G1), Jane_40 (G1), Jolene_40 (G1), Jonghyun_39 (G1), JorRay_40 (G1), Kareem_40 (G1), Kasen3_40 (G1), Liefie_40 (G1), LouisV14_42 (G1), Marmie_40 (G1), Mowgli_40 (G1), OctaviousRex_40 (G1), Olga_40 (G1), Paito_41 (G1), Peeb_40 (G1), Periodt_40 (G1), Phish_40 (G1), Phreak_40 (G1), PinkYoshi_40 (G1), Plagueis_40 (G1), Rabbs_41 (G1), Remy19_40 (G1), Renaissance_40 (G1), Schiebel_40 (G1), ShaboiShabazz_40 (G1), Sizemore_40 (G1), Sneeze_41 (G1), Sweets_40 (G1), Taheera_39 (G1), Terror_39 (G1), TomBrady_40 (G1), ZoMa_40 (G1), Zombie_40 (G1),

Start 8:

- Found in 1 of 72 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 66
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MOOREtheMARYer_41 (G3),

Start 10:

- Found in 10 of 72 (13.9%) of genes in pham
- Manual Annotations of this start: 7 of 66
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_39 (G5), Avocado_40 (G2), Cambiare_41 (G2), FlagStaff_39 (G2), Jolie2_39 (G4), Lemuria_41 (G4), Mercurio_42 (G4), Pace1224_39 (G2), Pinnie_39 (G3), Stargaze_40 (G5),

Start 21:

- Found in 1 of 72 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_52 (AH),

Summary by clusters:

There are 6 clusters represented in this pham: G5, G4, G3, G2, G1, AH,

Info for manual annotations of cluster G1:

- Start number 7 was manually annotated 58 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 10 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 8 was manually annotated 1 time for cluster G3.
- Start number 10 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:

- Start number 10 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 10 was manually annotated 1 time for cluster G5.

Gene Information:

Gene: Angel_40 Start: 31409, Stop: 31759, Start Num: 7

Candidate Starts for Angel_40:

(3, 31340), (Start: 7 @31409 has 58 MA's), (9, 31421), (12, 31466), (16, 31541), (18, 31589),

Gene: Annihilator_40 Start: 31415, Stop: 31765, Start Num: 7

Candidate Starts for Annihilator_40:

(3, 31346), (Start: 7 @31415 has 58 MA's), (9, 31427), (12, 31472), (16, 31547), (18, 31595),

Gene: Antsirabe_39 Start: 32012, Stop: 32317, Start Num: 10

Candidate Starts for Antsirabe_39:

(Start: 10 @32012 has 7 MA's), (12, 32045), (16, 32117),

Gene: Aroostook_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Aroostook_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Avocado_40 Start: 32687, Stop: 33001, Start Num: 10

Candidate Starts for Avocado_40:

(Start: 10 @32687 has 7 MA's), (18, 32840), (19, 32870), (20, 32924),

Gene: Avrafan_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Avrafan_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: BPs_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for BPs_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: BQuat_40 Start: 31415, Stop: 31765, Start Num: 7

Candidate Starts for BQuat_40:

(3, 31346), (Start: 7 @31415 has 58 MA's), (9, 31427), (12, 31472), (16, 31547), (18, 31595),

Gene: Barkley26_40 Start: 31431, Stop: 31781, Start Num: 7

Candidate Starts for Barkley26_40:

(3, 31362), (Start: 7 @31431 has 58 MA's), (9, 31443), (12, 31488), (16, 31563), (18, 31611),

Gene: BruceB_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for BruceB_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: CLED96_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for CLED96_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Cambiare_41 Start: 32954, Stop: 33268, Start Num: 10

Candidate Starts for Cambiare_41:

(Start: 10 @32954 has 7 MA's), (16, 33062), (18, 33107), (19, 33137), (20, 33191),

Gene: Camri_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Camri_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: CassieYates_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for CassieYates_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Cedasite_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Cedasite_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Chance64_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Chance64_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Cherrybomb426_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Cherrybomb426_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Coleslaw_40 Start: 31415, Stop: 31765, Start Num: 7

Candidate Starts for Coleslaw_40:

(3, 31346), (Start: 7 @31415 has 58 MA's), (9, 31427), (12, 31472), (16, 31547), (18, 31595),

Gene: Crespo_40 Start: 31425, Stop: 31775, Start Num: 7

Candidate Starts for Crespo_40:

(3, 31356), (Start: 7 @31425 has 58 MA's), (9, 31437), (12, 31482), (16, 31557), (18, 31605),

