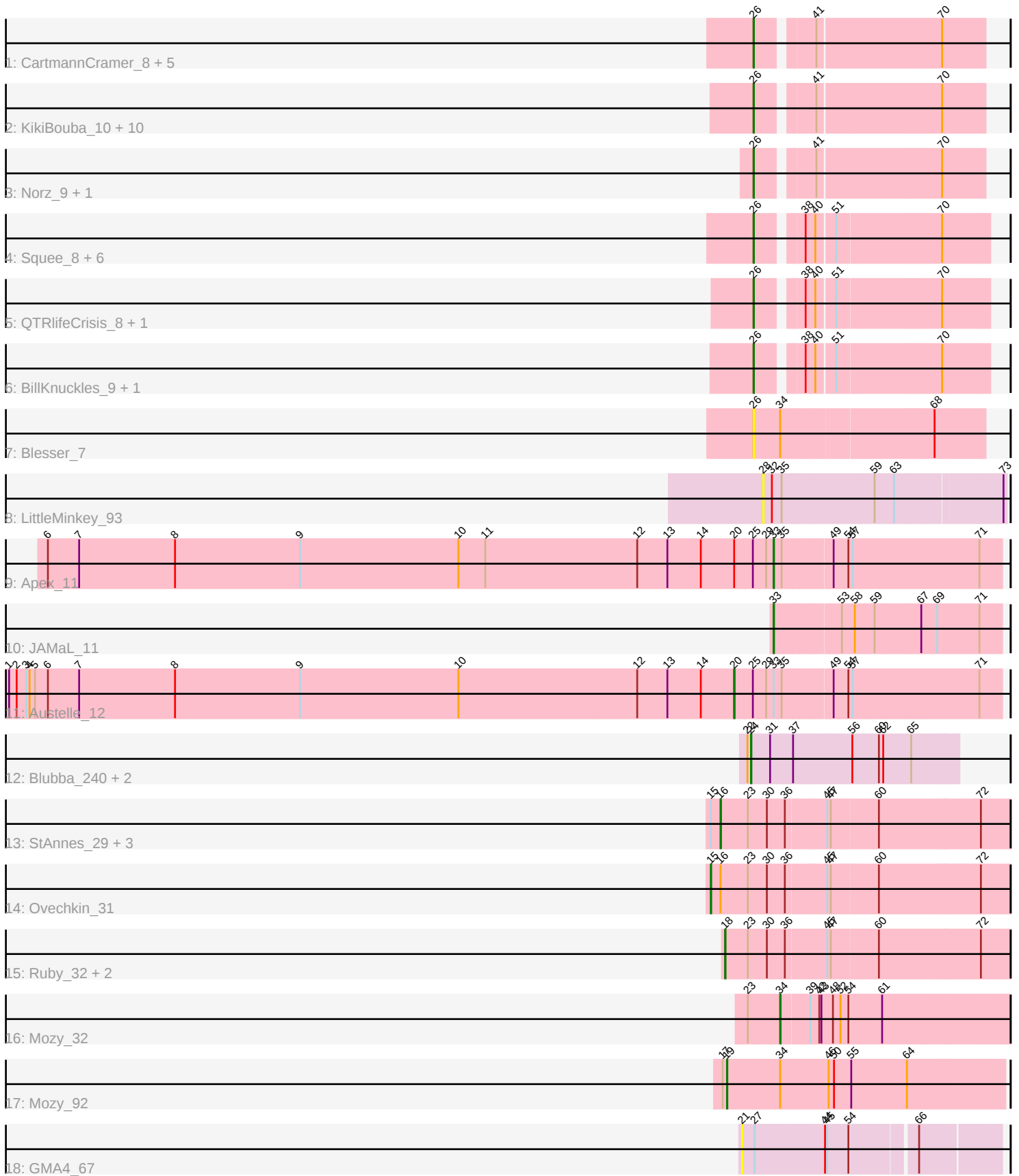




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 330961 Report

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

Pham number 330961 has 49 members, 8 are drafts.

