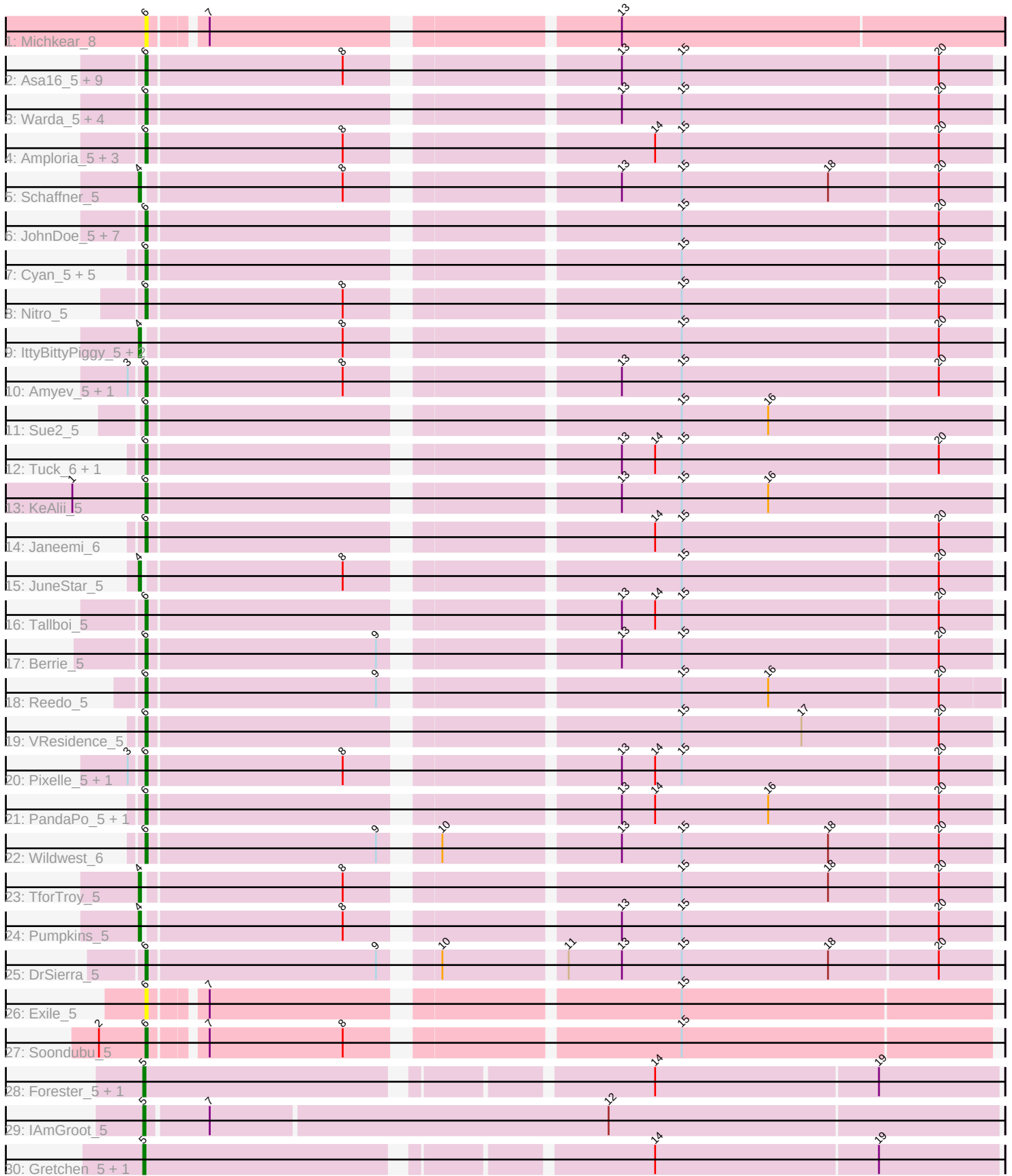


Pham 319318



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 319318 Report

This analysis was run 09/05/26 on database version 662.

