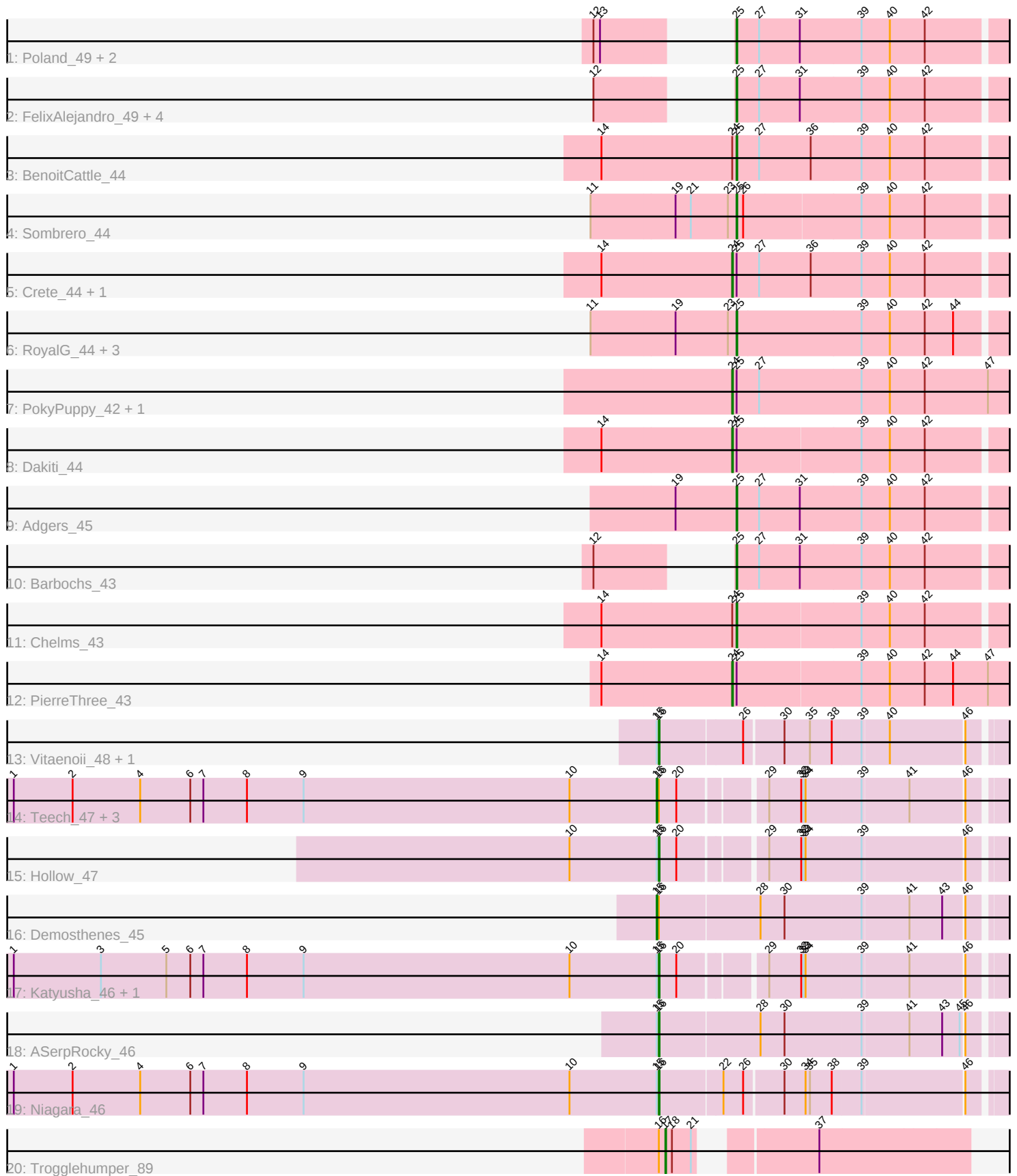


Pham 327281



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 327281 Report

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

Pham number 327281 has 36 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Poland_49, Msay19_49, Breezic_44
- Track 2 : FelixAlejandro_49, Boneham_48, Butterball_48, CinnamonToast_50, BillyBobJr_50
- Track 3 : BenoitCattle_44
- Track 4 : Sombrero_44
- Track 5 : Crete_44, BigShaq_43
- Track 6 : RoyalG_44, SteveFrench_43, BirksAndSocks_48, Diabla_47
- Track 7 : PokyPuppy_42, Linetti_44
- Track 8 : Dakiti_44
- Track 9 : Adgers_45
- Track 10 : Barbochs_43
- Track 11 : Chelms_43
- Track 12 : PierreThree_43
- Track 13 : Vitaenoi_48, Philon9_48
- Track 14 : Teech_47, Kvothe_46, Teatealatte_47, Tredge_47
- Track 15 : Hollow_47
- Track 16 : Demosthenes_45
- Track 17 : Katyusha_46, Benczkowski14_46
- Track 18 : ASerpRocky_46
- Track 19 : Niagara_46
- Track 20 : Trogglehumper_89

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

The start number called the most often in the published annotations is 25, it was called in 15 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_45, Barbochs_43, BenoitCattle_44, BillyBobJr_50, BirksAndSocks_48, Boneham_48, Breezic_44, Butterball_48, Chelms_43, CinnamonToast_50, Diabla_47, FelixAlejandro_49, Msay19_49, Poland_49, RoyalG_44, Sombrero_44, SteveFrench_43,

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

- BigShaq_43, Crete_44, Dakiti_44, Linetti_44, PierreThree_43, PokyPuppy_42,

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

- ASerpRocky_46, Benczkowski14_46, Demosthenes_45, Hollow_47, Katyusha_46, Kvothe_46, Niagara_46, Philon9_48, Teatealatte_47, Teech_47, Tredge_47, Trogglehumper_89, Vitaenoi_48,

Summary by start number:

Start 15:

- Found in 12 of 36 (33.3%) of genes in pham
- Manual Annotations of this start: 5 of 34
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Demosthenes_45 (CS4), Kvothe_46 (CS4), Teatealatte_47 (CS4), Teech_47 (CS4), Tredge_47 (CS4),

Start 16:

- Found in 13 of 36 (36.1%) of genes in pham
- Manual Annotations of this start: 7 of 34
- Called 53.8% of time when present
- Phage (with cluster) where this start called: ASerpRocky_46 (CS4), Benczkowski14_46 (CS4), Hollow_47 (CS4), Katyusha_46 (CS4), Niagara_46 (CS4), Philon9_48 (CS4), Vitaenoi_48 (CS4),

Start 17:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_89 (singleton),

Start 24:

- Found in 8 of 36 (22.2%) of genes in pham
- Manual Annotations of this start: 6 of 34
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BigShaq_43 (CS2), Crete_44 (CS2), Dakiti_44 (CS2), Linetti_44 (CS2), PierreThree_43 (CS2), PokyPuppy_42 (CS2),

Start 25:

- Found in 23 of 36 (63.9%) of genes in pham
- Manual Annotations of this start: 15 of 34
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Adgers_45 (CS2), Barbochs_43 (CS2), BenoitCattle_44 (CS2), BillyBobJr_50 (CS2), BirksAndSocks_48 (CS2), Boneham_48 (CS2), Breezic_44 (CS2), Butterball_48 (CS2), Chelms_43 (CS2), CinnamonToast_50 (CS2), Diabla_47 (CS2), FelixAlejandro_49 (CS2), Msay19_49 (CS2), Poland_49 (CS2), RoyalG_44 (CS2), Sombrero_44 (CS2), SteveFrench_43 (CS2),

Summary by clusters:

There are 3 clusters represented in this pham: CS4, singleton, CS2,

Info for manual annotations of cluster CS2:

- Start number 24 was manually annotated 6 times for cluster CS2.
- Start number 25 was manually annotated 15 times for cluster CS2.

Info for manual annotations of cluster CS4:

- Start number 15 was manually annotated 5 times for cluster CS4.
- Start number 16 was manually annotated 7 times for cluster CS4.