Phages represented in each track:

- Track 1 : CartmannCramer_8, PowerRanger_8, TheloniousMonk_9, LilBib_8, Papez_9, Kenmech_10
- Track 2 : KikiBouba_10, CatBus_9, Hermia_10, GroundGoblin_9, Buttons_9, DirtDevil_9, Aldrich_9, SpikeBT_9, Noxious_10, Edtherson_9, Treddle_9
- Track 3 : Norz_9, Monet_9
- Track 4 : Squee_8, Gwendoluna_9, KBG_9, Graduation_10, Solon_8, Nerujay_9, Whitspit_9
- Track 5 : QTRlifeCrisis_8, Zeuska_8
- Track 6 : BillKnuckles_9, DD5_9
- Track 7 : Blesser_7
- Track 8 : LittleMinkey_93
- Track 9 : Apex_11
- Track 10 : JAMaL_11
- Track 11 : Austelle_12
- Track 12 : Blubba_240, Colt_243, Cane17_242
- Track 13 : StAnnes_29, Soul22_35, Hamulus_31, Kingsley_29
- Track 14 : Ovechkin_31
- Track 15 : Ruby_32, MisterCuddles_32, Girr_32
- Track 16 : Mozy_32
- Track 17 : Mozy_92
- Track 18 : GMA4_67

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

The start number called the most often in the published annotations is 26, it was called in 25 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aldrich_9, BillKnuckles_9, Blesser_7, Buttons_9, CartmannCramer_8, CatBus_9, DD5_9, DirtDevil_9, Edtherson_9, Graduation_10, GroundGoblin_9, Gwendoluna_9, Hermia_10, KBG_9, Kenmech_10, KikiBouba_10, LilBib_8, Monet_9, Nerujay_9, Norz_9, Noxious_10, Papez_9, PowerRanger_8, QTRlifeCrisis_8, Solon_8, SpikeBT_9, Squee_8, TheloniousMonk_9, Treddle_9, Whitspit_9, Zeuska_8,

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

-

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

- Apex_11, Austelle_12, Blubba_240, Cane17_242, Colt_243, GMA4_67, Girr_32, Hamulus_31, JAMaL_11, Kingsley_29, LittleMinkey_93, MisterCuddles_32, Mozy_32, Mozy_92, Ovechkin_31, Ruby_32, Soul22_35, StAnnes_29,

Summary by start number:

Start 15:

- Found in 5 of 49 (10.2%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Ovechkin_31 (F1),

Start 16:

- Found in 5 of 49 (10.2%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Hamulus_31 (F1), Kingsley_29 (F1), Soul22_35 (F2), StAnnes_29 (F1),

Start 18:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Girr_32 (F1), MisterCuddles_32 (F1), Ruby_32 (F1),

Start 19:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mozy_92 (F1),

Start 20:

- Found in 2 of 49 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Austelle_12 (B4),

Start 21:

- Found in 1 of 49 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_67 (singleton),

Start 24:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Blubba_240 (C1), Cane17_242 (C1), Colt_243 (C1),

Start 26:

- Found in 31 of 49 (63.3%) of genes in pham
- Manual Annotations of this start: 25 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aldrich_9 (A1), BillKnuckles_9 (A1), Blesser_7 (A1), Buttons_9 (A1), CartmannCramer_8 (A1), CatBus_9 (A1), DD5_9 (A1), DirtDevil_9 (A1), Edtherson_9 (A1), Graduation_10 (A1), GroundGoblin_9 (A1), Gwendoluna_9 (A1), Hermia_10 (A1), KBG_9 (A1), Kenmech_10 (A1), KikiBouba_10 (A1), LilBib_8 (A1), Monet_9 (A1), Nerujay_9 (A1), Norz_9 (A1), Noxious_10 (A1), Papez_9 (A1), PowerRanger_8 (A1), QTRlifeCrisis_8 (A1), Solon_8 (A1), SpikeBT_9 (A1), Squee_8 (A1), TheloniousMonk_9 (A1), Treddle_9 (A1), Whitspit_9 (A1), Zeuska_8 (A1),

Start 28:

- Found in 1 of 49 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleMinkey_93 (B13),

Start 33:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Apex_11 (B4), JAMaL_11 (B4),

Start 34:

- Found in 3 of 49 (6.1%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Mozy_32 (F1),

Summary by clusters:

There are 7 clusters represented in this pham: F1, singleton, F2, A1, B13, B4, C1,

Info for manual annotations of cluster A1:

- Start number 26 was manually annotated 25 times for cluster A1.

Info for manual annotations of cluster B4:

- Start number 20 was manually annotated 1 time for cluster B4.
- Start number 33 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster C1:

- Start number 24 was manually annotated 3 times for cluster C1.

Info for manual annotations of cluster F1:

- Start number 15 was manually annotated 1 time for cluster F1.
- Start number 16 was manually annotated 3 times for cluster F1.
- Start number 18 was manually annotated 3 times for cluster F1.

