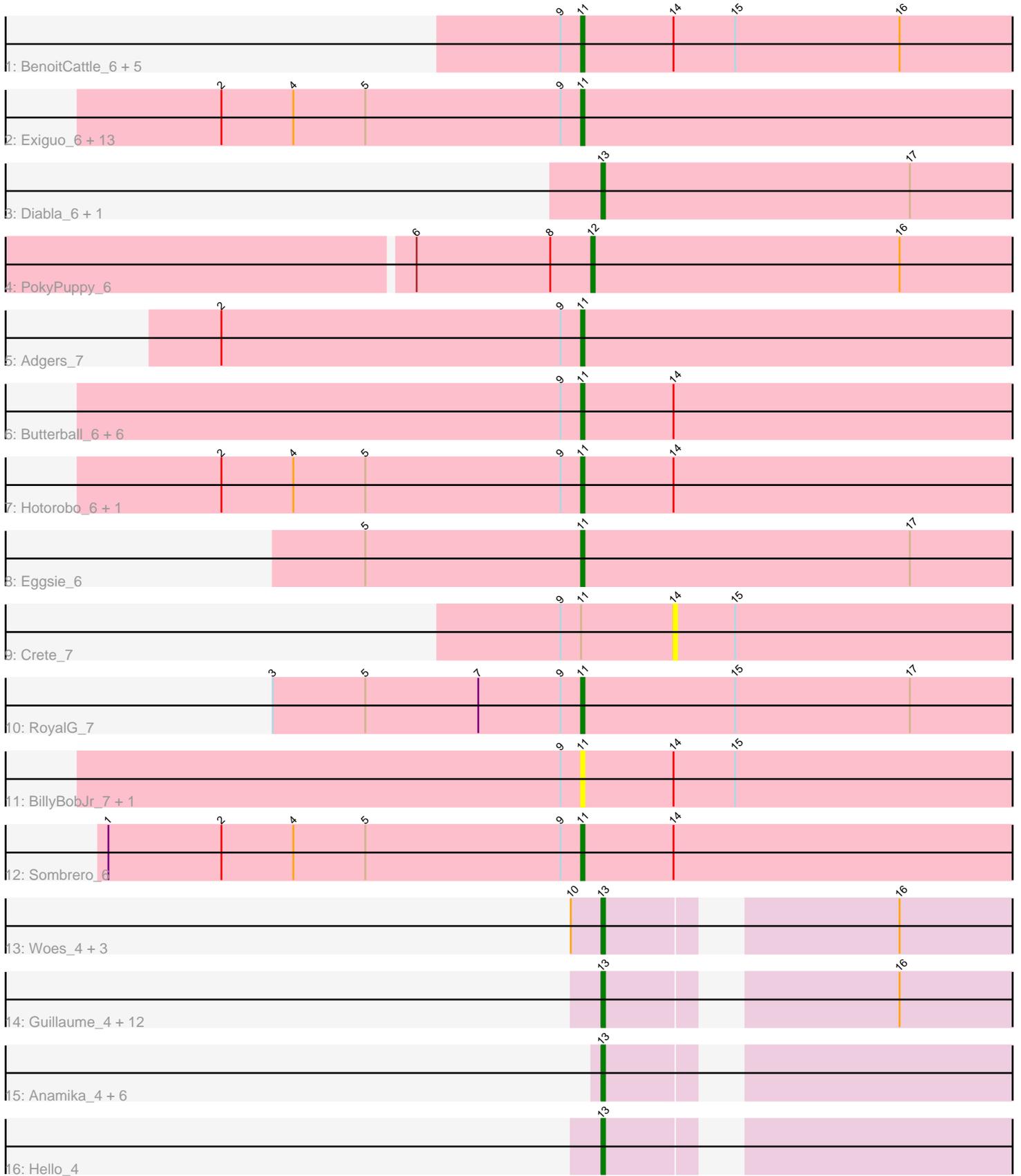


Pham 289399



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 289399 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289399 has 64 members, 5 are drafts.

