Table 1. Transitional YSO Candidate IRAS Sources

IRAS ID	RA (J2000) DEC	g'	r'	i'	g	r	V	R	I	J	H	K	ID	notes
00294+6510	00 32 18.5 +65 27 19	•	•	•	•	•	×	×	×	•	•	•	1	1 v. red star, bright neighbour, refl. neb.
00353+6249	00 38 17.1 +63 06 01	•	•	•	•	•	×	×	×	•	•	•	1	1 v. red star, refl. neb.
00544+5609	00 57 26.1 +56 25 16	×	×	×	•	•	×	×	×	•	×	•	5	reddened cluster
02048+5957	02 08 27.0 +60 11 45	×	×	×	•	•	×	×	×	•	×	•	5	reddened cluster
02259+7246	02 30 43.8 +72 59 39	•	×	•	•	•	×	×	×	•	•	•	2	*in L1340*, faint red star, refl. neb.
03260+3111	03 29 10.4 +31 21 58	•	×	•	•	•	×	×	×	•	•	•	1	*in NGC 1333*, v. red star, lots of refl. neb.
03383+4343	03 41 44.8 +43 52 54	•	•	•	•	•	×	×	×	•	•	•	1	red star, some neb.
03412+6759	03 46 08.7 +68 09 05	•	×	•	•	•	×	×	×	•	•	•	6	*in IC 342*, H II region in spiral galaxy arm
03507+3801	03 54 05.5 +38 10 39	•	×	•	•	•	×	×	×	•	•	•	1	*by refl. neb. PP 11*, red star
04020+5017	04 05 47.0 +50 25 07	•	•	•	×	×	×	×	×	•	•	•	2	several (2-3) m. red stars, no obv. neb.
04038+5437	04 07 50.1 +54 45 33	•	•	•	×	×	×	×	×	•	•	•	2	several (2-3) m. red stars, no obv. neb.
04104+5029	04 14 14.9 +50 37 25	•	•	•	•	•	×	×	×	•	×	•	5	m. red group of stars
04115+5027	04 15 22.2 +50 34 37	•	•	•	•	•	×	×	×	•	×	•	1	v. red star, several m. red stars
04278+2435	04 30 52.7 +24 41 49	•	×	•	×	×	×	×	×	•	×	•	2	**ZZ Tau YSO**, by mol. cl. OMK96 30, 1 m. red star
04287+1807	04 31 38.8 +18 13 56	•	•	•	•	•	×	×	×	•	×	•	3	**HL Tau YSO**, *in L1551*, 2 v. red stars, emis. + dark neb.
04362+4913	04 40 02.5 +49 18 52	•	•	•	•	•	×	×	×	•	×	•	6	**ZOAG 156.16+01.78**, highly extinguished galaxy
04553−6921	04 55 05.3 −69 16 55	×	×	×	×	×	•	•	•	×	×	×	1	*in LMC*, some neb., busy field
05017+2639	05 04 50.6 +26 43 18	•	×	•	×	×	×	×	×	•	×	•	4	**HD 32509**, bright star, some faint neb. HAeBe?
05044−0325	05 06 55.7 −03 21 12	•	×	•	×	×	•	•	•	•	×	•	3	**NSV 1832**, *by L1616 in NGC 1788*, several stars in neb.
05111+3244	05 14 24.7 +32 47 57	•	×	•	•	•	×	×	×	•	×	•	3	**HD 241699**, 2 v. red stars, other m. red stars, HAeBe?
05177+3636	05 21 09.3 +36 39 34	•	×	•	×	×	×	×	×	•	×	•	3	2 red stars + neb.
05198+3325	05 23 08.3 +33 28 36	•	•	•	•	•	×	×	×	•	×	•	3	**CPM 16 YSO**,*in NGC 1893, by S236*, red stars, bright emis. neb
05223+1908	05 25 16.3 +19 10 45	•	×	•	×	×	×	×	×	•	×	•	2	1 red star, some neb.
05235+4033	05 27 03.9 +40 35 40	•	•	•	•	•	×	×	×	•	×	•	5	*in S225*, some neb.