Gene: DMoney_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for DMoney_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: DNAIII_0039 Start: 30058, Stop: 30408, Start Num: 7

Candidate Starts for DNAIII_0039:

(3, 29989), (Start: 7 @30058 has 58 MA's), (9, 30070), (12, 30115), (16, 30190), (18, 30238),

Gene: Darionha_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Darionha_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: ECartman_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for ECartman_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: FlagStaff_39 Start: 32112, Stop: 32426, Start Num: 10

Candidate Starts for FlagStaff_39:

(Start: 10 @32112 has 7 MA's), (13, 32160), (16, 32220), (18, 32265), (19, 32295), (20, 32349),

Gene: Frosty24_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Frosty24_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Gideon_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Gideon_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: GoldenAsh_40 Start: 31409, Stop: 31759, Start Num: 7

Candidate Starts for GoldenAsh_40:

(3, 31340), (Start: 7 @31409 has 58 MA's), (9, 31421), (12, 31466), (16, 31541), (18, 31589),

Gene: Gomashi_40 Start: 31425, Stop: 31775, Start Num: 7

Candidate Starts for Gomashi_40:

(3, 31356), (Start: 7 @31425 has 58 MA's), (9, 31437), (12, 31482), (16, 31557), (18, 31605),

Gene: Grizzly_40 Start: 31409, Stop: 31759, Start Num: 7

Candidate Starts for Grizzly_40:

(3, 31340), (Start: 7 @31409 has 58 MA's), (9, 31421), (12, 31466), (16, 31541), (18, 31589),

Gene: Halo_40 Start: 31419, Stop: 31769, Start Num: 7

Candidate Starts for Halo_40:

(3, 31350), (Start: 7 @31419 has 58 MA's), (9, 31431), (12, 31476), (16, 31551), (18, 31599),

Gene: Hope_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Hope_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Hotshotbaby7_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Hotshotbaby7_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Jane_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Jane_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Jolene_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Jolene_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Jolie2_39 Start: 31053, Stop: 31388, Start Num: 10

Candidate Starts for Jolie2_39:

(Start: 10 @31053 has 7 MA's), (20, 31296),

Gene: Jonghyun_39 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Jonghyun_39:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: JorRay_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for JorRay_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Kareem_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Kareem_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Kasen3_40 Start: 31410, Stop: 31760, Start Num: 7

Candidate Starts for Kasen3_40:

(3, 31341), (Start: 7 @31410 has 58 MA's), (9, 31422), (12, 31467), (16, 31542), (18, 31590),

Gene: Lemuria_41 Start: 32422, Stop: 32733, Start Num: 10

Candidate Starts for Lemuria_41:

(Start: 10 @32422 has 7 MA's), (16, 32527), (18, 32575), (19, 32605),

Gene: Liefie_40 Start: 31422, Stop: 31772, Start Num: 7

Candidate Starts for Liefie_40:

(3, 31353), (Start: 7 @31422 has 58 MA's), (9, 31434), (12, 31479), (16, 31554), (18, 31602),

Gene: LouisV14_42 Start: 33689, Stop: 34039, Start Num: 7

Candidate Starts for LouisV14_42:

(3, 33620), (Start: 7 @33689 has 58 MA's), (9, 33701), (12, 33746), (16, 33821), (18, 33869),

Gene: MOOREtheMARYer_41 Start: 32645, Stop: 32965, Start Num: 8

Candidate Starts for MOOREtheMARYer_41:

(5, 32585), (Start: 8 @32645 has 1 MA's),

Gene: Marmie_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Marmie_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Mercurio_42 Start: 32919, Stop: 33233, Start Num: 10

Candidate Starts for Mercurio_42:

(Start: 10 @32919 has 7 MA's), (16, 33024), (20, 33156),

Gene: Mowgli_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Mowgli_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: OctaviousRex_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for OctaviousRex_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Olga_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Olga_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Pace1224_39 Start: 32112, Stop: 32426, Start Num: 10

Candidate Starts for Pace1224_39:

(Start: 10 @32112 has 7 MA's), (13, 32160), (16, 32220), (18, 32265), (19, 32295), (20, 32349),

Gene: Paito_41 Start: 31760, Stop: 31999, Start Num: 7

Candidate Starts for Paito_41:

(3, 31691), (Start: 7 @31760 has 58 MA's), (15, 31889), (17, 31895), (18, 31937),