Phages represented in each track:

- Track 1 : BenoitCattle_6, Dakiti_6, BigShaq_6, Linetti_7, Chelms_6, PierreThree_6
- Track 2 : Exiguo_6, Lizzo_6, RemRem_6, CathyBurgh_6, Breezic_6, Squibbles_6, Kelzog_6, Gorko_6, Flakey_6, Worcestershire_6, Sam12_6, John316_6, GourdThymes_6, Barbochs_6
- Track 3 : Diabla_6, SteveFrench_6
- Track 4 : PokyPuppy_6
- Track 5 : Adgers_7
- Track 6 : Butterball_6, Jellybones_6, FelixAlejandro_7, Boneham_6, BirksAndSocks_6, Poland_7, Msay19_7
- Track 7 : Hotorobo_6, Ekhein_6
- Track 8 : Eggsie_6
- Track 9 : Crete_7
- Track 10 : RoyalG_7
- Track 11 : BillyBobJr_7, CinnamonToast_7
- Track 12 : Sombrero_6
- Track 13 : Woes_4, Minos_4, Jams_4, Damp_4
- Track 14 : Guillaume_4, MrWormie_4, Sticker17_4, Shelley_4, Charianelly_4, Nimi13_4, Lidong_4, Newt_4, Kaseim_4, Teal_4, Bianmat_4, Berries_4, GalacticEye_4
- Track 15 : Anamika_4, Luker_4, Harambe_4, Jormungandr_4, Hail2Pitt_4, Lahirium_4, Neoevie_4
- Track 16 : Hello_4

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

The start number called the most often in the published annotations is 11, it was called in 31 of the 59 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_7, Barbochs_6, BenoitCattle_6, BigShaq_6, BillyBobJr_7, BirksAndSocks_6, Boneham_6, Breezic_6, Butterball_6, CathyBurgh_6, Chelms_6, CinnamonToast_7, Dakiti_6, Eggsie_6, Ekhein_6, Exiguo_6, FelixAlejandro_7, Flakey_6, Gorko_6, GourdThymes_6, Hotorobo_6, Jellybones_6, John316_6, Kelzog_6, Linetti_7, Lizzo_6, Msay19_7, PierreThree_6, Poland_7, RemRem_6,

RoyalG_7, Sam12_6, Sombrero_6, Squibbles_6, Worcestershire_6,

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

- Crete_7,

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

- Anamika_4, Berries_4, Bianmat_4, Charianelly_4, Damp_4, Diabla_6, GalacticEye_4, Guillaume_4, Hail2Pitt_4, Harambe_4, Hello_4, Jams_4, Jormungandr_4, Kaseim_4, Lahirium_4, Lidong_4, Luker_4, Minos_4, MrWormie_4, Neevie_4, Newt_4, Nimi13_4, PokyPuppy_6, Shelley_4, SteveFrench_6, Sticker17_4, Teal_4, Woes_4,

Summary by start number:

Start 11:

- Found in 36 of 64 (56.2%) of genes in pham
- Manual Annotations of this start: 31 of 59
- Called 97.2% of time when present
- Phage (with cluster) where this start called: Adgers_7 (CS2), Barbochs_6 (CS2), BenoitCattle_6 (CS2), BigShaq_6 (CS2), BillyBobJr_7 (CS2), BirksAndSocks_6 (CS2), Boneham_6 (CS2), Breezic_6 (CS2), Butterball_6 (CS2), CathyBurgh_6 (CS2), Chelms_6 (CS2), CinnamonToast_7 (CS2), Dakiti_6 (CS2), Eggsie_6 (CS2), Ekhein_6 (CS2), Exiguo_6 (CS2), FelixAlejandro_7 (CS2), Flakey_6 (CS2), Gorko_6 (CS2), GourdThymes_6 (CS2), Hotorobo_6 (CS2), Jellybones_6 (CS2), John316_6 (CS2), Kelzog_6 (CS2), Linetti_7 (CS2), Lizzo_6 (CS2), Msay19_7 (CS2), PierreThree_6 (CS2), Poland_7 (CS2), RemRem_6 (CS2), RoyalG_7 (CS2), Sam12_6 (CS2), Sombrero_6 (CS2), Squibbles_6 (CS2), Worcestershire_6 (CS2),

Start 12:

- Found in 1 of 64 (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: PokyPuppy_6 (CS2),

Start 13:

- Found in 27 of 64 (42.2%) of genes in pham
- Manual Annotations of this start: 27 of 59
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anamika_4 (CS3), Berries_4 (CS3), Bianmat_4 (CS3), Charianelly_4 (CS3), Damp_4 (CS3), Diabla_6 (CS2), GalacticEye_4 (CS3), Guillaume_4 (CS3), Hail2Pitt_4 (CS3), Harambe_4 (CS3), Hello_4 (CS3), Jams_4 (CS3), Jormungandr_4 (CS3), Kaseim_4 (CS3), Lahirium_4 (CS3), Lidong_4 (CS3), Luker_4 (CS3), Minos_4 (CS3), MrWormie_4 (CS3), Neevie_4 (CS3), Newt_4 (CS3), Nimi13_4 (CS3), Shelley_4 (CS3), SteveFrench_6 (CS2), Sticker17_4 (CS3), Teal_4 (CS3), Woes_4 (CS3),

Start 14:

- Found in 19 of 64 (29.7%) of genes in pham
- No Manual Annotations of this start.
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Crete_7 (CS2),

Summary by clusters:

There are 2 clusters represented in this pham: CS3, CS2,

Info for manual annotations of cluster CS2:

- Start number 11 was manually annotated 31 times for cluster CS2.
- Start number 12 was manually annotated 1 time for cluster CS2.
- Start number 13 was manually annotated 2 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 13 was manually annotated 25 times for cluster CS3.