05293+1701	05 32 14.2 +17 03 25	•	×	•	×	×	×	×	×	•	×	•	4	**HD 36408**, pair of bright stars, highly sat.
05318+2749	05 34 56.8 +27 50 58	•	×	•	×	×	×	×	×	•	×	×	3	pos. dark neb., 2 v. red stars, 1 m. red, some neb.
05327+3404	05 36 05.4 +34 06 11	•	×	•	×	×	×	×	×	•	×	•	1	**Holoea!**, *in M36, NGC 1960*, v. red star + refl. neb.
05341−0610	05 36 36.0 −06 08 24	•	×	•	×	×	•	•	•	•	×	•	7	Nothing obvious
05343+3605	05 37 41.8 +36 07 20	•	•	•	•	•	×	×	×	•	×	•	2	*by S233, S231*, several m. red stars, 1 v. red + neb.
05364−0722	05 38 51.2 −07 21 05	•	×	•	×	×	•	•	•	•	×	•	3	**Haro 4-254 YSO**, *in L1641*, 2-3 red stars, dark + emis neb
05373+2349	05 40 24.5 +23 50 53	•	×	•	×	×	×	×	×	•	×	•	1	**CPM 19 YSO**,*in KOY98 81* 1 v. red star
05437+2502	05 46 51.6 +25 03 44	•	•	•	•	•	×	×	×	•	×	•	6	**CAP 0543+25**
05440+2059	05 47 02.2 +21 00 10	•	×	•	×	×	×	×	×	•	×	•	5	*in CB88 34* several red stars in group
05482+0306	05 50 53.3 +03 07 41	•	×	•	•	•	•	•	•	•	×	•	3	**RNO 57 (HH Obj.)**,*in L1617*, 1 v. red, 2 m. red, much neb.
05555−1405	05 57 49.6 −14 05 41	×	×	×	•	•	•	•	•	•	×	•	5	*in vdB 64*, several red stars in group?
06005+3010	06 03 43.5 +30 10 16	•	×	•	×	×	×	×	×	•	×	•	5	*by S241, in LBN 825*, several red stars, 1 v. red
06017+3006	06 04 57.1 +30 06 40	•	•	•	•	•	×	×	×	•	×	•	5	*by S241*, some red stars
06040+2958	06 07 16.1 +29 58 00	•	•	•	•	•	×	×	×	•	×	•	5	**CPM P3 YSO, P85b 4** one red clump, faint red stars
06041+3012	06 07 23.8 +30 11 44	•	•	•	×	×	×	×	×	•	×	•	2	**MWC 790 HAeBe?** 1 v. red star, is cluster?
06047−1117	06 07 08.3 −11 17 51	•	×	•	×	×	•	•	•	•	×	•	1	a v. red star + neb. (emis?)
06059−0935	06 08 20.7 −09 36 03	•	×	•	×	×	•	•	•	•	×	•	3	2-3 red stars, neb. multi-HIRAS source
06134+2348	06 16 32.8 +23 47 22	•	•	•	×	×	×	×	×	•	×	•	5	**ZOAG 187.90+03.46 (mis-ID?)**, v. red group in IR
06142+1439	06 17 04.6 +14 37 51	•	×	•	×	×	×	•	•	•	×	•	5	*by S267*, red group, some fuzz in opt
06244+0336	06 27 02.5 + 3 34 21	•	×	•	×	×	•	•	•	•	×	•	1	v. red star
06303+1021	06 33 04.4 +10 19 20	•	×	•	×	×	•	•	•	•	×	•	4	**NGC 2247 nebula**, sat in g, i, J, K. neb?
06323+0718	06 35 01.3 +07 15 57	•	×	•	×	×	•	•	•	•	×	•	5	m. red clump of stars
06351−0055	06 37 42.2 −00 58 36	×	×	×	×	×	•	•	•	×	×	×	7	**CPM 28** ,*by S283*, globules on DSS?
06384+0932	06 41 11.0 +09 29 31	•	×	•	×	×	•	•	•	•	×	•	3	**NGC 2264 IRS 1 yso**, *by S273*, 2-3 v. red stars, lots of neb.