Pham number 319318 has 66 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Michkear_8
- Track 2 : Asa16_5, Jstan_5, Eraser_5, Elezi_5, Niobe_5, Iter_5, Subaru_5, Ascela_5, London_5, Skelbel_5
- Track 3 : Warda_5, Mudpuppy_5, AGrandiflora_5, Tbone_5, Lizalica_5
- Track 4 : Amploria_5, AEgle_5, Turab_5, Adumb2043_5
- Track 5 : Schaffner_5
- Track 6 : JohnDoe_5, Lego_5, YesChef_5, Tutumahutu_5, Flutur_5, Crewmate_6, ObiToo_5, Powerpuff_5
- Track 7 : Cyan_5, Adolin_5, DrManhattan_5, Simpson_5, Joemato_5, Kaylissa_5
- Track 8 : Nitro_5
- Track 9 : IttyBittyPiggy_5, Cassia_5, Yang_5
- Track 10 : Amyev_5, Tian_5
- Track 11 : Sue2_5
- Track 12 : Tuck_6, Community_6
- Track 13 : KeAlii_5
- Track 14 : Janeemi_6
- Track 15 : JuneStar_5
- Track 16 : Tallboi_5
- Track 17 : Berrie_5
- Track 18 : Reedo_5
- Track 19 : VResidence_5
- Track 20 : Pixelle_5, Phives_6
- Track 21 : PandaPo_5, MissSwiss_5
- Track 22 : Wildwest_6
- Track 23 : TforTroy_5
- Track 24 : Pumpkins_5
- Track 25 : DrSierra_5
- Track 26 : Exile_5
- Track 27 : Soondubu_5
- Track 28 : Forester_5, SuperHands_5
- Track 29 : IAmGroot_5
- Track 30 : Gretchen_5, Percival_5

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

The start number called the most often in the published annotations is 6, it was called in 43 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_5, AGrandiflora_5, Adolin_5, Adumb2043_5, Amploria_5, Amyev_5, Asa16_5, Ascela_5, Berrie_5, Community_6, Crewmate_6, Cyan_5, DrManhattan_5, DrSierra_5, Elezi_5, Eraser_5, Exile_5, Flutur_5, Iter_5, Janeemi_6, Joemato_5, JohnDoe_5, Jstan_5, Kaylissa_5, KeAlii_5, Lego_5, Lizalica_5, London_5, Michkear_8, MissSwiss_5, Mudpuppy_5, Niobe_5, Nitro_5, ObiToo_5, PandaPo_5, Phives_6, Pixelle_5, Powerpuff_5, Reedo_5, Simpson_5, Skelbel_5, Soondubu_5, Subaru_5, Sue2_5, Tallboi_5, Tbone_5, Tian_5, Tuck_6, Turab_5, Tutumahutu_5, VResidence_5, Warda_5, Wildwest_6, YesChef_5,

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

-

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

- Cassia_5, Forester_5, Gretchen_5, IAmGroot_5, IttyBittyPiggy_5, JuneStar_5, Percival_5, Pumpkins_5, Schaffner_5, SuperHands_5, TforTroy_5, Yang_5,

Summary by start number:

Start 4:

- Found in 7 of 66 (10.6%) of genes in pham
- Manual Annotations of this start: 7 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassia_5 (AZ1), IttyBittyPiggy_5 (AZ1), JuneStar_5 (AZ1), Pumpkins_5 (AZ1), Schaffner_5 (AZ1), TforTroy_5 (AZ1), Yang_5 (AZ1),

Start 5:

- Found in 5 of 66 (7.6%) of genes in pham
- Manual Annotations of this start: 5 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forester_5 (EH), Gretchen_5 (EH), IAmGroot_5 (EH), Percival_5 (EH), SuperHands_5 (EH),

Start 6:

- Found in 54 of 66 (81.8%) of genes in pham
- Manual Annotations of this start: 43 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_5 (AZ1), AGrandiflora_5 (AZ1), Adolin_5 (AZ1), Adumb2043_5 (AZ1), Amploria_5 (AZ1), Amyev_5 (AZ1), Asa16_5 (AZ1), Ascela_5 (AZ1), Berrie_5 (AZ1), Community_6 (AZ1), Crewmate_6 (AZ1), Cyan_5 (AZ1), DrManhattan_5 (AZ1), DrSierra_5 (AZ1), Elezi_5 (AZ1), Eraser_5 (AZ1), Exile_5 (AZ6), Flutur_5 (AZ), Iter_5 (AZ1), Janeemi_6 (AZ1), Joemato_5 (AZ1), JohnDoe_5 (AZ1), Jstan_5 (AZ1), Kaylissa_5 (AZ1), KeAlii_5 (AZ1), Lego_5 (AZ1), Lizalica_5 (AZ1), London_5 (AZ1), Michkear_8 (AZ), MissSwiss_5 (AZ1), Mudpuppy_5 (AZ1), Niobe_5 (AZ1), Nitro_5 (AZ1), ObiToo_5 (AZ1), PandaPo_5 (AZ1), Phives_6 (AZ1), Pixelle_5 (AZ1), Powerpuff_5 (AZ1), Reedo_5 (AZ1), Simpson_5 (AZ1), Skelbel_5 (AZ1), Soondubu_5 (AZ6), Subaru_5 (AZ1), Sue2_5 (AZ1), Tallboi_5 (AZ1), Tbone_5 (AZ1), Tian_5 (AZ1), Tuck_6 (AZ1), Turab_5 (AZ1),

Tutumahutu_5 (AZ1), VResidence_5 (AZ1), Warda_5 (AZ1), Wildwest_6 (AZ1), YesChef_5 (AZ1),

Summary by clusters:

There are 4 clusters represented in this pham: AZ1, AZ, EH, AZ6,

Info for manual annotations of cluster AZ1:

- Start number 4 was manually annotated 7 times for cluster AZ1.
- Start number 6 was manually annotated 42 times for cluster AZ1.

Info for manual annotations of cluster AZ6:

- Start number 6 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster EH:

- Start number 5 was manually annotated 5 times for cluster EH.

Gene Information:

Gene: AEgle_5 Start: 5771, Stop: 6130, Start Num: 6

Candidate Starts for AEgle_5:

(Start: 6 @5771 has 43 MA's), (8, 5858), (14, 5981), (15, 5993), (20, 6107),

Gene: AGrandiflora_5 Start: 5774, Stop: 6133, Start Num: 6

Candidate Starts for AGrandiflora_5:

(Start: 6 @5774 has 43 MA's), (13, 5969), (15, 5996), (20, 6110),

Gene: Adolin_5 Start: 5792, Stop: 6151, Start Num: 6

Candidate Starts for Adolin_5:

(Start: 6 @5792 has 43 MA's), (15, 6014), (20, 6128),

Gene: Adumb2043_5 Start: 5770, Stop: 6129, Start Num: 6

Candidate Starts for Adumb2043_5:

(Start: 6 @5770 has 43 MA's), (8, 5857), (14, 5980), (15, 5992), (20, 6106),

Gene: Amploria_5 Start: 5770, Stop: 6129, Start Num: 6

Candidate Starts for Amploria_5:

(Start: 6 @5770 has 43 MA's), (8, 5857), (14, 5980), (15, 5992), (20, 6106),

Gene: Amyev_5 Start: 5786, Stop: 6145, Start Num: 6

Candidate Starts for Amyev_5:

(3, 5780), (Start: 6 @5786 has 43 MA's), (8, 5873), (13, 5981), (15, 6008), (20, 6122),

Gene: Asa16_5 Start: 5767, Stop: 6126, Start Num: 6

Candidate Starts for Asa16_5:

(Start: 6 @5767 has 43 MA's), (8, 5854), (13, 5962), (15, 5989), (20, 6103),

Gene: Ascela_5 Start: 5773, Stop: 6132, Start Num: 6

Candidate Starts for Ascela_5:

(Start: 6 @5773 has 43 MA's), (8, 5860), (13, 5968), (15, 5995), (20, 6109),

Gene: Berrie_5 Start: 5770, Stop: 6129, Start Num: 6
Candidate Starts for Berrie_5:
(Start: 6 @5770 has 43 MA's), (9, 5872), (13, 5965), (15, 5992), (20, 6106),

Gene: Cassia_5 Start: 5874, Stop: 6233, Start Num: 4
Candidate Starts for Cassia_5:
(Start: 4 @5874 has 7 MA's), (8, 5961), (15, 6096), (20, 6210),