- Start number 19 was manually annotated 1 time for cluster F1.
- Start number 34 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 16 was manually annotated 1 time for cluster F2.

Gene Information:

Gene: Aldrich_9 Start: 4591, Stop: 5169, Start Num: 26

Candidate Starts for Aldrich_9:

(Start: 26 @4591 has 25 MA's), (41, 4717), (70, 5050),

Gene: Apex_11 Start: 11515, Stop: 10910, Start Num: 33

Candidate Starts for Apex_11:

(6, 13534), (7, 13447), (8, 13180), (9, 12832), (10, 12391), (11, 12316), (12, 11893), (13, 11809), (14, 11716), (Start: 20 @11623 has 1 MA's), (25, 11572), (29, 11536), (Start: 33 @11515 has 2 MA's), (35, 11494), (49, 11362), (54, 11323), (57, 11311), (71, 10972),

Gene: Austelle_12 Start: 12079, Stop: 11366, Start Num: 20

Candidate Starts for Austelle_12:

(1, 14095), (2, 14074), (3, 14047), (4, 14038), (5, 14023), (6, 13987), (7, 13900), (8, 13633), (9, 13285), (10, 12844), (12, 12349), (13, 12265), (14, 12172), (Start: 20 @12079 has 1 MA's), (25, 12028), (29, 11992), (Start: 33 @11971 has 2 MA's), (35, 11950), (49, 11818), (54, 11779), (57, 11767), (71, 11428),

Gene: BillKnuckles_9 Start: 4709, Stop: 5290, Start Num: 26

Candidate Starts for BillKnuckles_9:

(Start: 26 @4709 has 25 MA's), (38, 4811), (40, 4832), (51, 4880), (70, 5159),

Gene: Blesser_7 Start: 4048, Stop: 4662, Start Num: 26

Candidate Starts for Blesser_7:

(Start: 26 @4048 has 25 MA's), (Start: 34 @4117 has 1 MA's), (68, 4522),

Gene: Blubba_240 Start: 148292, Stop: 148846, Start Num: 24

Candidate Starts for Blubba_240:

(22, 148286), (Start: 24 @148292 has 3 MA's), (31, 148340), (37, 148403), (56, 148559), (60, 148631), (62, 148643), (65, 148721),

Gene: Buttons_9 Start: 4220, Stop: 4798, Start Num: 26

Candidate Starts for Buttons_9:

(Start: 26 @4220 has 25 MA's), (41, 4346), (70, 4679),

Gene: Cane17_242 Start: 148701, Stop: 149255, Start Num: 24

Candidate Starts for Cane17_242:

(22, 148695), (Start: 24 @148701 has 3 MA's), (31, 148749), (37, 148812), (56, 148968), (60, 149040), (62, 149052), (65, 149130),

Gene: CartmannCramer_8 Start: 4548, Stop: 5126, Start Num: 26

Candidate Starts for CartmannCramer_8:

(Start: 26 @4548 has 25 MA's), (41, 4674), (70, 5007),

Gene: CatBus_9 Start: 4783, Stop: 5361, Start Num: 26

Candidate Starts for CatBus_9:

(Start: 26 @4783 has 25 MA's), (41, 4909), (70, 5242),

Gene: Colt_243 Start: 147893, Stop: 148447, Start Num: 24

Candidate Starts for Colt_243:

(22, 147887), (Start: 24 @147893 has 3 MA's), (31, 147941), (37, 148004), (56, 148160), (60, 148232), (62, 148244), (65, 148322),

Gene: DD5_9 Start: 4751, Stop: 5332, Start Num: 26

Candidate Starts for DD5_9:

(Start: 26 @4751 has 25 MA's), (38, 4853), (40, 4874), (51, 4922), (70, 5201),

Gene: DirtDevil_9 Start: 4591, Stop: 5169, Start Num: 26

Candidate Starts for DirtDevil_9:

(Start: 26 @4591 has 25 MA's), (41, 4717), (70, 5050),

Gene: Edtherson_9 Start: 4530, Stop: 5108, Start Num: 26

Candidate Starts for Edtherson_9:

(Start: 26 @4530 has 25 MA's), (41, 4656), (70, 4989),

Gene: GMA4_67 Start: 43840, Stop: 44490, Start Num: 21

Candidate Starts for GMA4_67:

(21, 43840), (27, 43870), (44, 44059), (45, 44065), (54, 44122), (66, 44284),

Gene: Girr_32 Start: 27712, Stop: 28464, Start Num: 18

Candidate Starts for Girr_32:

(Start: 18 @27712 has 3 MA's), (23, 27775), (30, 27823), (36, 27871), (45, 27982), (47, 27991), (60, 28117), (72, 28384),

Gene: Graduation_10 Start: 4816, Stop: 5397, Start Num: 26

Candidate Starts for Graduation_10:

(Start: 26 @4816 has 25 MA's), (38, 4918), (40, 4939), (51, 4987), (70, 5266),

Gene: GroundGoblin_9 Start: 4591, Stop: 5169, Start Num: 26

Candidate Starts for GroundGoblin_9:

(Start: 26 @4591 has 25 MA's), (41, 4717), (70, 5050),

Gene: Gwendoluna_9 Start: 4700, Stop: 5281, Start Num: 26

Candidate Starts for Gwendoluna_9:

(Start: 26 @4700 has 25 MA's), (38, 4802), (40, 4823), (51, 4871), (70, 5150),

Gene: Hamulus_31 Start: 27654, Stop: 28418, Start Num: 16

Candidate Starts for Hamulus_31:

(Start: 15 @27627 has 1 MA's), (Start: 16 @27654 has 4 MA's), (23, 27729), (30, 27777), (36, 27825), (45, 27936), (47, 27945), (60, 28071), (72, 28338),

Gene: Hermia_10 Start: 4783, Stop: 5361, Start Num: 26

Candidate Starts for Hermia_10:

(Start: 26 @4783 has 25 MA's), (41, 4909), (70, 5242),

Gene: JAMaL_11 Start: 11491, Stop: 10886, Start Num: 33

Candidate Starts for JAMaL_11:

(Start: 33 @11491 has 2 MA's), (53, 11317), (58, 11281), (59, 11227), (67, 11107), (69, 11065), (71, 10948),

Gene: KBG_9 Start: 4959, Stop: 5540, Start Num: 26

Candidate Starts for KBG_9:

(Start: 26 @4959 has 25 MA's), (38, 5061), (40, 5082), (51, 5130), (70, 5409),

Gene: Kenmech_10 Start: 4617, Stop: 5195, Start Num: 26

Candidate Starts for Kenmech_10:

(Start: 26 @4617 has 25 MA's), (41, 4743), (70, 5076),

Gene: KikiBouba_10 Start: 4592, Stop: 5170, Start Num: 26

Candidate Starts for KikiBouba_10:

(Start: 26 @4592 has 25 MA's), (41, 4718), (70, 5051),

Gene: Kingsley_29 Start: 26483, Stop: 27247, Start Num: 16

Candidate Starts for Kingsley_29:

(Start: 15 @26456 has 1 MA's), (Start: 16 @26483 has 4 MA's), (23, 26558), (30, 26606), (36, 26654), (45, 26765), (47, 26774), (60, 26900), (72, 27167),

Gene: LilBib_8 Start: 4381, Stop: 4959, Start Num: 26

Candidate Starts for LilBib_8:

(Start: 26 @4381 has 25 MA's), (41, 4507), (70, 4840),

Gene: LittleMinkey_93 Start: 65667, Stop: 65026, Start Num: 28

Candidate Starts for LittleMinkey_93:

(28, 65667), (32, 65643), (35, 65616), (59, 65367), (63, 65316), (73, 65034),

Gene: MisterCuddles_32 Start: 27712, Stop: 28464, Start Num: 18

Candidate Starts for MisterCuddles_32:

(Start: 18 @27712 has 3 MA's), (23, 27775), (30, 27823), (36, 27871), (45, 27982), (47, 27991), (60, 28117), (72, 28384),

Gene: Monet_9 Start: 4498, Stop: 5076, Start Num: 26

Candidate Starts for Monet_9:

(Start: 26 @4498 has 25 MA's), (41, 4624), (70, 4957),

Gene: Mozy_32 Start: 27800, Stop: 28405, Start Num: 34

Candidate Starts for Mozy_32:

(23, 27716), (Start: 34 @27800 has 1 MA's), (39, 27872), (42, 27896), (43, 27902), (48, 27932), (52, 27953), (54, 27974), (61, 28061),

Gene: Mozy_92 Start: 49652, Stop: 50401, Start Num: 19

Candidate Starts for Mozy_92:

(17, 49640), (Start: 19 @49652 has 1 MA's), (Start: 34 @49799 has 1 MA's), (46, 49931), (50, 49946), (55, 49991), (64, 50144),