06502−0040	06 52 45.0 −00 43 56	×	×	×	×	×	•	•	•	×	×	×	7	**ZOAG 213.73-00.04 (mis-ID?)** nothing obvious
06522−0350	06 54 45.0 −03 54 18	•	×	•	×	×	•	•	•	•	×	•	3	**ZOAG 216.79-01.04 (mis-ID?)**, *in G216-2.5*, red stars, neb
06535+0037	06 56 06.0 +00 33 51	•	×	•	×	×	•	•	•	×	×	×	2	**CPM 31 YSO, ZOAG 212.96+01.29**, m. red star, neb
06547−0105	06 57 17.9 −01 09 48	•	×	•	×	×	•	•	•	×	×	×	7	*in FT96 214.7+0.7*, nothing obvious
06548−0815	06 57 14.7 −08 19 54	×	×	×	×	×	•	•	•	×	×	×	3	**BFS 63**,*in FT96 220.9-2.5*, red stars, neb.
06567−0350	06 59 14.5 −03 54 51	×	×	×	×	×	•	•	•	×	×	×	1	**BFS 56**,*in FT96 217.4-0.1* v. red star, neb.
06568−1154	06 59 13.0 −11 58 56	×	×	×	×	×	•	•	•	×	×	×	1	**CMa West**

Table 1 continued: Transitional YSO Candidate IRAS Sources

IRAS ID	RA (J2000) DEC	g'	r'	i'	g	r	V	R	I	J	H	K	ID	notes
06584−0852	07 00 51.6 −08 56 28	×	×	×	×	×	•	•	•	×	×	×	1	**CPM 33 YSO**,*in FT96 221.9-2.0*, red stars, neb.
07166−1816	07 18 50.8 −18 22 11	×	×	×	×	×	•	•	•	×	×	×	2	some neb.
07183−2741	07 20 21.1 −27 47 02	×	×	×	×	×	•	×	•	×	×	×	2	**Bran 19** ,1 red star, some neb.
07221−2544	07 24 13.6 −25 50 03	×	×	×	×	×	•	•	•	×	×	×	2	*in Bran 23* ,1 red star, some neb. (emis?)
07254−2259	07 27 35.0 −23 05 25	×	×	×	×	×	•	•	•	×	×	×	2	some neb.
07466−2631	07 48 43.4 −26 39 29	×	×	×	×	×	•	•	•	×	×	×	2	some neb., spike from HD 63599
08100−3818	08 11 55.1 −38 27 54	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
08211−4158	08 22 52.3 −42 07 56	×	×	×	×	×	•	•	•	×	×	×	1	**HH obj**,*in vdB 15*, refl. neb.
08404−4033	08 42 17.1 −40 44 10	×	×	×	×	×	•	•	•	×	×	×	2	**ESO Hα 162**,*in BRAN 174*, refl. neb.
08474−4649	08 49 07.7 −47 00 23	×	×	×	×	×	•	•	•	×	×	×	3	*in BRAN 187*,3 red stars, ringlike neb.
08500−4254	08 51 49.2 −43 05 30	×	×	×	×	×	•	•	•	×	×	×	2	*in star forming region?*, red star, some faint neb.
08534−4301	08 55 13.9 −43 12 57	×	×	×	×	×	•	•	•	×	×	×	7	*in GUM 19?*, nothing obvious
09207−4757	09 22 30.8 −48 10 08	×	×	×	×	×	•	•	•	×	×	×	7	*in BRAN 259*, nothing obvious
10075−6647	10 08 50.5 −67 01 52	×	×	×	×	×	×	×	×	×	×	×	6	**IC 2554 galaxy**
10207+2007	10 23 30.4 +19 51 54	×	×	×	×	×	×	×	×	•	×	•	6	**NGC 3226, 3227 Seyfert 1**, clear spiral galaxy
10292−4148	10 31 23.3 −42 03 41	×	×	×	×	×	×	×	×	×	×	×	6	**SGC 102912-4148.2 galaxy**,
10381−5704	10 40 09.0 −57 20 03	×	×	×	×	×	•	•	•	×	×	×	2	1 red star, some neb.