Gene: Peeb_40 Start: 31409, Stop: 31759, Start Num: 7

Candidate Starts for Peeb_40:

(3, 31340), (Start: 7 @31409 has 58 MA's), (9, 31421), (12, 31466), (16, 31541), (18, 31589),

Gene: Periodt_40 Start: 31415, Stop: 31765, Start Num: 7

Candidate Starts for Periodt_40:

(3, 31346), (Start: 7 @31415 has 58 MA's), (9, 31427), (12, 31472), (16, 31547), (18, 31595),

Gene: Phish_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Phish_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Phreak_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Phreak_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: PinkYoshi_40 Start: 31415, Stop: 31765, Start Num: 7

Candidate Starts for PinkYoshi_40:

(3, 31346), (Start: 7 @31415 has 58 MA's), (9, 31427), (12, 31472), (16, 31547), (18, 31595),

Gene: Pinnie_39 Start: 32359, Stop: 32673, Start Num: 10

Candidate Starts for Pinnie_39:

(5, 32293), (6, 32323), (Start: 10 @32359 has 7 MA's),

Gene: Plagueis_40 Start: 31244, Stop: 31594, Start Num: 7

Candidate Starts for Plagueis_40:

(3, 31175), (Start: 7 @31244 has 58 MA's), (9, 31256), (12, 31301), (16, 31376), (18, 31424),

Gene: Rabbs_41 Start: 31662, Stop: 31925, Start Num: 7

Candidate Starts for Rabbs_41:

(3, 31593), (Start: 7 @31662 has 58 MA's), (12, 31719), (15, 31791), (17, 31797), (18, 31839),

Gene: Remy19_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Remy19_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Renaissance_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Renaissance_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Schiebel_40 Start: 31409, Stop: 31759, Start Num: 7

Candidate Starts for Schiebel_40:

(3, 31340), (Start: 7 @31409 has 58 MA's), (9, 31421), (12, 31466), (16, 31541), (18, 31589),

Gene: ShaboiShabazz_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for ShaboiShabazz_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Sizemore_40 Start: 31410, Stop: 31760, Start Num: 7

Candidate Starts for Sizemore_40:

(3, 31341), (Start: 7 @31410 has 58 MA's), (9, 31422), (12, 31467), (16, 31542), (18, 31590),

Gene: Sneeze_41 Start: 31661, Stop: 31924, Start Num: 7

Candidate Starts for Sneeze_41:

(3, 31592), (Start: 7 @31661 has 58 MA's), (12, 31718), (15, 31790), (17, 31796), (18, 31838),

Gene: Stargaze_40 Start: 32350, Stop: 32655, Start Num: 10

Candidate Starts for Stargaze_40:

(4, 32272), (Start: 10 @32350 has 7 MA's), (15, 32452), (16, 32455),

Gene: Sweets_40 Start: 31419, Stop: 31769, Start Num: 7

Candidate Starts for Sweets_40:

(3, 31350), (Start: 7 @31419 has 58 MA's), (9, 31431), (12, 31476), (16, 31551), (18, 31599),

Gene: Taheera_39 Start: 31189, Stop: 31452, Start Num: 7

Candidate Starts for Taheera_39:

(1, 30970), (2, 30988), (3, 31120), (Start: 7 @31189 has 58 MA's), (12, 31246), (15, 31318), (17, 31324), (18, 31366),

Gene: Terror_39 Start: 31189, Stop: 31452, Start Num: 7

Candidate Starts for Terror_39:

(1, 30970), (2, 30988), (3, 31120), (Start: 7 @31189 has 58 MA's), (12, 31246), (15, 31318), (17, 31324), (18, 31366),

Gene: TomBrady_40 Start: 31425, Stop: 31775, Start Num: 7

Candidate Starts for TomBrady_40:

(3, 31356), (Start: 7 @31425 has 58 MA's), (9, 31437), (12, 31482), (16, 31557), (18, 31605),

Gene: Weirdo19_52 Start: 36999, Stop: 37223, Start Num: 21

Candidate Starts for Weirdo19_52:

(11, 36675), (14, 36762), (21, 36999), (22, 37035), (23, 37050), (24, 37107), (25, 37146), (26, 37155), (27, 37212),

Gene: ZoMa_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for ZoMa_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),

Gene: Zombie_40 Start: 31424, Stop: 31774, Start Num: 7

Candidate Starts for Zombie_40:

(3, 31355), (Start: 7 @31424 has 58 MA's), (9, 31436), (12, 31481), (16, 31556), (18, 31604),