Gene: Nerujay_9 Start: 4453, Stop: 5034, Start Num: 26

Candidate Starts for Nerujay_9:

(Start: 26 @4453 has 25 MA's), (38, 4555), (40, 4576), (51, 4624), (70, 4903),

Gene: Norz_9 Start: 4534, Stop: 5112, Start Num: 26

Candidate Starts for Norz_9:

(Start: 26 @4534 has 25 MA's), (41, 4660), (70, 4993),

Gene: Noxious_10 Start: 4783, Stop: 5361, Start Num: 26

Candidate Starts for Noxious_10:

(Start: 26 @4783 has 25 MA's), (41, 4909), (70, 5242),

Gene: Ovechkin_31 Start: 27645, Stop: 28436, Start Num: 15

Candidate Starts for Ovechkin_31:

(Start: 15 @27645 has 1 MA's), (Start: 16 @27672 has 4 MA's), (23, 27747), (30, 27795), (36, 27843), (45, 27954), (47, 27963), (60, 28089), (72, 28356),

Gene: Papez_9 Start: 5271, Stop: 5849, Start Num: 26

Candidate Starts for Papez_9:

(Start: 26 @5271 has 25 MA's), (41, 5397), (70, 5730),

Gene: PowerRanger_8 Start: 4332, Stop: 4910, Start Num: 26

Candidate Starts for PowerRanger_8:

(Start: 26 @4332 has 25 MA's), (41, 4458), (70, 4791),

Gene: QTRLifeCrisis_8 Start: 4494, Stop: 5075, Start Num: 26

Candidate Starts for QTRLifeCrisis_8:

(Start: 26 @4494 has 25 MA's), (38, 4596), (40, 4617), (51, 4665), (70, 4944),

Gene: Ruby_32 Start: 27712, Stop: 28464, Start Num: 18

Candidate Starts for Ruby_32:

(Start: 18 @27712 has 3 MA's), (23, 27775), (30, 27823), (36, 27871), (45, 27982), (47, 27991), (60, 28117), (72, 28384),

Gene: Solon_8 Start: 4653, Stop: 5234, Start Num: 26

Candidate Starts for Solon_8:

(Start: 26 @4653 has 25 MA's), (38, 4755), (40, 4776), (51, 4824), (70, 5103),

Gene: Soul22_35 Start: 27040, Stop: 27804, Start Num: 16

Candidate Starts for Soul22_35:

(Start: 15 @27013 has 1 MA's), (Start: 16 @27040 has 4 MA's), (23, 27115), (30, 27163), (36, 27211), (45, 27322), (47, 27331), (60, 27457), (72, 27724),

Gene: SpikeBT_9 Start: 4433, Stop: 5011, Start Num: 26

Candidate Starts for SpikeBT_9:

(Start: 26 @4433 has 25 MA's), (41, 4559), (70, 4892),

Gene: Squee_8 Start: 4160, Stop: 4741, Start Num: 26

Candidate Starts for Squee_8:

(Start: 26 @4160 has 25 MA's), (38, 4262), (40, 4283), (51, 4331), (70, 4610),

Gene: StAnnes_29 Start: 27239, Stop: 28003, Start Num: 16

Candidate Starts for StAnnes_29:

(Start: 15 @27212 has 1 MA's), (Start: 16 @27239 has 4 MA's), (23, 27314), (30, 27362), (36, 27410), (45, 27521), (47, 27530), (60, 27656), (72, 27923),

Gene: TheloniousMonk_9 Start: 4484, Stop: 5062, Start Num: 26

Candidate Starts for TheloniousMonk_9:

(Start: 26 @4484 has 25 MA's), (41, 4610), (70, 4943),

Gene: Treddle_9 Start: 4499, Stop: 5077, Start Num: 26

Candidate Starts for Treddle_9:

(Start: 26 @4499 has 25 MA's), (41, 4625), (70, 4958),

Gene: Whitspit_9 Start: 4658, Stop: 5239, Start Num: 26

Candidate Starts for Whitspit_9:

(Start: 26 @4658 has 25 MA's), (38, 4760), (40, 4781), (51, 4829), (70, 5108),

Gene: Zeuska_8 Start: 4378, Stop: 4959, Start Num: 26

Candidate Starts for Zeuska_8:

(Start: 26 @4378 has 25 MA's), (38, 4480), (40, 4501), (51, 4549), (70, 4828),