10406−6253	10 42 28.3 −63 09 39	×	×	×	×	×	•	•	•	×	×	×	3	*in DCld 289.0-03.8*, sev. red stars, some faint neb.
11507−6213	11 53 12.8 −62 30 17	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
12190−6215	12 21 50.8 −62 31 42	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
12196−6300	12 22 23.8 −63 17 14	×	×	×	×	×	•	•	•	×	×	×	3	*in vdB 57*, sev. red stars, neb.
12389−6147	12 41 53.4 −62 04 06	×	×	×	×	×	•	•	•	×	×	×	3	*in DCld 302.0+00.8*, sev. red stars, neb.
12391−6156	12 42 07.8 −62 13 14	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
13168−6208	13 20 05.7 −62 24 02	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
13224−5928	13 25 40.6 −59 43 42	×	×	×	×	×	•	•	•	×	×	×	1	**YSO** ,*in DCld 307.3+02.9*,1 very red star, neb.
14047−6123	14 08 25.8 −61 37 40	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
14188+7148	14 19 26.6 +71 35 15	×	×	×	•	•	×	×	×	•	×	•	6	**NGC 5607, Mrk 286 galaxy**, obvious galaxy
14375−6052	14 41 25.4 −61 05 12	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
14454−4343	14 48 44.2 −43 55 41	×	×	×	×	×	•	•	•	×	×	×	6	**ESO 273-4 Seyfert 2**
14563−6301	15 00 24.9 −63 13 34	×	×	×	×	×	•	•	•	×	×	×	1	*in vdB 65*, 1 red star, neb.
15064−6429	15 10 40.9 −64 40 28	×	×	×	×	×	•	•	•	×	×	×	1	**NGC 5844, PK 317-5.1 PN** Plan. neb.
15365−5435	15 40 21.0 −54 45 00	×	×	×	×	×	×	•	•	×	×	×	1	red star with cometary neb.
15532−4210	15 56 42.5 −42 19 25	×	×	×	×	×	•	•	•	×	×	×	4	**HD 142527 HAeBe**
16017−3936	16 05 04.7 −39 45 03	×	×	×	×	×	•	•	•	×	×	×	7	*in BHR 126*, nothing obvious
16309−5758	16 35 13.0 −58 04 47	×	×	×	×	×	•	•	•	×	×	×	6	**ESO 137-34 Seyfert 2**
17199−3711	17 23 22.9 −37 13 47	×	×	×	×	×	•	•	•	×	×	×	7	nothing obvious
17340−3757	17 37 29.6 −37 59 22	×	×	×	×	×	•	•	•	×	×	×	1	v. red star, ext. emis. neb.
18018−2426	18 04 53.8 −24 26 40	×	×	×	•	•	•	•	•	•	×	•	1	**RAFGL 2059**, *in M8E region, by S25*, v. red star, ext. emis. neb
18064−2413	18 09 30.6 −24 12 33	×	×	×	•	•	•	•	•	•	•	•	3	**PK 6-2.1 PN mis-ID**, *by S29*, sev. stars, neb.
18361−0647	18 38 50.7 −06 44 53	×	×	×	•	•	•	•	×	×	×	×	7	*in L 495*, nothing obvious
18585−3701	19 01 55.3 −36 57 11	×	×	×	×	×	•	×	•	×	×	×	4	**R CrA HAeBe**, *in NGC 6729 dif. neb.*, v. lum. refl. neb.
19025+0739	19 04 60.0 +07 44 24	×	×	×	•	•	•	•	×	•	×	•	2	several red stars, no neb.
19050+0524	19 07 32.7 +05 29 41	×	×	×	•	•	×	×	×	•	×	•	2	*by S74*, sev. m. red stars, dark neb?