Gene Information:

Gene: ASerpRocky_46 Start: 47420, Stop: 46950, Start Num: 16

Candidate Starts for ASerpRocky_46:

(Start: 15 @47423 has 5 MA's), (Start: 16 @47420 has 7 MA's), (28, 47285), (30, 47252), (39, 47150), (41, 47087), (43, 47042), (45, 47018), (46, 47015),

Gene: Adgers_45 Start: 43820, Stop: 43440, Start Num: 25

Candidate Starts for Adgers_45:

(19, 43904), (Start: 25 @43820 has 15 MA's), (27, 43790), (31, 43736), (39, 43652), (40, 43613), (42, 43565),

Gene: Barbochs_43 Start: 43659, Stop: 43279, Start Num: 25

Candidate Starts for Barbochs_43:

(12, 43758), (Start: 25 @43659 has 15 MA's), (27, 43629), (31, 43575), (39, 43491), (40, 43452), (42, 43404),

Gene: Benczkowski14_46 Start: 47691, Stop: 47239, Start Num: 16

Candidate Starts for Benczkowski14_46:

(1, 48579), (3, 48459), (5, 48369), (6, 48336), (7, 48318), (8, 48258), (9, 48180), (10, 47814), (Start: 15 @47694 has 5 MA's), (Start: 16 @47691 has 7 MA's), (20, 47667), (29, 47562), (32, 47520), (33, 47517), (34, 47514), (39, 47439), (41, 47376), (46, 47304),

Gene: BenoitCattle_44 Start: 43764, Stop: 43384, Start Num: 25

Candidate Starts for BenoitCattle_44:

(14, 43947), (Start: 24 @43770 has 6 MA's), (Start: 25 @43764 has 15 MA's), (27, 43734), (36, 43665), (39, 43596), (40, 43557), (42, 43509),

Gene: BigShaq_43 Start: 43775, Stop: 43389, Start Num: 24

Candidate Starts for BigShaq_43:

(14, 43952), (Start: 24 @43775 has 6 MA's), (Start: 25 @43769 has 15 MA's), (27, 43739), (36, 43670), (39, 43601), (40, 43562), (42, 43514),

Gene: BillyBobJr_50 Start: 45737, Stop: 45357, Start Num: 25

Candidate Starts for BillyBobJr_50:

(12, 45836), (Start: 25 @45737 has 15 MA's), (27, 45707), (31, 45653), (39, 45569), (40, 45530), (42, 45482),

Gene: BirksAndSocks_48 Start: 45684, Stop: 45304, Start Num: 25

Candidate Starts for BirksAndSocks_48:

(11, 45882), (19, 45768), (23, 45696), (Start: 25 @45684 has 15 MA's), (39, 45516), (40, 45477), (42, 45429), (44, 45390),

Gene: Boneham_48 Start: 45683, Stop: 45303, Start Num: 25

Candidate Starts for Boneham_48:

(12, 45782), (Start: 25 @45683 has 15 MA's), (27, 45653), (31, 45599), (39, 45515), (40, 45476), (42, 45428),

Gene: Breezic_44 Start: 43672, Stop: 43292, Start Num: 25

Candidate Starts for Breezic_44:

(12, 43771), (13, 43762), (Start: 25 @43672 has 15 MA's), (27, 43642), (31, 43588), (39, 43504), (40, 43465), (42, 43417),

Gene: Butterball_48 Start: 45683, Stop: 45303, Start Num: 25

Candidate Starts for Butterball_48:

(12, 45782), (Start: 25 @45683 has 15 MA's), (27, 45653), (31, 45599), (39, 45515), (40, 45476), (42, 45428),

Gene: Chelms_43 Start: 43769, Stop: 43392, Start Num: 25

Candidate Starts for Chelms_43:

(14, 43952), (Start: 24 @43775 has 6 MA's), (Start: 25 @43769 has 15 MA's), (39, 43604), (40, 43565), (42, 43517),

Gene: CinnamonToast_50 Start: 45737, Stop: 45357, Start Num: 25

Candidate Starts for CinnamonToast_50:

(12, 45836), (Start: 25 @45737 has 15 MA's), (27, 45707), (31, 45653), (39, 45569), (40, 45530), (42, 45482),

Gene: Crete_44 Start: 44041, Stop: 43655, Start Num: 24

Candidate Starts for Crete_44:

(14, 44218), (Start: 24 @44041 has 6 MA's), (Start: 25 @44035 has 15 MA's), (27, 44005), (36, 43936), (39, 43867), (40, 43828), (42, 43780),

Gene: Dakiti_44 Start: 44643, Stop: 44260, Start Num: 24

Candidate Starts for Dakiti_44:

(14, 44820), (Start: 24 @44643 has 6 MA's), (Start: 25 @44637 has 15 MA's), (39, 44472), (40, 44433), (42, 44385),

Gene: Demosthenes_45 Start: 47399, Stop: 46926, Start Num: 15

Candidate Starts for Demosthenes_45:

(Start: 15 @47399 has 5 MA's), (Start: 16 @47396 has 7 MA's), (28, 47261), (30, 47228), (39, 47126), (41, 47063), (43, 47018), (46, 46991),

Gene: Diabla_47 Start: 45518, Stop: 45138, Start Num: 25

Candidate Starts for Diabla_47:

(11, 45716), (19, 45602), (23, 45530), (Start: 25 @45518 has 15 MA's), (39, 45350), (40, 45311), (42, 45263), (44, 45224),

Gene: FelixAlejandro_49 Start: 45881, Stop: 45501, Start Num: 25

Candidate Starts for FelixAlejandro_49:

(12, 45980), (Start: 25 @45881 has 15 MA's), (27, 45851), (31, 45797), (39, 45713), (40, 45674), (42, 45626),

Gene: Hollow_47 Start: 48027, Stop: 47575, Start Num: 16

Candidate Starts for Hollow_47:

(10, 48150), (Start: 15 @48030 has 5 MA's), (Start: 16 @48027 has 7 MA's), (20, 48003), (29, 47898), (32, 47856), (33, 47853), (34, 47850), (39, 47775), (46, 47640),

Gene: Katyusha_46 Start: 47691, Stop: 47239, Start Num: 16

Candidate Starts for Katyusha_46:

(1, 48579), (3, 48459), (5, 48369), (6, 48336), (7, 48318), (8, 48258), (9, 48180), (10, 47814), (Start: 15 @47694 has 5 MA's), (Start: 16 @47691 has 7 MA's), (20, 47667), (29, 47562), (32, 47520), (33, 47517), (34, 47514), (39, 47439), (41, 47376), (46, 47304),

Gene: Kvothe_46 Start: 47593, Stop: 47138, Start Num: 15

Candidate Starts for Kvothe_46:

(1, 48478), (2, 48397), (4, 48304), (6, 48235), (7, 48217), (8, 48157), (9, 48079), (10, 47713), (Start: 15 @47593 has 5 MA's), (Start: 16 @47590 has 7 MA's), (20, 47566), (29, 47461), (32, 47419), (33, 47416), (34, 47413), (39, 47338), (41, 47275), (46, 47203),

Gene: Linetti_44 Start: 44784, Stop: 44386, Start Num: 24

Candidate Starts for Linetti_44:

(Start: 24 @44784 has 6 MA's), (Start: 25 @44778 has 15 MA's), (27, 44748), (39, 44610), (40, 44571), (42, 44523), (47, 44436),

Gene: Msay19_49 Start: 45872, Stop: 45492, Start Num: 25

Candidate Starts for Msay19_49:

(12, 45971), (13, 45962), (Start: 25 @45872 has 15 MA's), (27, 45842), (31, 45788), (39, 45704), (40, 45665), (42, 45617),

Gene: Niagara_46 Start: 47681, Stop: 47217, Start Num: 16

Candidate Starts for Niagara_46:

(1, 48569), (2, 48488), (4, 48395), (6, 48326), (7, 48308), (8, 48248), (9, 48170), (10, 47804), (Start: 15 @47684 has 5 MA's), (Start: 16 @47681 has 7 MA's), (22, 47597), (26, 47570), (30, 47519), (34, 47492), (35, 47486), (38, 47456), (39, 47417), (46, 47282),

Gene: Philon9_48 Start: 48712, Stop: 48248, Start Num: 16

Candidate Starts for Philon9_48:

(Start: 15 @48715 has 5 MA's), (Start: 16 @48712 has 7 MA's), (26, 48601), (30, 48550), (35, 48517), (38, 48487), (39, 48448), (40, 48412), (46, 48313),