Gene: Community_6 Start: 6846, Stop: 7205, Start Num: 6
Candidate Starts for Community_6:
(Start: 6 @6846 has 43 MA's), (13, 7041), (14, 7056), (15, 7068), (20, 7182),

Gene: Crewmate_6 Start: 6206, Stop: 6565, Start Num: 6
Candidate Starts for Crewmate_6:
(Start: 6 @6206 has 43 MA's), (15, 6428), (20, 6542),

Gene: Cyan_5 Start: 5778, Stop: 6137, Start Num: 6
Candidate Starts for Cyan_5:
(Start: 6 @5778 has 43 MA's), (15, 6000), (20, 6114),

Gene: DrManhattan_5 Start: 5791, Stop: 6150, Start Num: 6
Candidate Starts for DrManhattan_5:
(Start: 6 @5791 has 43 MA's), (15, 6013), (20, 6127),

Gene: DrSierra_5 Start: 5787, Stop: 6146, Start Num: 6
Candidate Starts for DrSierra_5:
(Start: 6 @5787 has 43 MA's), (9, 5889), (10, 5907), (11, 5958), (13, 5982), (15, 6009), (18, 6075), (20, 6123),

Gene: Elezi_5 Start: 5768, Stop: 6127, Start Num: 6
Candidate Starts for Elezi_5:
(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Eraser_5 Start: 5768, Stop: 6127, Start Num: 6
Candidate Starts for Eraser_5:
(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Exile_5 Start: 5786, Stop: 6139, Start Num: 6
Candidate Starts for Exile_5:
(Start: 6 @5786 has 43 MA's), (7, 5807), (15, 6002),

Gene: Flutur_5 Start: 5777, Stop: 6136, Start Num: 6
Candidate Starts for Flutur_5:
(Start: 6 @5777 has 43 MA's), (15, 5999), (20, 6113),

Gene: Forester_5 Start: 6064, Stop: 6426, Start Num: 5
Candidate Starts for Forester_5:
(Start: 5 @6064 has 5 MA's), (14, 6274), (19, 6373),

Gene: Gretchen_5 Start: 6058, Stop: 6420, Start Num: 5
Candidate Starts for Gretchen_5:
(Start: 5 @6058 has 5 MA's), (14, 6268), (19, 6367),

Gene: IAmGroot_5 Start: 5830, Stop: 6207, Start Num: 5

Candidate Starts for IAmGroot_5:

(Start: 5 @5830 has 5 MA's), (7, 5857), (12, 6034),

Gene: Iter_5 Start: 5773, Stop: 6132, Start Num: 6

Candidate Starts for Iter_5:

(Start: 6 @5773 has 43 MA's), (8, 5860), (13, 5968), (15, 5995), (20, 6109),

Gene: IttyBittyPiggy_5 Start: 5769, Stop: 6128, Start Num: 4

Candidate Starts for IttyBittyPiggy_5:

(Start: 4 @5769 has 7 MA's), (8, 5856), (15, 5991), (20, 6105),

Gene: Janeemi_6 Start: 6878, Stop: 7237, Start Num: 6

Candidate Starts for Janeemi_6:

(Start: 6 @6878 has 43 MA's), (14, 7088), (15, 7100), (20, 7214),

Gene: Joemato_5 Start: 5778, Stop: 6137, Start Num: 6

Candidate Starts for Joemato_5:

(Start: 6 @5778 has 43 MA's), (15, 6000), (20, 6114),

Gene: JohnDoe_5 Start: 5776, Stop: 6135, Start Num: 6

Candidate Starts for JohnDoe_5:

(Start: 6 @5776 has 43 MA's), (15, 5998), (20, 6112),

Gene: Jstan_5 Start: 5768, Stop: 6127, Start Num: 6

Candidate Starts for Jstan_5:

(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: JuneStar_5 Start: 5877, Stop: 6236, Start Num: 4

Candidate Starts for JuneStar_5:

(Start: 4 @5877 has 7 MA's), (8, 5964), (15, 6099), (20, 6213),

Gene: Kaylissa_5 Start: 5778, Stop: 6137, Start Num: 6

Candidate Starts for Kaylissa_5:

(Start: 6 @5778 has 43 MA's), (15, 6000), (20, 6114),

Gene: KeAlii_5 Start: 5756, Stop: 6115, Start Num: 6

Candidate Starts for KeAlii_5:

(1, 5723), (Start: 6 @5756 has 43 MA's), (13, 5951), (15, 5978), (16, 6017),

Gene: Lego_5 Start: 5777, Stop: 6136, Start Num: 6

Candidate Starts for Lego_5:

(Start: 6 @5777 has 43 MA's), (15, 5999), (20, 6113),

Gene: Lizalica_5 Start: 5769, Stop: 6128, Start Num: 6

Candidate Starts for Lizalica_5:

(Start: 6 @5769 has 43 MA's), (13, 5964), (15, 5991), (20, 6105),

Gene: London_5 Start: 5768, Stop: 6127, Start Num: 6

Candidate Starts for London_5:

(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Michkear_8 Start: 7646, Stop: 8005, Start Num: 6

Candidate Starts for Michkear_8:

(Start: 6 @7646 has 43 MA's), (7, 7667), (13, 7835),

Gene: MissSwiss_5 Start: 5797, Stop: 6156, Start Num: 6

Candidate Starts for MissSwiss_5:

(Start: 6 @5797 has 43 MA's), (13, 5992), (14, 6007), (16, 6058), (20, 6133),

Gene: Mudpuppy_5 Start: 5777, Stop: 6136, Start Num: 6

Candidate Starts for Mudpuppy_5:

(Start: 6 @5777 has 43 MA's), (13, 5972), (15, 5999), (20, 6113),

Gene: Niobe_5 Start: 5768, Stop: 6127, Start Num: 6

Candidate Starts for Niobe_5:

(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Nitro_5 Start: 5777, Stop: 6136, Start Num: 6

Candidate Starts for Nitro_5:

(Start: 6 @5777 has 43 MA's), (8, 5864), (15, 5999), (20, 6113),

Gene: ObiToo_5 Start: 5956, Stop: 6315, Start Num: 6

Candidate Starts for ObiToo_5:

(Start: 6 @5956 has 43 MA's), (15, 6178), (20, 6292),

Gene: PandaPo_5 Start: 5797, Stop: 6156, Start Num: 6

Candidate Starts for PandaPo_5:

(Start: 6 @5797 has 43 MA's), (13, 5992), (14, 6007), (16, 6058), (20, 6133),

Gene: Percival_5 Start: 5891, Stop: 6253, Start Num: 5

Candidate Starts for Percival_5:

(Start: 5 @5891 has 5 MA's), (14, 6101), (19, 6200),

Gene: Phives_6 Start: 6846, Stop: 7205, Start Num: 6

Candidate Starts for Phives_6:

(3, 6840), (Start: 6 @6846 has 43 MA's), (8, 6933), (13, 7041), (14, 7056), (15, 7068), (20, 7182),

Gene: Pixelle_5 Start: 5785, Stop: 6144, Start Num: 6

Candidate Starts for Pixelle_5:

(3, 5779), (Start: 6 @5785 has 43 MA's), (8, 5872), (13, 5980), (14, 5995), (15, 6007), (20, 6121),

Gene: Powerpuff_5 Start: 5828, Stop: 6187, Start Num: 6

Candidate Starts for Powerpuff_5:

(Start: 6 @5828 has 43 MA's), (15, 6050), (20, 6164),

Gene: Pumpkins_5 Start: 5874, Stop: 6233, Start Num: 4

Candidate Starts for Pumpkins_5:

(Start: 4 @5874 has 7 MA's), (8, 5961), (13, 6069), (15, 6096), (20, 6210),

Gene: Reedo_5 Start: 5791, Stop: 6153, Start Num: 6

Candidate Starts for Reedo_5:

(Start: 6 @5791 has 43 MA's), (9, 5893), (15, 6013), (16, 6052), (20, 6127),

Gene: Schaffner_5 Start: 5872, Stop: 6231, Start Num: 4

Candidate Starts for Schaffner_5:

(Start: 4 @5872 has 7 MA's), (8, 5959), (13, 6067), (15, 6094), (18, 6160), (20, 6208),