Gene Information:

Gene: Adgers_7 Start: 4589, Stop: 4446, Start Num: 11

Candidate Starts for Adgers_7:

(2, 4694), (9, 4595), (Start: 11 @4589 has 31 MA's),

Gene: Anamika_4 Start: 3734, Stop: 3615, Start Num: 13

Candidate Starts for Anamika_4:

(Start: 13 @3734 has 27 MA's),

Gene: Barbochs_6 Start: 4424, Stop: 4281, Start Num: 11

Candidate Starts for Barbochs_6:

(2, 4529), (4, 4508), (5, 4487), (9, 4430), (Start: 11 @4424 has 31 MA's),

Gene: BenoitCattle_6 Start: 4413, Stop: 4270, Start Num: 11

Candidate Starts for BenoitCattle_6:

(9, 4419), (Start: 11 @4413 has 31 MA's), (14, 4386), (15, 4368), (16, 4320),

Gene: Berries_4 Start: 3723, Stop: 3598, Start Num: 13

Candidate Starts for Berries_4:

(Start: 13 @3723 has 27 MA's), (16, 3651),

Gene: Bianmat_4 Start: 3746, Stop: 3621, Start Num: 13

Candidate Starts for Bianmat_4:

(Start: 13 @3746 has 27 MA's), (16, 3674),

Gene: BigShaq_6 Start: 4415, Stop: 4272, Start Num: 11

Candidate Starts for BigShaq_6:

(9, 4421), (Start: 11 @4415 has 31 MA's), (14, 4388), (15, 4370), (16, 4322),

Gene: BillyBobJr_7 Start: 4459, Stop: 4316, Start Num: 11

Candidate Starts for BillyBobJr_7:

(9, 4465), (Start: 11 @4459 has 31 MA's), (14, 4432), (15, 4414),

Gene: BirksAndSocks_6 Start: 4424, Stop: 4281, Start Num: 11

Candidate Starts for BirksAndSocks_6:

(9, 4430), (Start: 11 @4424 has 31 MA's), (14, 4397),

Gene: Boneham_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for Boneham_6:

(9, 4429), (Start: 11 @4423 has 31 MA's), (14, 4396),

Gene: Breezic_6 Start: 4435, Stop: 4292, Start Num: 11

Candidate Starts for Breezic_6:

(2, 4540), (4, 4519), (5, 4498), (9, 4441), (Start: 11 @4435 has 31 MA's),

Gene: Butterball_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for Butterball_6:

(9, 4429), (Start: 11 @4423 has 31 MA's), (14, 4396),

Gene: CathyBurgh_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for CathyBurgh_6:

(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's),

Gene: Charianelly_4 Start: 3734, Stop: 3609, Start Num: 13

Candidate Starts for Charianelly_4:

(Start: 13 @3734 has 27 MA's), (16, 3662),

Gene: Chelms_6 Start: 4415, Stop: 4272, Start Num: 11

Candidate Starts for Chelms_6:

(9, 4421), (Start: 11 @4415 has 31 MA's), (14, 4388), (15, 4370), (16, 4322),

Gene: CinnamonToast_7 Start: 4459, Stop: 4316, Start Num: 11

Candidate Starts for CinnamonToast_7:

(9, 4465), (Start: 11 @4459 has 31 MA's), (14, 4432), (15, 4414),

Gene: Crete_7 Start: 4639, Stop: 4523, Start Num: 14

Candidate Starts for Crete_7:

(9, 4672), (Start: 11 @4666 has 31 MA's), (14, 4639), (15, 4621),

Gene: Dakiti_6 Start: 4415, Stop: 4272, Start Num: 11

Candidate Starts for Dakiti_6:

(9, 4421), (Start: 11 @4415 has 31 MA's), (14, 4388), (15, 4370), (16, 4322),

Gene: Damp_4 Start: 3726, Stop: 3601, Start Num: 13

Candidate Starts for Damp_4:

(10, 3735), (Start: 13 @3726 has 27 MA's), (16, 3654),

Gene: Diabla_6 Start: 4440, Stop: 4303, Start Num: 13

Candidate Starts for Diabla_6:

(Start: 13 @4440 has 27 MA's), (17, 4350),

Gene: Eggsie_6 Start: 4435, Stop: 4292, Start Num: 11

Candidate Starts for Eggsie_6:

(5, 4498), (Start: 11 @4435 has 31 MA's), (17, 4339),

Gene: Ekhein_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for Ekhein_6:

(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's), (14, 4396),

Gene: Exiguo_6 Start: 4435, Stop: 4292, Start Num: 11

Candidate Starts for Exiguo_6:

(2, 4540), (4, 4519), (5, 4498), (9, 4441), (Start: 11 @4435 has 31 MA's),

Gene: FelixAlejandro_7 Start: 4621, Stop: 4478, Start Num: 11

Candidate Starts for FelixAlejandro_7:

(9, 4627), (Start: 11 @4621 has 31 MA's), (14, 4594),

Gene: Flakey_6 Start: 4424, Stop: 4281, Start Num: 11

Candidate Starts for Flakey_6:

(2, 4529), (4, 4508), (5, 4487), (9, 4430), (Start: 11 @4424 has 31 MA's),

Gene: GalacticEye_4 Start: 3723, Stop: 3598, Start Num: 13

Candidate Starts for GalacticEye_4:

(Start: 13 @3723 has 27 MA's), (16, 3651),

Gene: Gorko_6 Start: 4424, Stop: 4281, Start Num: 11

Candidate Starts for Gorko_6:

(2, 4529), (4, 4508), (5, 4487), (9, 4430), (Start: 11 @4424 has 31 MA's),

Gene: GourdThymes_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for GourdThymes_6:

(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's),

Gene: Guillaume_4 Start: 3734, Stop: 3609, Start Num: 13

Candidate Starts for Guillaume_4:

(Start: 13 @3734 has 27 MA's), (16, 3662),

Gene: Hail2Pitt_4 Start: 3712, Stop: 3593, Start Num: 13

Candidate Starts for Hail2Pitt_4:

(Start: 13 @3712 has 27 MA's),

Gene: Harambe_4 Start: 3733, Stop: 3614, Start Num: 13

Candidate Starts for Harambe_4:

(Start: 13 @3733 has 27 MA's),

Gene: Hello_4 Start: 3723, Stop: 3598, Start Num: 13

Candidate Starts for Hello_4:

(Start: 13 @3723 has 27 MA's),

Gene: Hotorobo_6 Start: 4434, Stop: 4291, Start Num: 11

Candidate Starts for Hotorobo_6:

(2, 4539), (4, 4518), (5, 4497), (9, 4440), (Start: 11 @4434 has 31 MA's), (14, 4407),

Gene: Jams_4 Start: 3746, Stop: 3621, Start Num: 13

Candidate Starts for Jams_4:

(10, 3755), (Start: 13 @3746 has 27 MA's), (16, 3674),

Gene: Jellybones_6 Start: 4458, Stop: 4315, Start Num: 11

Candidate Starts for Jellybones_6:

(9, 4464), (Start: 11 @4458 has 31 MA's), (14, 4431),

Gene: John316_6 Start: 4423, Stop: 4280, Start Num: 11

Candidate Starts for John316_6:

(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's),

Gene: Jormungandr_4 Start: 3732, Stop: 3613, Start Num: 13
Candidate Starts for Jormungandr_4:
(Start: 13 @3732 has 27 MA's),

Gene: Kaseim_4 Start: 3734, Stop: 3609, Start Num: 13
Candidate Starts for Kaseim_4:
(Start: 13 @3734 has 27 MA's), (16, 3662),

Gene: Kelzog_6 Start: 4435, Stop: 4292, Start Num: 11
Candidate Starts for Kelzog_6:
(2, 4540), (4, 4519), (5, 4498), (9, 4441), (Start: 11 @4435 has 31 MA's),

Gene: Lahirium_4 Start: 3733, Stop: 3614, Start Num: 13
Candidate Starts for Lahirium_4:
(Start: 13 @3733 has 27 MA's),

Gene: Lidong_4 Start: 3723, Stop: 3598, Start Num: 13
Candidate Starts for Lidong_4:
(Start: 13 @3723 has 27 MA's), (16, 3651),

Gene: Linetti_7 Start: 4568, Stop: 4425, Start Num: 11
Candidate Starts for Linetti_7:
(9, 4574), (Start: 11 @4568 has 31 MA's), (14, 4541), (15, 4523), (16, 4475),

Gene: Lizzo_6 Start: 4423, Stop: 4280, Start Num: 11
Candidate Starts for Lizzo_6:
(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's),