19111+0212	19 13 41.7 +02 17 39	×	×	×	×	×	×	×	×	×	×	×	4	**PK 37-3.3 symb**, bright star
19187+1556	19 20 58.2 +16 02 16	×	×	×	•	•	•	•	•	•	×	•	7	nothing obvious
19340+2228	19 36 09.6 +22 35 14	×	×	×	×	×	×	×	×	•	•	•	4	**HD 184961**, bright star
19348−0619	19 37 32.7 −06 13 05	×	×	×	•	•	•	•	•	×	×	×	6	probable galaxy with bright core
19365+2557	19 38 34.6 +26 04 47	×	×	×	•	•	×	×	×	•	•	•	2	1 red star, no neb, globule?
19520+2616	19 54 05.5 +26 24 28	×	×	×	•	•	×	×	×	•	•	•	5	some red stars
20024+3330	20 04 22.5 +33 38 58	×	×	×	•	•	×	×	×	•	•	•	1	**G070.7+01.2 (many IDs)**, Some controversy...
20049+3326	20 06 52.7 +33 34 46	×	×	×	•	•	×	×	×	•	•	•	5	*in LBN 162*, many red stars
20072+2720	20 09 20.1 +27 29 24	×	×	×	•	•	×	×	×	•	•	•	3	anon. dark cloud, v. red star, sev. red stars, neb.
20078+3528	20 09 44.7 +35 37 05	×	•	×	•	•	×	×	×	•	•	•	2	*in LBN 182*, diff. neb, sev. m. red stars
20172+3554	20 19 10.7 +36 03 54	×	×	×	•	•	×	×	×	•	•	•	2	1 v. red star, some m. red stars, no neb
20193+3448	20 21 18.7 +34 57 48	×	×	×	•	•	×	×	×	•	•	•	1	v. red star + neb.

Table 1 continued: Transitional YSO Candidate IRAS Sources

IRAS ID	RA (J2000) DEC	g'	r'	i'	g	r	V	R	I	J	H	K	ID	notes
20236+4058	20 25 27.8 +41 08 19	×	•	×	•	•	×	×	×	•	•	•	1	*in LBN 253*, v. red star + neb.
20337+4036	20 35 32.7 +40 46 33	×	•	×	•	•	×	×	×	•	•	•	1	*in LBN 271*, v. red star
20489+4410	20 50 43.2 +44 21 58	×	•	×	•	•	×	×	×	•	•	•	3	*in LBN 353*, lots of dark neb., refl neb, v. red stars
20496+4354	20 51 26.2 +44 05 22	×	•	×	•	•	×	×	×	•	•	•	3	*in LBN 343*, 2-3 v. red obj, refl. + emis. neb.
20582+7724	20 57 13.1 +77 35 46	×	•	×	•	•	×	×	×	•	•	•	1	*in L 1228*, dark neb., several red obj, neb
21004+7811	20 59 14.2 +78 23 00	×	•	×	•	•	×	×	×	•	•	•	3	**G82b 20**, dark neb, refl. neb, red stars
21351+5625	21 36 46.4 +56 38 56	×	×	×	•	•	×	×	×	•	•	•	5	**IC 1396**, red cluster
21485+5645	21 50 12.6 +56 59 23	×	×	×	•	•	×	×	×	•	•	•	5	**Trumpler 37**, red cluster
21569+5842	21 58 36.4 +58 57 08	×	×	×	•	•	×	×	×	•	•	•	1	*in L 1143*, v. red star, neb
22172+5549	22 19 09.0 +56 04 44	×	×	×	•	•	×	×	×	•	•	•	5	*in S132, LBN 473*, several red stars, lots of neb (emis?)
22206+6333	22 22 18.0 +63 48 51	×	×	×	•	•	×	×	×	•	•	•	2	*in L 1204*, some red stars
22299+6435	22 31 34.9 +64 50 46	×	×	×	•	•	×	×	×	•	•	•	7	*in LBN 520, by S150*, nothing obvious
23262+0314	23 28 47.0 +03 30 45	×	×	×	•	•	•	•	•	•	×	•	6	**NGC 7679 (galaxy pair)**, probable galaxy
23350+6413	23 37 24.5 +64 29 45	×	×	×	•	•	×	×	×	•	×	•	5	faint, red cluster
23395+6358	23 41 56.0 +64 15 09	×	×	×	•	•	×	×	×	•	•	•	1	a single v. red star