Gene: Simpson_5 Start: 5778, Stop: 6137, Start Num: 6

Candidate Starts for Simpson_5:

(Start: 6 @5778 has 43 MA's), (15, 6000), (20, 6114),

Gene: Skelbel_5 Start: 5768, Stop: 6127, Start Num: 6

Candidate Starts for Skelbel_5:

(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Soondubu_5 Start: 5790, Stop: 6143, Start Num: 6

Candidate Starts for Soondubu_5:

(2, 5769), (Start: 6 @5790 has 43 MA's), (7, 5811), (8, 5871), (15, 6006),

Gene: Subaru_5 Start: 5768, Stop: 6127, Start Num: 6

Candidate Starts for Subaru_5:

(Start: 6 @5768 has 43 MA's), (8, 5855), (13, 5963), (15, 5990), (20, 6104),

Gene: Sue2_5 Start: 5771, Stop: 6130, Start Num: 6

Candidate Starts for Sue2_5:

(Start: 6 @5771 has 43 MA's), (15, 5993), (16, 6032),

Gene: SuperHands_5 Start: 6064, Stop: 6426, Start Num: 5

Candidate Starts for SuperHands_5:

(Start: 5 @6064 has 5 MA's), (14, 6274), (19, 6373),

Gene: Tallboi_5 Start: 5786, Stop: 6145, Start Num: 6

Candidate Starts for Tallboi_5:

(Start: 6 @5786 has 43 MA's), (13, 5981), (14, 5996), (15, 6008), (20, 6122),

Gene: Tbone_5 Start: 5774, Stop: 6133, Start Num: 6

Candidate Starts for Tbone_5:

(Start: 6 @5774 has 43 MA's), (13, 5969), (15, 5996), (20, 6110),

Gene: TforTroy_5 Start: 5889, Stop: 6248, Start Num: 4

Candidate Starts for TforTroy_5:

(Start: 4 @5889 has 7 MA's), (8, 5976), (15, 6111), (18, 6177), (20, 6225),

Gene: Tian_5 Start: 5786, Stop: 6145, Start Num: 6

Candidate Starts for Tian_5:

(3, 5780), (Start: 6 @5786 has 43 MA's), (8, 5873), (13, 5981), (15, 6008), (20, 6122),

Gene: Tuck_6 Start: 6834, Stop: 7193, Start Num: 6

Candidate Starts for Tuck_6:

(Start: 6 @6834 has 43 MA's), (13, 7029), (14, 7044), (15, 7056), (20, 7170),

Gene: Turab_5 Start: 5770, Stop: 6129, Start Num: 6

Candidate Starts for Turab_5:

(Start: 6 @5770 has 43 MA's), (8, 5857), (14, 5980), (15, 5992), (20, 6106),

Gene: Tutumahutu_5 Start: 5828, Stop: 6187, Start Num: 6

Candidate Starts for Tutumahutu_5:

(Start: 6 @5828 has 43 MA's), (15, 6050), (20, 6164),

Gene: VResidence_5 Start: 5850, Stop: 6209, Start Num: 6

Candidate Starts for VResidence_5:

(Start: 6 @5850 has 43 MA's), (15, 6072), (17, 6126), (20, 6186),

Gene: Warda_5 Start: 5774, Stop: 6133, Start Num: 6

Candidate Starts for Warda_5:

(Start: 6 @5774 has 43 MA's), (13, 5969), (15, 5996), (20, 6110),

Gene: Wildwest_6 Start: 6717, Stop: 7076, Start Num: 6

Candidate Starts for Wildwest_6:

(Start: 6 @6717 has 43 MA's), (9, 6819), (10, 6837), (13, 6912), (15, 6939), (18, 7005), (20, 7053),

Gene: Yang_5 Start: 5872, Stop: 6231, Start Num: 4

Candidate Starts for Yang_5:

(Start: 4 @5872 has 7 MA's), (8, 5959), (15, 6094), (20, 6208),

Gene: YesChef_5 Start: 5828, Stop: 6187, Start Num: 6

Candidate Starts for YesChef_5:

(Start: 6 @5828 has 43 MA's), (15, 6050), (20, 6164),