Gene: PierreThree_43 Start: 44652, Stop: 44257, Start Num: 24

Candidate Starts for PierreThree_43:

(14, 44829), (Start: 24 @44652 has 6 MA's), (Start: 25 @44646 has 15 MA's), (39, 44481), (40, 44442), (42, 44394), (44, 44355), (47, 44307),

Gene: PokyPuppy_42 Start: 44595, Stop: 44197, Start Num: 24

Candidate Starts for PokyPuppy_42:

(Start: 24 @44595 has 6 MA's), (Start: 25 @44589 has 15 MA's), (27, 44559), (39, 44421), (40, 44382), (42, 44334), (47, 44247),

Gene: Poland_49 Start: 45851, Stop: 45471, Start Num: 25

Candidate Starts for Poland_49:

(12, 45950), (13, 45941), (Start: 25 @45851 has 15 MA's), (27, 45821), (31, 45767), (39, 45683), (40, 45644), (42, 45596),

Gene: RoyalG_44 Start: 44130, Stop: 43750, Start Num: 25

Candidate Starts for RoyalG_44:

(11, 44328), (19, 44214), (23, 44142), (Start: 25 @44130 has 15 MA's), (39, 43962), (40, 43923), (42, 43875), (44, 43836),

Gene: Sombrero_44 Start: 43665, Stop: 43288, Start Num: 25

Candidate Starts for Sombrero_44:

(11, 43863), (19, 43749), (21, 43728), (23, 43677), (Start: 25 @43665 has 15 MA's), (26, 43656), (39, 43500), (40, 43461), (42, 43413),

Gene: SteveFrench_43 Start: 44370, Stop: 43990, Start Num: 25

Candidate Starts for SteveFrench_43:

(11, 44568), (19, 44454), (23, 44382), (Start: 25 @44370 has 15 MA's), (39, 44202), (40, 44163), (42, 44115), (44, 44076),

Gene: Teatealatte_47 Start: 47596, Stop: 47141, Start Num: 15

Candidate Starts for Teatealatte_47:

(1, 48481), (2, 48400), (4, 48307), (6, 48238), (7, 48220), (8, 48160), (9, 48082), (10, 47716), (Start: 15 @47596 has 5 MA's), (Start: 16 @47593 has 7 MA's), (20, 47569), (29, 47464), (32, 47422), (33, 47419), (34, 47416), (39, 47341), (41, 47278), (46, 47206),

Gene: Teech_47 Start: 47397, Stop: 46942, Start Num: 15

Candidate Starts for Teech_47:

(1, 48282), (2, 48201), (4, 48108), (6, 48039), (7, 48021), (8, 47961), (9, 47883), (10, 47517), (Start: 15 @47397 has 5 MA's), (Start: 16 @47394 has 7 MA's), (20, 47370), (29, 47265), (32, 47223), (33, 47220), (34, 47217), (39, 47142), (41, 47079), (46, 47007),

Gene: Tredge_47 Start: 47596, Stop: 47141, Start Num: 15

Candidate Starts for Tredge_47:

(1, 48481), (2, 48400), (4, 48307), (6, 48238), (7, 48220), (8, 48160), (9, 48082), (10, 47716), (Start: 15 @47596 has 5 MA's), (Start: 16 @47593 has 7 MA's), (20, 47569), (29, 47464), (32, 47422), (33, 47419), (34, 47416), (39, 47341), (41, 47278), (46, 47206),

Gene: Trogglehumper_89 Start: 66847, Stop: 66485, Start Num: 17

Candidate Starts for Trogglehumper_89:

(Start: 16 @66856 has 7 MA's), (Start: 17 @66847 has 1 MA's), (18, 66838), (21, 66814), (37, 66688),

Gene: Vitaenoi_48 Start: 48711, Stop: 48247, Start Num: 16

Candidate Starts for Vitaenoi_48:

(Start: 15 @48714 has 5 MA's), (Start: 16 @48711 has 7 MA's), (26, 48600), (30, 48549), (35, 48516), (38, 48486), (39, 48447), (40, 48411), (46, 48312),