Gene: Luker_4 Start: 3712, Stop: 3593, Start Num: 13
Candidate Starts for Luker_4:
(Start: 13 @3712 has 27 MA's),

Gene: Minos_4 Start: 3726, Stop: 3601, Start Num: 13
Candidate Starts for Minos_4:
(10, 3735), (Start: 13 @3726 has 27 MA's), (16, 3654),

Gene: MrWormie_4 Start: 3712, Stop: 3587, Start Num: 13
Candidate Starts for MrWormie_4:
(Start: 13 @3712 has 27 MA's), (16, 3640),

Gene: Msay19_7 Start: 4613, Stop: 4470, Start Num: 11
Candidate Starts for Msay19_7:
(9, 4619), (Start: 11 @4613 has 31 MA's), (14, 4586),

Gene: Neoevie_4 Start: 3710, Stop: 3591, Start Num: 13
Candidate Starts for Neoevie_4:
(Start: 13 @3710 has 27 MA's),

Gene: Newt_4 Start: 3734, Stop: 3609, Start Num: 13
Candidate Starts for Newt_4:
(Start: 13 @3734 has 27 MA's), (16, 3662),

Gene: Nimi13_4 Start: 3735, Stop: 3610, Start Num: 13

Candidate Starts for Nimi13_4:
(Start: 13 @3735 has 27 MA's), (16, 3663),

Gene: PierreThree_6 Start: 4415, Stop: 4272, Start Num: 11
Candidate Starts for PierreThree_6:
(9, 4421), (Start: 11 @4415 has 31 MA's), (14, 4388), (15, 4370), (16, 4322),

Gene: PokyPuppy_6 Start: 4498, Stop: 4358, Start Num: 12
Candidate Starts for PokyPuppy_6:
(6, 4549), (8, 4510), (Start: 12 @4498 has 1 MA's), (16, 4408),

Gene: Poland_7 Start: 4589, Stop: 4446, Start Num: 11
Candidate Starts for Poland_7:
(9, 4595), (Start: 11 @4589 has 31 MA's), (14, 4562),

Gene: RemRem_6 Start: 4435, Stop: 4292, Start Num: 11
Candidate Starts for RemRem_6:
(2, 4540), (4, 4519), (5, 4498), (9, 4441), (Start: 11 @4435 has 31 MA's),

Gene: RoyalG_7 Start: 4630, Stop: 4487, Start Num: 11
Candidate Starts for RoyalG_7:
(3, 4720), (5, 4693), (7, 4660), (9, 4636), (Start: 11 @4630 has 31 MA's), (15, 4585), (17, 4534),

Gene: Sam12_6 Start: 4435, Stop: 4292, Start Num: 11
Candidate Starts for Sam12_6:
(2, 4540), (4, 4519), (5, 4498), (9, 4441), (Start: 11 @4435 has 31 MA's),

Gene: Shelley_4 Start: 3757, Stop: 3632, Start Num: 13
Candidate Starts for Shelley_4:
(Start: 13 @3757 has 27 MA's), (16, 3685),

Gene: Sombrero_6 Start: 4469, Stop: 4326, Start Num: 11
Candidate Starts for Sombrero_6:
(1, 4607), (2, 4574), (4, 4553), (5, 4532), (9, 4475), (Start: 11 @4469 has 31 MA's), (14, 4442),

Gene: Squibbles_6 Start: 4423, Stop: 4280, Start Num: 11
Candidate Starts for Squibbles_6:
(2, 4528), (4, 4507), (5, 4486), (9, 4429), (Start: 11 @4423 has 31 MA's),

Gene: SteveFrench_6 Start: 4429, Stop: 4292, Start Num: 13
Candidate Starts for SteveFrench_6:
(Start: 13 @4429 has 27 MA's), (17, 4339),

Gene: Sticker17_4 Start: 3734, Stop: 3609, Start Num: 13
Candidate Starts for Sticker17_4:
(Start: 13 @3734 has 27 MA's), (16, 3662),

Gene: Teal_4 Start: 3711, Stop: 3586, Start Num: 13
Candidate Starts for Teal_4:
(Start: 13 @3711 has 27 MA's), (16, 3639),

Gene: Woes_4 Start: 3750, Stop: 3625, Start Num: 13
Candidate Starts for Woes_4:

(10, 3759), (Start: 13 @3750 has 27 MA's), (16, 3678),

Gene: Worcestershire_6 Start: 4434, Stop: 4291, Start Num: 11

Candidate Starts for Worcestershire_6:

(2, 4539), (4, 4518), (5, 4497), (9, 4440), (Start: 11 @4434 has 31 MA's),